

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 9/21/2000		Well Number #168A		
Completion Date 9/12/2000		Total Depth 6572'		Plug Back TD 6450'		Elevation 6784'	
Casing Size 4-1/2"		Weight 10.5#	d	Set At 6571'	Perforations: 4916' - 5950'		County Rio Arriba
Tubing Size 2-3/8"		Weight 4.7#	d	Set At 6299'	Perforations: 6095' - 6339'		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"				1150	80	1150		0
1					345	60	885		0.5 hr
2					300	62	835		1.0 hr
3					295	64	790		1.5 hrs
4					290	66	780		2.0 hrs
5					255	70	740		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					267	0.9905	1.29	1.034	3388
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	1162	Pc2	1350244	
NO	Pt1	Pw	Pw2	Pc2-Pw2
1		752	565504	784740
2				
3				
4				
Absolute Open Flow		5090	Mcf @ 15.025	Angle of Slope _____
				Slope, n 0.75
Remarks:				
Approved By Commission:		Conducted By: Mark Lepich		Calculated By: Tracy Ross
				Checked By: David Spitz