

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 11/16/2000		Well Number #183				
Completion Date 11/10/2000		Total Depth 6113'		Plug Back TD 6088'		Elevation 6357'		Unit Sec Twp Rng G 19 31N 5W	
Casing Size 4 1/2"		Weight 10.5#		Set At 6113'		Perforations 4272' - 5614'		County Rio Arriba	
Tubing Size 2-3/8"		Weight 4.7#		Set At 5949'		Perforations 5665' - 5983'		Pool Blanco MV	
Type Well - Single-Bradenhead-GG or GO Multiple					Packer Set At 5949'		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"			678	42	1072		0
1					294	62	981		0.5 hr
2					291	63	929		1.0 hr
3					284	65	894		1.5 hrs
4					277	66	859		2.0 hrs
5					264	67	808		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					276	0.9933	1.29	1.030	3498
2										
3										
4										

NO	Pr	Temp. oR	Tr	Z	Gas Liquid Hydrocarbon Ratio	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	1084	Pc2	1175056	
NO	Pt1	Pw	Pw2	Pc2-Pw2
1		820	672400	502656
2				
3				
4				

Absolute Open Flow 6614		Mcf/d @ 15.025	Angle of Slope _____	Slope, n 0.75
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Remarks:			
Approved By Commission:	Conducted By: Matt Crane	Calculated By: Tracy Ross	Checked By: David Spitz