

**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 10/5/2000		Well Number #188				
Completion Date 10/2/2000		Total Depth 6476'		Plug Back TD 6400'		Elevation 6794'		Unit Sec Twp Rng K 34 31N 5W	
Casing Size 4-1/2"		Weight 10.5#		Set At 6471'		Perforations: 5528' - 5936'		County Rio Arriba	
Tubing Size 2-3/8"		Weight 4.7#		Set At 6302'		Perforations: 6007' - 6324'		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
SI		2" X 3/4"			943	85	945		0
1					314	67	883		0.5 hr
2					313	70	863		1.0 hr
3					294	72	850		1.5 hrs
4					287	72	842		2.0 hrs
5					285	74	825		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				297	0.9868	1.29	1.033	3751
2									
3									
4									

NO	Pr	Temp. oR	Tr	Z	Gas Liquid Hydrocarbon Ration	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.
5					Critical Temperature	R

Pc	957	Pc2	915849	
NO	Pt1	Pw	Pw2	Pc2-Pw2
1		837	700569	215280
2				
3				
4				

Absolute Open Flow		11111	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