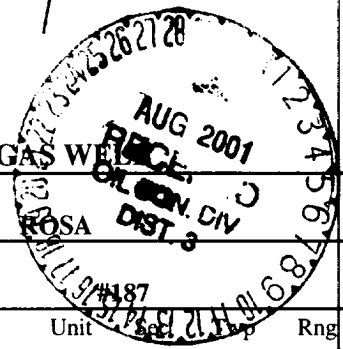


NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELLS



Operator Williams Production Company				Lease or Unit Name			
Test Type X Initial Annual Special			Test Date 8/16/2001		Well Number		
Completion Date 8/10/2001	Total Depth 6595'		Plug Back TD 6500'		Elevation 6798'		Unit N 21 31N 05W
Casing Size 4.5"	Weight 10.5#	d	Set At 6595'	Perforations: From 5205' To 6067'		County RIO ARRIBA	
Tubing Size 2-3/8"	Weight 4.7#	d	Set At	Perforations: From 6128' To 6428'		Pool BLANCO	
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"			1185	75	1185		0	
1					345	59	910		0.5 hr	
2					310	60	865		1.0 hr	
3					290	61	815		1.5 hrs	
4					285	61	795		2.0 hrs	
5					260	63	755		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,Mcf/d
1	9.604					272	0.9971	1.29	1.024	3441
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 _____					
3					Specific Gravity Flowing Fluid xxxxxxxxxx					XXXXXX
4					Critical Pressure _____ p.s.i.a.					____p.s.i.a.
5					Critical Temperature _____ R					____R

Pc	1197	Pc ²	1432809	
NO	Pt1	Pw	Pw ²	Pc ² -Pw ²
1		767	588289	844520
2				
3				
4				
(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.6965957$ (2) $\frac{P_c^{2n}}{P_c^2 - P_w^2} = 1.4866$				
AOF = Q $\frac{P_c^{2n}}{P_c^2 - P_w^2} = 5115$				
Absolute Open Flow		5115	Mcf/d @ 15.025	Angle of Slope _____
				Slope, n 0.75
Remarks:				
Approved By Commission:		Conducted By: Larry Higgins		Calculated By: Tracy Ross
				Checked By: