

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 12/11/2004		Well Number #23C (API #30-039-27609)				
Completion Date 11/24/2004		Total Depth 8090'		Plug Back TD 8085'		Elevation 6399'		Unit Sec Twp Rng L 29 31N 5W	
Casing Size 5-1/2"		Weight 17#		Set At 8090'		Perforations: 5209' - 5600'		County Rio Arriba	
Tubing Size 2-1/16"		Weight 3.25#		Set At 5864'		Perforations: 5666' - 5866'		Pool Blanco	
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 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.g.	Temperature oF	Pressure p.s.i.g.	Temperature oF	Pressure p.s.i.g.	Temperature oF	Duration of Flow
SI		2" X 3/4"			905	35	1255		0
1					238	57	1255		0.5 hr
2					225	57	1270		1.0 hr
3					227	62	1272		1.5 hrs
4					225	64	1280		2.0 hrs
5					225	69	1280		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					237	0.9915	1.29	1.023	2978
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	1267		1292	1669264	-63975	-25.092442	#NUM!
2							
3							
4							

Absolute Open Flow #NUM!		Mcf @ 15.025	Angle of Slope _____	Slope, n 0.75
---------------------------------	--	--------------	----------------------	----------------------

Remarks:			
Approved By Commission: 	Conducted By: Bill Beevers/Michael Gurule	Calculated By: Tracy Ross	Checked By: