

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

NOV 15 06
OIL CON. DIV.
6:15 PM

Operator Williams Production Company					Lease or Unit Name Rosa Unit				
Test Type X Initial Annual Special			Test Date 10/26/2006		Well Number (API #) #181B (API # 30-039-29901)				
Completion Date 10/10/2006		Total Depth 6420'		Plug Back TD 6398'		Elevation 6263'		Unit Sec Twp Rng K 11 31N 6W	
Casing Size 4 1/2"		Weight 10.5#		Set At 6415'		Perforations: 5464' - 5878'		County Rio Arriba	
Tubing Size 2-3/8"		Weight 4.7#		Set At 6344'		Perforations: 5916' - 6308'		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.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"			720	58	810		0
1					245	58	695		0.5 hr
2					233	58	645		1.0 hr
3					220	58	610		1.5 hrs
4					210	58	595		2.0 hrs
5					200	58	575		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				212	1.0019	1.29	1.017	2676
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	822	Pc2	675684	
NO	Pt1	Pw	Pw2	Pc2-Pw2
1		587	344569	331115
2				
3				
4				

(1) $Pc2 = 2.0406324$		(2) $Pc2^n = 1.707354$	
$Pc2 - Pw2$		$Pc2 - Pw2$	
AOF = Q $Pc2^n = 4569$			
$Pc2 - Pw2$			

Absolute Open Flow 4569		Mcf @ 15.025	Angle of Slope _____	Slope, n 0.75
--------------------------------	--	--------------	----------------------	----------------------

Remarks:			
Approved By Commission:	Conducted By: Sherry Brooks	Calculated By: Tracy Ross	Checked By:

B 11/15