

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 8/2/2000		Well Number #31						
Completion Date 7/28/2000		Total Depth 5973'		Plug Back TD 5948'		Elevation 6201'		Unit C	Sec 17	Twp 31N	Rng 5W
Casing Size 4-1/2"		Weight 10.5#	d	Set At 5973'	Perforations: 5050' - 5461'			County Rio Arriba			
Tubing Size 2-3/8"		Weight 4.7#	d	Set At 5864'	Perforations: 5529' - 5860'			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"			520		1070		0
1					320	68	1025		0.5 hr
2					270	72	965		1.0 hr
3					230	74	920		1.5 hrs
4					230	74	900		2.0 hrs
5					230	74	885		3.0 hrs

RATE OF FLOW CALCULATION									
NO	Coefficient	hwPm	Pressure Pm	Flow Temp. Factor Fl	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd		
1	9.604		242	0.9868	1.29	1.028	3041		
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 xxxxxxxxxx	
4					Critical Pressure _____ p.s.i.a.	____ p.s.i.a.
5					Critical Temperature _____ R	____ R

Pc	1082	Pc2	1170724	
NO	Pt1	Pw	Pw2	Pc2-Pw2
1		897	804609	366115
2				
3				
4				

(1) $Pc2 = 3.1976947$ (2) $Pc2^n = 2.3912652$
 $Pc2 - Pw2$ $Pc2 - Pw2$

AOF = Q $Pc2^n = 7273$
 $Pc2 - Pw2$

Absolute Open Flow	7273	Mcf/d @ 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