

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 12/10/2002		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: 8188' - 8296'		County Rio Arriba	
Tubing Size 2 1/16"		Weight 3.25#		Set At 8247'		Perforations:		Pool Basin	
Type Well - Single-Bradenhead-GG or GO Multiple				Packer Set At 6390'		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"			1480	33	975		0
1					125	62	975		0.5 hr
2					85	60	975		1.0 hr
3					65	60	975		1.5 hrs
4					60	60	975		2.0 hrs
5					45	58	975		3.0 hrs

RATE OF FLOW CALCULATION									
NO	coefficient	hwPm	Pressure Pm	Flow Temp. Factor Fl	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd		
1	9.604		57	1.0019	1.29	1.006	712		
2									
3									
4									

NO	Pr	Temp. oR	Tr	Z	Gas Liquid Hydrocarbon Ration	Mcf/bbl. Deq.
1					A.P.I Gravity of Liquid Hydrocabrons _____	
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	Pt1	Pw	Pw2	Pc2-Pw2	(1) $\frac{Pc2}{Pc2-Pw2} =$	(2) $\frac{Pc2^n}{Pc2-Pw2} =$
987		974169		0	#DIV/0!	#DIV/0!
1		987	974169	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: Larry Higgins	Calculated By: Tracy Ross	Checked By: