

**NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS**

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OIL CON. DIV.
PAGE 3

Operator Williams Production Company				Lease or Unit Name Rosa Unit			
Test Type X Initial Annual Special		Test Date 12/5/1999		Well Number #180A			
Completion Date 11/25/1999		Total Depth 6168'		Plug Back TD 6090'		Elevation 6427'	
Casing Size 4 1/2"		Weight 10.5#		Set At 6161'		Perforations: From 4497' To 5661'	
Tubing Size 2 3/8"		Weight 4.7#		Set At 5827'		Perforations: From 5700' To 5988'	
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	
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"			1141		1143		0
1					401	58	954		0.5 hr
2					387	62	908		1.0 hr
3					376	64	876		1.5 hrs
4					365	66	849		2.0 hrs
5					344	68	808		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				356	0.9924	1.29	1.04	4552
2									
3									
4									

NO	Pr	Temp. oR	Tr	Z	Gas Liquid Hydrocarbon Ration	Mcf/bbl.
1					A.P.I Gravity of Liquid Hydrocarbons _____	Deq.
2					Specific Gravity Separator _____	XXXXXX
3					Specific Gravity Flowing Fluid xxxxxxxxxxxx	
4					Critical Pressure _____ p.s.i.a.	_____ p.s.i.a.
5					Critical Temperature _____ R	_____ R

NO	Pc	Pt1	Pw	Pw2	Pc2-Pw2	(1) Pc2 =	(2) Pc2^n =
	1155					2.0162857	1.6920533
1			820	672400	661625	Pc2-Pw2	Pc2-Pw2
2							
3							
4							

Absolute Open Flow 7702		Mcf @ 15.025	Angle of Slope _____	Slope, n 0.75
Remarks:				
Approved By Commission:	Conducted By: Chic Charley	Calculated By: Tracy Ross	Checked By: David Spitz	