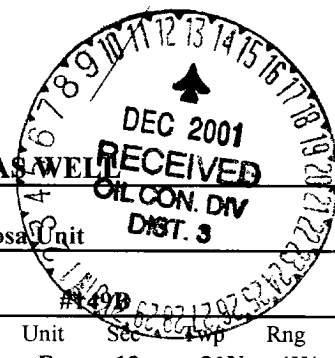


**NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELLS**



Operator Williams Production Company					Lease or Unit Name Rosa Unit				
Test Type X Initial Annual Special			Test Date 11/29/2001		Well Number #498				
Completion Date 11/17/2001		Total Depth 8133'		Plug Back TD 5947'		Elevation 6230'		Unit Sec. 12 Twp 31N Rng 6W	
Casing Size 5-1/2"		Weight 17#		Set At 8133'		Perforations: 4700' - 5720'		County Rio Arriba	
Tubing Size 2-1/16"		Weight 3.25#		Set At 6080'		Perforations: 5949' - 6005'		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"				875	26	900		0
1					230	56	835		0.5 hr
2					230	59	805		1.0 hr
3					230	62	785		1.5 hrs
4					225	64	770		2.0 hrs
5					220	65	755		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				232	0.9952	1.29	1.024	2929
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 _____	XXXXXXX
3					Specific Gravity Flowing Fluid xxxxxxxxxx	
4					Critical Pressure _____ p.s.i.a.	____ p.s.i.a.
5					Critical Temperature _____ R	____ R

Pc	Pt1	Pw	Pw2	Pc2-Pw2	(1) Pc2 = Pc2-Pw2	(2) Pc2^n = Pc2-Pw2
912					3.4164178	2.5129175
1		767	588289	243455		
2						
3						
4						

Absolute Open Flow 7361		Mcf @ 15.025	Angle of Slope _____	Slope, n 0.75
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Remarks:			
Approved By Commission:	Conducted By: Larry Higgins	Calculated By: Tracy Ross	Checked By:

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