

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 8/9/2002		Well Number #79B				
Completion Date 7/22/2002		Total Depth 7955'		Plug Back TD 7943'		Elevation 6269'		Unit Sec Twp Rng C 22 31N 6W	
Casing Size 5-1/2"		Weight 17#		Set At 7955'		Perforations: 7822' - 7880'		County Rio Arriba	
Tubing Size 2-1/16"		Weight 3.25#		Set At 7859'		Perforations:		Pool Basin DK	
Type Well - Single-Bradenhead-GG or GO Multiple					Packer Set At		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
SI	2" X 3/4"				1840	75	995	
1					235	68	1000	0.5 hr
2					200	68	1000	1.0 hr
3					175	68	1000	1.5 hrs
4					160	68	1000	2.0 hrs
5					140	67	1005	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					152	0.9933	1.29	1.019	1906
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	1007	Pc2	1014049	
NO	Pt1	Pw	Pw2	Pc2-Pw2
1		1017	1034289	-20240
2				
3				
4				

(1) $\frac{Pc2}{Pc2-Pw2} = -50.101235$		(2) $\frac{Pc2^n}{Pc2-Pw2} = \#NUM!$	
AOF = Q $\frac{Pc2^n}{Pc2 - Pw2} = \#NUM!$			

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: