

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'	
Casing Size 5 1/2"		Weight 17#		Set At 8146'		Perforations: 4735' - 5728'	
Tubing Size 2 1/16"		Weight 3.25#		Set At 5956'		Perforations: 5769' - 5998'	
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	
%		CO2		N2		H2S	
Prover		Meter Run		Taps			
3/4"							

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"			1040	96	1040	
1					235	63	995	0
2					215	67	985	0.5 hr
3					235	68	970	1.0 hr
4					235	69	965	1.5 hrs
5					205	70	950	2.0 hrs
								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 _____	XXXXXX
3					Specific Gravity Flowing Fluid xxxxxxxxxx	
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) $\frac{Pc2}{Pc2 - Pw2} =$ 6.1056162		(2) $\frac{Pc2^n}{Pc2 - Pw2} =$ 3.8841601	
AOF = Q $\frac{Pc2^n}{Pc2 - Pw2} =$ 10633			

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: