

**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 <u>X</u> Initial Annual Special			Test Date 10/28/2005		Well Number (API #) #329A (API # 30-039-29398)				
Completion Date 10/26/2005		Total Depth 3206'		Plug Back TD		Elevation 6318'		Unit Sec Twp Rng I 34 32N 06W	
Casing Size 7"		Weight 23#		Set At 2949'		Perforations:		County Rio Arriba	
Tubing Size 2 7/8"		Weight 6.5#		Set At 2936'		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"				325	70	775		0
1					275	70	650		0.5 hr
2					275	64	525		1.0 hr
3					50	64	445		1.5 hrs
4					45	55	325		2.0 hrs
5					40	55	325		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			52	1.0048	1.29	1.002	649
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 xxxxxxxxxxxx	
4					Critical Pressure _____ p.s.i.a.	_____ p.s.i.a.
5					Critical Temperature _____ R	_____ R

Pc	787	Pc2	619369
NO	Pt1	Pw	Pw2
1		337	113569
2			
3			
4			

(1) $\frac{Pc2}{Pc2 - Pw2} = \underline{1.2245334}$		(2) $\frac{Pc2^n}{Pc2 - Pw2} = \underline{1.164067}$	
AOF = Q $\frac{Pc2^n}{Pc2 - Pw2} = \underline{755}$			

Absolute Open Flow	755	Mcf/d @ 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:

