

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 8/9/2002		Well Number #79B				
Completion Date 7/22/2002		Total Depth 7955'		Plug Back TD 7943'		Elevation 6269'		Unit Sec Twp Rng C 22 31N 6W	
Casing Size 5-1/2"		Weight 17#		Set At 7955'		Perforations: 5066' - 5509'		County Rio Arriba	
Tubing Size 2-1/16"		Weight 3.25#		Set At 5977'		Perforations: 5562' - 5783'		Pool Blanco MV	
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.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"				1000	80	1005		0
1					275	59	940		0.5 hr
2					265	60	920		1.0 hr
3					270	63	905		1.5 hrs
4					275	67	890		2.0 hrs
5					270	71	870		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, Mcfd
1	9.604					282	0.9896	1.29	1.034	3575
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 _____				XXXXXXX
3					Specific Gravity Flowing Fluid xxxxxxxxxxxx				
4					Critical Pressure _____ p.s.i.a.				____ p.s.i.a.
5					Critical Temperature _____ R				____ R

Pc	1017	Pc2	1034289	
NO	Pt1	Pw	Pw2	Pc2-Pw2
1		882	777924	256365
2				
3				
4				

Absolute Open Flow 10177		Mcf @ 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: