

**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 12/18/2005		Well Number (API #) #363A (API # 30-039-29527)				
Completion Date 9/27/2005		Total Depth 3274'		Plug Back TD		Elevation 6322'		Unit Sec Twp Rng I 17 31N 05W	
Casing Size 7"		Weight 23#		Set At 3233'		Perforations:		County Rio Arriba	
Tubing Size 2 7/8"		Weight 6.5#		Set At 3223'		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"			230	67	1100		0
1					220	67	1060		0.5 hr
2					220	60	1060		1.0 hr
3					190	60	940		1.5 hrs
4					285	52	940		2.0 hrs
5					285	52	890		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					297	1.0078	1.29	1.021	3786
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	1112	Pc2	1236544	
NO	Pt1	Pw	Pw2	Pc2-Pw2
1		902	813604	422940
2				
3				
4				

(1) $P_{c2} = \frac{2.9236866}{P_{c2}-P_{w2}}$		(2) $P_{c2}^n = \frac{2.235878}{P_{c2}-P_{w2}}$	
AOF = Q $\frac{P_{c2}^n}{P_{c2} - P_{w2}} = \mathbf{8465}$			

Absolute Open Flow	8465	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:

