

**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 9/25/2004		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: 5379' - 5797'		County Rio Arriba	
Tubing Size 2 1/16"		Weight 3.3#		Set At 6068'		Perforations: 5839' - 6094'		Pool Blanco MV	
Type Well - Single-Bradenhead-GG or GO Multiple					Packer Set At 6200'		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"				890	44	915		0
1					245	58	840		0.5 hr
2					238	60	820		1.0 hr
3					240	64	800		1.5 hrs
4					235	64	785		2.0 hrs
5					232	66	765		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		244	0.9943	1.29	1.024	3078		
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

NO	Pc	Pt1	Pw	Pw2	Pc2-Pw2	(1) $\frac{Pc2}{Pc2-Pw2} =$		(2) $\frac{Pc2^n}{Pc2-Pw2} =$	
1	927		777	603729	255600	3.362007		2.4828413	
2									
3									
4									

Absolute Open Flow 7642		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: