

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 11/1/2001		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: 4776' - 5623'		County Rio Arriba	
Tubing Size 2 1/16"		Weight 3.25#		Set At 5963'		Perforations: 5658' - 5926'		Pool Blanco MV	
Type Well - Single-Bradenhead-GG or GO Multiple					Packer Set At 6148'		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"				805	51	2415		0
1					245	63	2425		0.5 hr
2					240	66	2430		1.0 hr
3					235	67	2435		1.5 hrs
4					230	69	2440		2.0 hrs
5					225	71	2440		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				237	0.9896	1.29	1.028	2987
2									
3									
4									

NO	Pr	Temp. oR	Tr	Z	Gas Liquid Hydrocarbon Ratio	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	2427	Pc2	5890329	
NO	Pt1	Pw	Pw2	Pc2-Pw2
1		2452	6012304	-121975
2				
3				
4				

Absolute Open Flow		#NUM!	Mcf/d @ 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: