

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 11/20/2005		Well Number #379A (30-039-27843)				
Completion Date 11/17/2005		Total Depth 3186'		Plug Back TD		Elevation 6258'		Unit Sec Twp Rng N 08 31N 5W	
Casing Size 5-1/2"		Weight 17#		Set At 3184'		Perforations: 2965' - 3090'		County RIO ARRIBA	
Tubing Size 2-7/8"		Weight 6.5#		Set At 3109'		Perforations:		Pool BASIN	
Type Well - Single-Bradenhead-GG or GO Multiple					Packer Set At		Formation FT		
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"			315		185		0
1					18	72	72		0.5 hr
2					15	74	64		1.0 hr
3					11	75	55		1.5 hrs
4					9	75	43		2.0 hrs
5					7	79	38		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				19	0.9822	1.29	1.004	232
2									
3									
4									
NO	Pr	Temp. oR	Tr	Z	Gas Liquid Hydrocarbon Ration A.P.I Gravity of Liquid Hydrocabrons _____ Specific Gravity Separator _____ Specific Gravity Flowing Fluid xxxxxxxxxx Critical Pressure _____ p.s.i.a. Critical Temperature _____ R				Mcf/bbl. Deq. XXXXXX _____ p.s.i.a. _____ R
Pc	197	Pc ²	38809						
NO	Pt1	Pw	Pw ²	Pc ² -Pw ²	(1) $\frac{Pc^2}{Pc^2 - Pw^2} = \underline{1.0688535}$				(2) $\frac{Pc^{2.9n}}{Pc^2 - Pw^2} = \underline{1.0512}$
1		50	2500	36309					
2									
3									
4									
Absolute Open Flow					244	Mcf/d @ 15.025		Angle of Slope _____	Slope, n 0.75

Remarks:

Approved By Commission:	Conducted By: Mark Lepich	Calculated By: Tracy Ross	Checked By:
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