

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 10/31/2002		Well Number #41B				
Completion Date 10/9/2002		Total Depth 8484'		Plug Back TD 8457'		Elevation 6416'		Unit Sec Twp Rng A 06 31N 5W	
Casing Size 5 1/2"		Weight 17#		Set At 8481'		Perforations: 5649' - 6071'		County Rio Arriba	
Tubing Size 2 1/16"		Weight 3.25#		Set At 6408'		Perforations: 6094' - 6425'		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"				860	59	860		0
1					190	58	830		0.5 hr
2					185	60	815		1.0 hr
3					200	61	805		1.5 hrs
4					215	61	795		2.0 hrs
5					190	63	750		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			202	0.9971	1.29	1.020	2545
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 xxxxxxxxxx	
4					Critical Pressure _____ p.s.i.a.	_____ p.s.i.a.
5					Critical Temperature _____ R	_____ R

Pc	872	Pc2	760384	
NO	Pt1	Pw	Pw2	Pc2-Pw2
1		762	580644	179740
2				
3				
4				

Absolute Open Flow 7508		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: