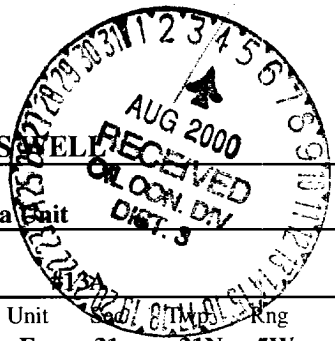


NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS



Operator Williams Production Company					Lease or Unit Name Rosa Unit				
Test Type X Initial Annual Special			Test Date 6/27/2000		Well Number				
Completion Date 6/20/2000		Total Depth 6233'		Plug Back TD 6050'		Elevation 6507'		Unit F 31 31N 5W	
Casing Size 4-1/2"		Weight 10.5#		Set At 6233'		Perforations: 4598' - 5706'		County Rio Arriba	
Tubing Size 2-3/8"		Weight 4.7#		Set At 5967'		Perforations: 5723' - 5980'		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"			250	84	694		0
1					220	69	630		0.5 hr
2					230	69	595		1.0 hr
3					220	70	570		1.5 hrs
4					220	71	555		2.0 hrs
5					215	72	530		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					227	0.9887	1.29	1.028	2858
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 xxxxxxxxxx	
4					Critical Pressure _____ p.s.i.a.	_____ p.s.i.a.
5					Critical Temperature _____ R	_____ R

Pc	706	Pc2	498436	
NO	Pt1	Pw	Pw2	Pc2-Pw2
1		542	293764	204672
2				
3				
4				

(1) $Pc2 = \underline{2.4352916}$		(2) $Pc2^n = \underline{1.9494551}$	
$Pc2 - Pw2$		$Pc2 - Pw2$	
AOF = Q $\frac{Pc2^n}{Pc2 - Pw2} = \underline{5572}$			

Absolute Open Flow	5572	Mcf @ 15.025	Angle of Slope _____	Slope, n	0.75
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Remarks:			
Approved By Commission:	Conducted By: Mark Lepich	Calculated By: Tracy Ross	Checked By: David Spitz