

30-039-27240

**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 12/12/2002		Well Number #32C				
Completion Date 11/25/2002		Total Depth 8355'		Plug Back TD 8341'		Elevation 6331'		Unit Sec Twp Rng F 21 31N 6W	
Casing Size 5 1/2"		Weight 17#		Set At 8190'		Perforations: 5380' - 5962'		County Rio Arriba	
Tubing Size 2 1/16"		Weight 3.25#		Set At 6269'		Perforations: 5993' - 6276'		Pool Blanco	
Type Well - Single-Bradenhead-GG or GO Multiple				Packer Set At 6390'		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"			975	46	975		0
1					235	56	895		0.5 hr
2					220	57	955		1.0 hr
3					215	59	830		1.5 hrs
4					205	58	815		2.0 hrs
5					210	61	780		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		222	0.9990	1.29	1.021	2805		
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	987		792	627264	346905	2.8081723		2.169291	
2									
3									
4									

Absolute Open Flow 6086		Mcf/d @ 15.025	Angle of Slope _____	Slope, n 0.75
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Remarks:			
Approved By Commission:	Conducted By: Larry Higgins	Calculated By: Tracy Ross	Checked By: