

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 11/30/2001		Well Number #30B				
Completion Date 11/9/2001		Total Depth 6165'		Plug Back TD 6125'		Elevation		Unit Sec Twp Rng M 12 31N 6W	
Casing Size 5 1/2"		Weight 17#		Set At 8199'		Perforations: From 4777' To 5746'		County Rio Arriba	
Tubing Size 2-1/16"		Weight 3.25#		Set At 5975'		Perforations: From 5803' To 5954'		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"				1005	32	1005		0
1					290	58	940		0.5 hr
2					290	62	915		1.0 hr
3					285	64	895		1.5 hrs
4					285	65	880		2.0 hrs
5					280	67	855		3.0 hrs

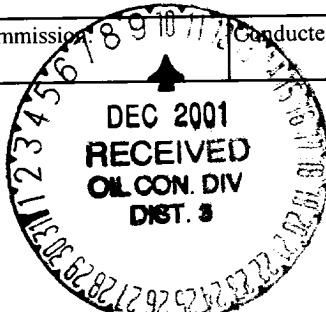
RATE OF FLOW CALCULATION								
NO	Coefficient (24 Hours)	hwPm	Pressure Pm	Flow Temp. Factor Fl	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd	
1	9.604		292	0.9933	1.29	1.030	3701	
2								
3								
4								

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

NO	Pc	Pt1	Pw	Pw2	Pc2-Pw2	(1) $\frac{Pc2}{Pc2-Pw2} =$	(2) $\frac{Pc2^n}{Pc2-Pw2} =$
1	1017		867	751689	282600	3.6599045	2.646076
2							
3							
4							

Absolute Open Flow 9794		Mcf @ 15.025	Angle of Slope _____	Slope, n 0.75
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Remarks:		
Approved By Commission: 8 9 10 11 12	Conducted By: Chic Charley	Calculated By: Tracy Ross
Checked By:		



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