

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 7/25/2005		Well Number (API #) #233A (API # 30-039-29501)				
Completion Date 7/21/2005		Total Depth 3331'		Plug Back TD		Elevation 6398'		Unit Sec Twp Rng J 30 31N 05W	
Casing Size 5 1/2"		Weight 17#		Set At 3317'		Perforations: 3156' - 3304'		County Rio Arriba	
Tubing Size 2 7/8"		Weight 6.5#		Set At 3308'		Perforations:		Pool Basin	
Type Well - Single-Bradenhead-GG or GO Multiple					Packer Set At		Formation Fruitland Coal		
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"				270	69	1220		0
1					260	69	1180		0.5 hr
2					260	62	1180		1.0 hr
3					230	62	1060		1.5 hrs
4					225	54	1060		2.0 hrs
5					225	54	1010		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					237	1.0058	1.29	1.018	3006
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	1232	Pc2	1517824	
NO	Pt1	Pw	Pw2	Pc2-Pw2
1		1022	1044484	473340
2				
3				
4				

(1) $Pc2 = 3.2066253$		(2) $Pc2^n = 2.3962722$	
$Pc2 - Pw2$		$Pc2 - Pw2$	
AOF = Q $\frac{Pc2^n}{Pc2 - Pw2} = 7204$			

Absolute Open Flow 7204		Mcf/d @ 15.025	Angle of Slope _____	Slope, n 0.75
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Remarks:			
Approved By Commission:	Conducted By: Mark Lepich	Calculated By: Tracy Ross	Checked By:

