

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 1/2/2002		Well Number #8B				
Completion Date 12/8/2001		Total Depth 7957'		Plug Back TD 7932'		Elevation 6311'		Unit Sec Twp Rng P 15 31N 6W	
Casing Size 5 1/2"		Weight 17#		Set At 7955'		Perforations: 7805' - 7940'		County Rio Arriba	
Tubing Size 2 1/16"		Weight 3.25#		Set At 7860'		Perforations:		Pool Basin	
Type Well - Single-Bradenhead-GG or GO Multiple					Packer Set At 6035'		Formation DK		
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
Sl	2" X 3/4"				1520	31	1010		0
1					280	101	1020		0.5 hr
2					200	98	1020		1.0 hr
3					155	97	1020		1.5 hrs
4					135	95	1020		2.0 hrs
5					90	76	1020		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		102	1.0000	1.29	1.007	1273
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	1022	Pc2	1044484	
NO	Pt1	Pw	Pw2	Pc2-Pw2
1		1032	1065024	-20540
2				
3				
4				

(1) $\frac{Pc2}{Pc2-Pw2} = \underline{\underline{-50.851217}}$ (2) $\frac{Pc2^n}{Pc2-Pw2} = \underline{\underline{\#NUM!}}$

AOF = Q $\frac{Pc2^n}{Pc2 - Pw2} = \underline{\underline{\#NUM!}}$

Absolute Open Flow	#NUM!	Mcf @ 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:
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