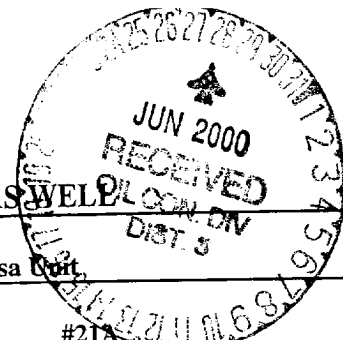


NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELLS



Operator Williams Production Company				Lease or Unit Name Rosa Unit			
Test Type X Initial Annual Special			Test Date 6/23/2000		Well Number #21A		
Completion Date 6/13/2000		Total Depth 6047'		Plug Back TD 6000'		Elevation 6281'	
Casing Size		Weight d		Set At		Perforations:	
Tubing Size		Weight d		Set At		Perforations:	
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		Prover 3/4"		Meter Run		Taps	
L	H	Gq 0.6	%CO2	%N2	%H2S		

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"				587	90	865	0
1					265	67	815	0.5 hr
2					265	68	745	1.0 hr
3					260	69	715	1.5 hrs
4					250	69	685	2.0 hrs
5					242	70	651	3.0 hrs

RATE OF FLOW CALCULATION							
NO	Coefficient (24 Hours)	hwPm	Pressure Pm	Flow Temp. Factor Fl	Gravity Factor Fq	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	9.604		254	0.9905	1.29	1.034	3223
2							
3							
4							

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

Pc	877	Pc2	769129	
NO	Pt1	Pw	Pw2	Pc2-Pw2
1		663	439569	329560
2				
3				
4				
(1) $\frac{Pc2}{Pc2-Pw2} = \underline{2.3338057}$ (2) $\frac{Pc2^n}{Pc2-Pw2} = \underline{1.8882023}$				
AOE = Q $\frac{Pc2^n}{Pc2 - Pw2} = \underline{6086}$				
Absolute Open Flow		6086	Mcf @ 15.025	Angle of Slope _____
				Slope, n 0.75

Remarks:			
Approved By Commission:	Conducted By: Mark Lepich	Calculated By: Tracy Ross	Checked By: David Spitz