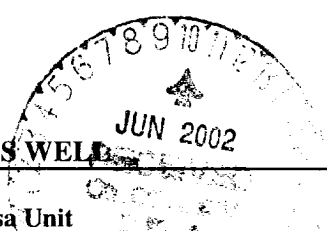


NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELLS



Operator Williams Production Company					Lease or Unit Name Rosa Unit				
Test Type X Initial Annual Special			Test Date 6/4/2002		Well Number #167B				
Completion Date 5/23/2002		Total Depth 7897'		Plug Back TD 7885'		Elevation 6219'		Unit Sec Twp Rng B 08 31N 6W	
Casing Size 5 1/2"		Weight 17#		Set At 7897'		Perforations: 7716' - 7839'		County San Juan	
Tubing Size 2 1/16"		Weight 3.25#		Set At 7809'		Perforations:		Pool Basin DK	
Type Well - Single-Bradenhead-GG or GO Multiple				Packer Set At 5893'		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
SI	2" X 3/4"				2645	84	990		0
1					320	62	990		0.5 hr
2					240	67	995		1.0 hr
3					195	68	995		1.5 hrs
4					165	70	995		2.0 hrs
5					130	70	995		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				142	0.9905	1.29	1.016	1770
2									
3									
4									

NO	Pr	Temp. oR	Tr	Z	Gas Liquid Hydrocarbon Ration	Mcf/bbl. Deq.
1					A.P.I Gravity of Liquid Hydrocabrons _____	
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	1002	Pc2	1004004
NO	Pt1	Pw	Pw2
1		1007	1014049
2			
3			
4			

Pc2-Pw2 (1) $\frac{Pc2}{Pc2-Pw2} = \underline{\underline{-99.950622}}$ (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: