

30-039-26960

**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 9/23/2004		Well Number #147B				
Completion Date 8/31/2004		Total Depth 8271'		Plug Back TD 8191'		Elevation 6513'		Unit Sec Twp Rng B 33 31N 5W	
Casing Size 3 1/2"		Weight 9.3#		Set At 8271'		Perforations: 8059' - 8124'		County Rio Arriba	
Tubing Size 2 1/16"		Weight 3.3#		Set At 8072'		Perforations: 8165' - 8198'		Pool Basin DK	
Type Well - Single-Bradenhead-GG or GO Multiple				Packer Set At 6200'		Formation DK			
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"			1915	80	920		0
1					282	62	920		0.5 hr
2					267	62	920		1.0 hr
3					2660	63	920		1.5 hrs
4					245	63	920		2.0 hrs
5					235	65	920		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				247	0.9952	1.29	1.024	3119
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	
4					Critical Pressure	p.s.i.a.
5					Critical Temperature	R

Pc 932	Pc2 868624					
NO	Pt1	Pw	Pw2	Pc2-Pw2	(1) $\frac{Pc2}{Pc2-Pw2} = \frac{\#DIV/0!}{\#DIV/0!}$	(2) $\frac{Pc2^n}{Pc2-Pw2} = \frac{\#DIV/0!}{\#DIV/0!}$
1		932	868624	0		
2						
3						
4						

Absolute Open Flow #DIV/0!		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: