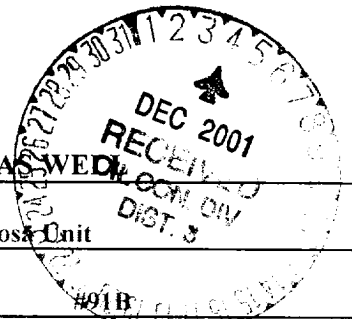


NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELLS



Operator Williams Production Company					Lease or Unit Name Rosa Unit				
Test Type X Initial Annual Special			Test Date 10/30/2001		Well Number #91B				
Completion Date 10/21/2001		Total Depth 8050'		Plug Back TD 8033'		Elevation 6325'		Unit Sec Twp Rng P 35 32N 6W	
Casing Size 5 1/2"		Weight 17#		Set At 8056'		Perforations: 7886' - 7992'		County Rio Arriba	
Tubing Size 2 1/16"		Weight 3.25#		Set At 8001'		Perforations:		Pool Basin	
Type Well - Single-Bradenhead-GG or GO Multiple					Packer Set At 6148'		Formation DK		
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"				2475	54	790		0
1					325	63	790		0.5 hr
2					250	66	795		1.0 hr
3					210	67	795		1.5 hrs
4					185	68	795		2.0 hrs
5					160	69	795		3.0 hrs

RATE OF FLOW CALCULATION										
NO	Coefficient (24 Hours)				hwPm	Pressure Pm	Flow Temp. Factor FI	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	9.604					172	0.9915	1.29	1.019	2153
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 _____	XXXXXXX
3					Specific Gravity Flowing Fluid xxxxxxxxxxxx	
4					Critical Pressure _____ p.s.i.a.	____ p.s.i.a.
5					Critical Temperature _____ R	____ R

Pc	802	Pc2	643204	
NO	Pt1	Pw	Pw2	Pc2-Pw2
1		807	651249	-8045
2				
3				
4				

(1) $\frac{Pc2}{Pc2-Pw2} = \underline{\underline{-79.950777}}$		(2) $\frac{Pc2^n}{Pc2-Pw2} = \underline{\underline{\#NUM!}}$	
AOF = Q $\frac{Pc2^n}{Pc2 - Pw2} = \underline{\underline{\#NUM!}}$			

Absolute Open Flow	#NUM!	Mcf @ 15.025	Angle of Slope _____	Slope, n	0.75
--------------------	--------------	--------------	----------------------	----------	-------------

Remarks:			
Approved By Commission:	Conducted By: Larry Higgins	Calculated By: Tracy Ross	Checked By: