

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 10/24/2000		Well Number #163				
Completion Date 10/20/2000		Total Depth 6020'		Plug Back TD 5994'		Elevation 6248'		Unit Sec Twp Rng G 24 31N 6W	
Casing Size 4 1/2"		Weight 10.5#		Set At 6020'		Perforations: 5018' - 5517'		County Rio Arriba	
Tubing Size 2-3/8"		Weight 4.7#		Set At 5849'		Perforations: 5564' - 5898'		Pool Blanco MV	
Type Well - Single-Bradenhead-GG or GO Multiple					Packer Set At		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
S1	2" X 3/4"				1049		1049		0
1					274	59	970		0.5 hr
2					272	62	932		1.0 hr
3					266	62	905		1.5 hrs
4					260	65	879		2.0 hrs
5					253	66	852		3.0 hrs

RATE OF FLOW CALCULATION									
NO	Coefficient (24 Hours)			hwPm	Pressure Pm	Flow Temp. Factor Fl	Gravity Factor Fq	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	9.604				265	0.9943	1.29	1.030	3362
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	1061	Pc2	1125721	
NO	Pt1	Pw	Pw2	Pc2-Pw2
1		864	746496	379225
2				
3				
4				

Absolute Open Flow 7604		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