

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 9/9/2001		Well Number #91C				
Completion Date 8/30/2002		Total Depth 6081'		Plug Back TD 6056'		Elevation 6354'		Unit Sec Twp Rng G 35 32N 6W	
Casing Size 4 1/2"		Weight 10.5#		Set At 6078'		Perforations: 4804' - 5599'		County Rio Arriba	
Tubing Size 2 3/8"		Weight 4.7#		Set At 5877'		Perforations: 5625' - 5949'		Pool Basin	
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"				905	79	965		0
1					255	62	925		0.5 hr
2					255	64	910		1.0 hr
3					250	66	895		1.5 hrs
4					250	67	885		2.0 hrs
5					245	68	870		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				257	0.9924	1.29	1.023	3232
2									
3									
4									

NO	Pr	Temp. oR	Tr	Z	Gas Liquid Hydrocarbon Ratio	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	977	Pc2	954529	
NO	Pt1	Pw	Pw2	Pc2-Pw2
1		882	777924	176605
2				
3				
4				

Absolute Open Flow 11458		Mcf @ 15.025	Angle of Slope _____	Slope, n 0.75
---------------------------------	--	--------------	----------------------	----------------------

Remarks:			
Approved By Commission:	Conducted By: Larry Higgins	Calculated By: Tracy Ross	Checked By: