

30-039-27837

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

Operator Williams Production Company					Lease or Unit Name Jicarilla 93				
Test Type X Initial Annual Special			Test Date 4/29/2005		Well Number #2A				
Completion Date 4/18/2005		Total Depth 6446'		Plug Back TD		Elevation 7224'		Unit Sec Twp Rng I 34 27N 03W	
Casing Size 4 1/2"		Weight 10.5#		Set At 6444'		Perforations: 5607' - 5948'		County Rio Arriba	
Tubing Size 2 3/8"		Weight 4.7#		Set At 6217'		Perforations: 6019' - 6185'		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"				597	45	669		0
1					218	55	580		0.5 hr
2					207	58	548		1.0 hr
3					194	48	540		1.5 hrs
4					192	50	532		2.0 hrs
5					191	57	537		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,Mcfd	
1	9.604					203	1.0029	1.29	1.018	2568	
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	681	Pc2	463761	
NO	Pt1	Pw	Pw2	Pc2-Pw2
1		549	301401	162360
2				
3				
4				
(1) $Pc2 = \underline{2.8563747}$ (2) $Pc2^n = \underline{2.1971585}$ $Pc2 - Pw2$ $Pc2 - Pw2$ AOF = Q $Pc2^n = \underline{5642}$ $Pc2 - Pw2$				
Absolute Open Flow		5642	Mcf @ 15.025	Angle of Slope _____
				Slope, n 0.75

Remarks:			
Approved By Commission:	Conducted By: Tommy Clements	Calculated By: Tracy Ross	Checked By:

