

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 5/21/2002		Well Number #150B				
Completion Date 5/8/2002		Total Depth 7971'		Plug Back TD 7949'		Elevation 6309'		Unit Sec Twp Rng D 32 32N 6W	
Casing Size 5 1/2"		Weight 17#		Set At 7971'		Perforations: 7786' - 7922'		County Rio Arriba	
Tubing Size 2 1/16"		Weight 3.25#		Set At 7860'		Perforations:		Pool Basin DK	
Type Well - Single-Bradenhead-GG or GO Multiple					Packer Set At 5925'		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"				1740	68	980		0
1					170	54	980		0.5 hr
2					105	71	985		1.0 hr
3					75	69	985		1.5 hrs
4					50	68	985		2.0 hrs
5					40	67	985		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					52	0.9933	1.29	1.009	646	
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 _____						XXXXXX
3					Specific Gravity Flowing Fluid xxxxxxxxxxxx						
4					Critical Pressure _____ p.s.i.a.						____ p.s.i.a.
5					Critical Temperature _____ R						____ R

Pc	992	Pc2	984064	
NO	Pt1	Pw	Pw2	Pc2-Pw2
1		997	994009	-9945
2				
3				
4				
Absolute Open Flow		#NUM!	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: