

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 9/11/2006		Well Number #147C (API # 30-039-29844)				
Completion Date 8/14/2006		Total Depth 6249'		Plug Back TD		Elevation 6475'		Unit Sec Twp Rng D 33 31N 5W	
Casing Size 4-1/2"		Weight 10.5#		Set At 6249'		Perforations: 5303' - 5628'		County Rio Arriba	
Tubing Size 2-3/8"		Weight 4.7#		Set At 6117'		Perforations: 5712' - 6088'		Pool Blanco MV	
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
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.g	Temperature oF	Pressure p.s.i.g	Temperature oF	Pressure p.s.i.g	Temperature oF	Duration of Flow
SI	2" X 3/4"				652		1048		0
1					357	63	867		0.5 hr
2					314	66	785		1.0 hr
3					279	66	746		1.5 hrs
4					263	67	716		2.0 hrs
5					238	67	677		3.0 hrs

RATE OF FLOW CALCULATION								
NO	Coefficient (24 Hours)	hwPm	Pressure Pm	Flow Temp. Factor F1	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd	
1	9.604		250	0.9933	1.29	1.030	3169	
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	1060	Pc2	1123600	
NO	Pt1	Pw	Pw2	Pc2-Pw2
1		689	474721	648879
2				
3				
4				

(1) $\frac{Pc2}{Pc2 - Pw2} = \underline{\underline{1.7316017}}$		(2) $\frac{Pc2^n}{Pc2 - Pw2} = \underline{\underline{1.50951}}$	
AOF = Q $\frac{Pc2^n}{Pc2 - Pw2} = \underline{\underline{4783}}$			

Absolute Open Flow 4783		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:

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