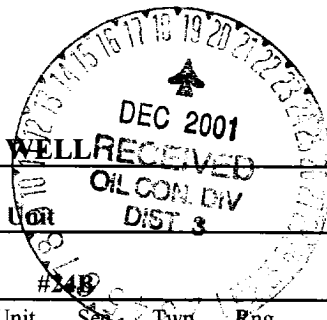


NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL



Operator Williams Production Company					Lease or Unit Name Rosa Unit				
Test Type X Initial Annual Special			Test Date 12/6/2001		Well Number #348				
Completion Date 11/22/2001		Total Depth 8130'		Plug Back TD 8118'		Elevation 6518'		Unit Sec. Twp. Rng N 32 31N 5W	
Casing Size 5-1/2"		Weight 17#		Set At 6903'		Perforations: 4574' - 5704'		County Rio Arriba	
Tubing Size 2-1/16"		Weight 3.25#		Set At 5941'		Perforations: 5775' - 5976'		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"				840	21	845		0
1					270	58	780		0.5 hr
2					265	64	760		1.0 hr
3					260	71	750		1.5 hrs
4					260	75	735		2.0 hrs
5					250	77	720		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					262	0.984	1.29	1.038	3315
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 xxxxxxxxxx	
4					Critical Pressure _____ p.s.i.a.	____ p.s.i.a.
5					Critical Temperature _____ R	____ R

Pc	857	Pc2	734449	
NO	Pt1	Pw	Pw2	Pc2-Pw2
1		732	535824	198625
2				
3				
4				

(1) $P_{c2} = \frac{3.6976665}{P_{c2}-P_{w2}}$		(2) $P_{c2}^n = \frac{2.6665259}{P_{c2}-P_{w2}}$	
AOF = Q $\frac{P_{c2}^n}{P_{c2} - P_{w2}} = \underline{\underline{8841}}$			

Absolute Open Flow	8841	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: