

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 7/17/2006		Well Number (API #) #272A (API # 30-039-29775)				
Completion Date 7/10/2006		Total Depth 3528'		Plug Back TD		Elevation 6588'		Unit Sec Twp Rng D 35 31N 05W	
Casing Size 7"		Weight 23#		d		Set At 3308'		Perforations:	
Tubing Size 2 7/8"		Weight 6.5#		d		Set At 3304'		Perforations:	
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.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"				360		165		0
1					10	68	65		0.5 hr
2					10	68	65		1.0 hr
3					5	68	50		1.5 hrs
4					5	68	50		2.0 hrs
5					5	72	45		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			17	0.9887	1.29	1.004	209
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	177	Pc2	31329			
NO	Ptl	Pw	Pw2	Pc2-Pw2	(1) $Pc2 = \frac{Pc2^n}{Pc2-Pw2}$	(2) $Pc2^n = \frac{Pc2^n}{Pc2-Pw2}$
1		57	3249	28080	$AOF = Q \frac{Pc2^n}{Pc2 - Pw2} = \underline{\underline{227}}$	1.0855806
2						
3						
4						

Absolute Open Flow 227		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:

