

**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 11/15/2005		Well Number #14B (API # 30-039-26945)				
Completion Date 11/9/2005		Total Depth 7945'		Plug Back TD 7935'		Elevation 6285'		Unit Sec Twp Rng O 23 31N 6W	
Casing Size 3 1/2"		Weight 9.3#		Set At 7941'		Perforations: 7766' - 7901'		County Rio Arriba	
Tubing Size 2 1/16"		Weight 3.25#		Set At 7857'		Perforations:		Pool Basin DK	
Type Well - Single-Bradenhead-GG or GO Multiple					Packer Set At 5921'		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"				1675	57	940		0
1					230	60	940		0.5 hr
2					165	61	940		1.0 hr
3					130	62	940		1.5 hrs
4					105	62	945		2.0 hrs
5					80	63	945		3.0 hrs

RATE OF FLOW CALCULATION									
NO	Coefficient (24 Hours)	Pressure Pm	Flow Temp. Factor Fl	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd			
1	9.604	92	0.9971	1.29	1.007	1144			
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 _____	XXXXXXX
3					Specific Gravity Flowing Fluid XXXXXXXXXX	
4					Critical Pressure _____ p.s.i.a.	_____ p.s.i.a.
5					Critical Temperature _____ R	_____ R

Pc	952	Pc2	906304
NO	Pt1	Pw	Pw2
1		957	915849
2			
3			
4			

(1) $P_{c2} = \frac{P_{c2} - P_{w2}}{P_{c2} - P_{w2}} = \mathbf{-94.950655}$		(2) $P_{c2}^n = \frac{P_{c2}^n - P_{w2}^n}{P_{c2} - P_{w2}} = \mathbf{\#NUM!}$	
AOF = Q $\frac{P_{c2}^n}{P_{c2} - P_{w2}} = \mathbf{\#NUM!}$			

Absolute Open Flow	#NUM!	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: