

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 10/23/2000		Well Number #341				
Completion Date 10/20/2000		Total Depth 3588'		Plug Back TD 3530'		Elevation 6411'		Unit Sec Twp Rng 16 31N 6W	
Casing Size 5 1/2"		Weight 17#		Set At 3560'		Perforations: 3466' - 3560'		County San Juan	
Tubing Size 2-7/8"		Weight 6.7#		Set At 3533'		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"				640		1210		0
1					230	64	805		0.5 hr
2					205	66	600		1.0 hr
3					176	68	405		1.5 hrs
4					143	69	382		2.0 hrs
5					110	70	360		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					122	0.9905	1.29	1.016	1521
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	1222		Pc ²	1493284						
NO	Pt1	Pw	Pw ²	Pc ² -Pw ²	(1) $\frac{Pc^2}{Pc^2 - Pw^2} =$ 1.102136					(2) $\frac{Pc^{2.75}}{Pc^{2.75} - Pw^{2.75}} =$ 1.0757
1		372	138384	1354900						
2										
3										
4										
Absolute Open Flow 1636					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: Stergie Katirgis