

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 8/28/2002		Well Number #34C		
Completion Date 8/23/2002		Total Depth 6150'		Plug Back TD 6128'		Elevation 6441'	
Casing Size 4 1/2"		Weight 10.5#		Set At 6148'		Perforations: 5459' - 5687'	
Tubing Size 2 3/8"		Weight 4.7#		Set At 5941'		Perforations: 5710' - 5996'	
Type Well - Single-Bradenhead-GG or GO Multiple				Packer Set At		Formation MV	
Producing Thru Tubing		Reservoir Temp. oF		Mean Annual Temp. oF		Barometer Pressure - Pa	
Connection		L		H		Gq	
Meter Run		Taps		Prover 3/4"		Connection	
County Rio Arriba		Pool Basin		Formation MV			
Gq 0.6		%CO2		%N2		%H2S	

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
SI	2" X 3/4"				800	78	835	
1					290	66	760	0.5 hr
2					285	69	735	1.0 hr
3					280	72	720	1.5 hrs
4					275	72	705	2.0 hrs
5					270	73	680	3.0 hrs

RATE OF FLOW CALCULATION										
NO	Coefficient (24 Hours)				hwPm	Pressure Pm	Flow Temp. Factor Fl	Gravity Factor Fq	Super Compress. Factor, Fpv	Rate of Flow Q,Mcf/d
1	9.604					282	0.9877	1.29	1.033	3565
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	847	Pc2	717409	
NO	Pt1	Pw	Pw2	Pc2-Pw2
1		692	478864	238545
2				
3				
4				
(1) $Pc2 = 3.0074368$ $Pc2 - Pw2$ (2) $Pc2^n = 2.2837438$ $Pc2 - Pw2$				
AOF = Q $Pc2^n = 8141$ $Pc2 - Pw2$				
Absolute Open Flow		8141		Mcf @ 15.025
Angle of Slope		Slope, n 0.75		

Remarks:			
Approved By Commission:	Conducted By: Larry Higgins	Calculated By: Tracy Ross	Checked By: