

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 8/18/2006		Well Number (API #) #160C (API # 30-039-29778)				
Completion Date 7/30/2006		Total Depth 6122'		Plug Back TD 6093'		Elevation 6419'		Unit Sec Twp Rng J 25 31N 6W	
Casing Size 4 1/2"		Weight 10.5#		Set At 6121'		Perforations: 5176' - 5620'		County Rio Arriba	
Tubing Size 2-3/8"		Weight 4.7#		Set At 5956'		Perforations: 5650' - 5946'		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"				543	78	888		0
1					275	62	786		0.5 hr
2					250	62	745		1.0 hr
3					238	64	710		1.5 hrs
4					237	65	679		2.0 hrs
5					227	66	649		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		239	0.9943	1.29	1.024	3015	
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	900	Pc2	810000
NO	Ptl	Pw	Pw2
1		661	436921
2			
3			
4			

(1) $Pc2 = \frac{2.1711219}{Pc2-Pw2}$		(2) $Pc2^n = \frac{1.7885997}{Pc2-Pw2}$	
$AOF = Q \frac{Pc2^n}{Pc2 - Pw2} = \underline{\underline{5392}}$			

Absolute Open Flow	5392	Mcf/d @ 15.025	Angle of Slope _____	Slope, n	0.75
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Remarks:			
Approved By Commission:	Conducted By: Bill Beevers	Calculated By: Tracy Ross	Checked By:

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