

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 1/4/2002		Well Number #8B				
Completion Date 12/8/2001		Total Depth 7957'		Plug Back TD 7932'		Elevation 6311'		Unit Sec Twp Rng F 26 31N 6W	
Casing Size 5 1/2"		Weight 17#		Set At 7955'		Perforations: 4986' - 5532'		County Rio Arriba	
Tubing Size 2 1/16"		Weight 3.25#		Set At 5834'		Perforations: 5584' - 5874'		Pool Blanco MV	
Type Well - Single-Bradenhead-GG or GO Multiple					Packer Set At 6035'		Formation MV		
Producing Thru Tubing		Reservoir Temp. oF		Mean Annual Temp. oF		Barometer Pressure - Pa		Connection	
I. 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
SI	2" X 3/4"				1020	17	1020	
1					290	56	940	0.5 hr
2					290	59	905	1.0 hr
3					285	61	880	1.5 hrs
4					280	63	865	2.0 hrs
5					275	64	840	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.Mcf/d
1	9.604			287	0.9924	1.29	1.029	3631
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	Pt1	Pw	Pw2	Pc2-Pw2	(1) Pc2 =	(2) Pc2^n =
1032					3.140552	2.3591442
		852	725904	339120	Pc2-Pw2	Pc2-Pw2

Absolute Open Flow		Mcf/d @ 15.025	Angle of Slope	Slope, n
8566				0.75

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