

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 12/20/2001		Well Number #12B				
Completion Date 11/30/2001		Total Depth 7845'		Plug Back TD 7820'		Elevation 6144'		Unit Sec Twp Rng P 15 31N 6W	
Casing Size 5 1/2"		Weight 17#		Set At 7845'		Perforations: 4968' - 5384'		County Rio Arriba	
Tubing Size 2 1/16"		Weight 3.25#		Set At 5481'		Perforations: 5460' - 5662'		Pool Blanco MV	
Type Well - Single-Bradenhead-GG or GO Multiple					Packer Set At 5800'		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"				775	46	925		0
1					280	61	850		0.5 hr
2					270	63	815		1.0 hr
3					265	65	795		1.5 hrs
4					260	66	780		2.0 hrs
5					250	68	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				262	0.9924	1.29	1.029	3315
2									
3									
4									

NO	Pr	Temp. oR	Tr	Z	Gas Liquid Hydrocarbon Ration	Mcf/bbl. Deq.
1					A.P.I Gravity of Liquid Hydrocabrons _____	XXXXXX
2					Specific Gravity Separator _____	
3					Specific Gravity Flowing Fluid xxxxxxxxxxxx	
4					Critical Pressure _____ p.s.i.a.	
5					Critical Temperature _____ R	

Pc	937	Pc2	877969
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NO	Pt1	Pw	Pw2	Pc2-Pw2	(1) $\frac{Pc2}{Pc2-Pw2} = \underline{2.9528933}$	(2) $\frac{Pc2^n}{Pc2-Pw2} = \underline{2.252609}$
1		762	580644	297325		
2						
3						
4						

Absolute Open Flow 7467		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: