

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 8/28/2001		Well Number #184			
Completion Date 8/24/2001	Total Depth 6308'	Plug Back TD 6280'	Elevation 6579'		Unit I	Sec 34	Twp 31N
Casing Size 4 1/2"	Weight 10.5#	d	Set At 6306'	Perforations: 4686' - 5829'	County Rio Arriba		
Tubing Size 2-3/8"	Weight 4.7#	d	Set At 6051'	Perforations: 5860' - 6090'	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	
L	H	Gq 0.6	%CO2	%N2	%H2S	Prover 3/4"	Meter Run
						Taps	

FLOW 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					1050	86	1050		0
1					305	67	1005		0.5 hr
2					300	66	970		1.0 hr
3					295	68	935		1.5 hrs
4					290	70	910		2.0 hrs
5					275	71	875		3.0 hrs

RATE OF FLOW CALCULATION

NO	hwPm	Pressure Pm	Flow Temp. Factor Fl	Gravity Factor Fq	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	9.604	287	0.9896	1.29	1.034	3638
2						
3						
4						

NO	Pr	Temp. oR	Tr	Z	Gas Liquid Hydrocarbon Ration	Mcf/bbl. Deq.
1					A.P.I Gravity of Liquid Hydrocabrons _____	XXXXXX
2					Specific Gravity Separator _____	
3					Specific Gravity Flowing Fluid xxxxxxxxxx	
4					Critical Pressure _____ p.s.i.a.	_____ p.s.i.a.
5					Critical Temperature _____ R	_____ R

NO	Pt1	Pw	Pw2	Pc2-Pw2	(1) $Pc2 = \frac{Pc2^n}{Pc2-Pw2}$	(2) $Pc2^n = \frac{Pc2^n}{Pc2-Pw2}$
1		887	786769	341075		
2						
3						
4						

AOF = Q $\frac{Pc2^n}{Pc2 - Pw2} = \underline{\underline{8922}}$

Absolute Open Flow **8922** Mcfd @ 15.025 Angle of Slope _____ Slope, n **0.75**

Remarks:

Approved By Commission:	Conducted By: Larry Higgins	Calculated By: Tracy Ross	Checked By:
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