

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 8/15/2002		Well Number #24C				
Completion Date 8/5/2002		Total Depth 8145'		Plug Back TD 8134'		Elevation 6500'		Unit Sec Twp Rng C 32 31N 5W	
Casing Size 5 1/2"		Weight 17#		Set At 8146'		Perforations: 4735' - 5728'		County Rio Arriba	
Tubing Size 2 1/16"		Weight 3.25#		Set At 5956'		Perforations: 5769' - 5998'		Pool Basin	
Type Well - Single-Bradenhead-GG or GO Multiple					Packer Set At 6100'		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"				1040	96	1040		0
1					235	63	995		0.5 hr
2					215	67	985		1.0 hr
3					235	68	970		1.5 hrs
4					235	69	965		2.0 hrs
5					205	70	950		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				217	0.9905	1.29	1.028	2737
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	1052	Pc2	1106704
NO	Pt1	Pw	Pw2
1		962	925444
2			
3			
4			

(1) Pc2 = 6.1056162		(2) Pc2^n = 3.8841601	
Pc2-Pw2		Pc2-Pw2	
AOF = Q		Pc2^n = 10633	
		Pc2 - Pw2	

Absolute Open Flow 10633		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: