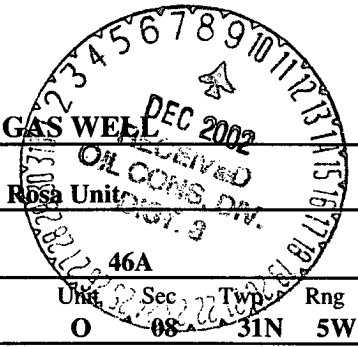


30-039-26391

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 11/21/2002		Well Number 46A		
Completion Date 11/6/2002		Total Depth 8123'		Plug Back TD 8079'		Elevation 6191'	
Casing Size 5 1/2"		Weight 17#		Set At 8123'		Perforations: 5220' - 5733'	
Tubing Size 2 1/16"		Weight 3.25#		Set At 6052'		Perforations: 5753' - 6088'	
Type Well - Single-Bradenhead-GG or GO Multiple				Packer Set At 6250'		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"			1050	32	1450		0
1					250	60	1450		0.5 hr
2					235	60	1450		1.0 hr
3					240	61	1450		1.5 hrs
4					240	64	1450		2.0 hrs
5					250	61	1450		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	0.9990	1.29	1.025	3324
2							
3							
4							

NO	Pr	Temp. oR	Tr	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1					A.P.I Gravity of Liquid Hydrocarbons _____	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	1462	Pc2	2137444		
NO	Pt1	Pw	Pw2	Pc2-Pw2	
1		1462	2137444	0	(1) $\frac{Pc2}{Pc2-Pw2} = \frac{\#DIV/0!}{\#DIV/0!}$
2					(2) $\frac{Pc2^n}{Pc2-Pw2} = \frac{\#DIV/0!}{\#DIV/0!}$
3					
4					AOF = Q $\frac{Pc2^n}{Pc2-Pw2} = \frac{\#DIV/0!}{\#DIV/0!}$

Absolute Open Flow	#DIV/0!	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: