

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 8/19/2002		Well Number #137B				
Completion Date 8/9/2002		Total Depth 6159'		Plug Back TD 6145'		Elevation 6457'		Unit Sec Twp Rng P 31 31N 5W	
Casing Size 4 1/2"		Weight 17#		Set At 6115'		Perforations: 5137' - 5662'		County Rio Arriba	
Tubing Size 2 3/8"		Weight 3.25#		Set At 6001'		Perforations: 5678' - 5998'		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"				865	97	880		0
1					280	63	790		0.5 hr
2					270	66	755		1.0 hr
3					265	68	730		1.5 hrs
4					260	69	710		2.0 hrs
5					245	72	680		3.0 hrs

RATE OF FLOW CALCULATION								
NO	Coefficient (24 Hours)		hwPm	Pressure Pm	Flow Temp. Factor Fl	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	9.604			257	0.9887	1.29	1.034	3255
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 _____	XXXXXXX
3					Specific Gravity Flowing Fluid xxxxxxxxxxxx	
4					Critical Pressure _____ p.s.i.a.	_____ p.s.i.a.
5					Critical Temperature _____ R	_____ R

Pc	892	Pc2	795664	
NO	Pt1	Pw	Pw2	Pc2-Pw2
1		692	478864	316800
2				
3				
4				

(1) $Pc2 = 2.5115657$

$Pc2 - Pw2$

AOF = Q $Pc2^n = 6494$

$Pc2 - Pw2$

(2) $Pc2^n = 1.9950712$

$Pc2 - Pw2$

Absolute Open Flow	6494	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:
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