

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

Operator Williams Production Company				Lease or Unit Name Bosa Unit			
Test Type X Initial Annual Special			Test Date 12/5/2001		Well Number #31B		
Completion Date 11/23/2001		Total Depth 8049'		Plug Back TD 8025'		Elevation 6315'	
Casing Size 5 1/2"		Weight 17#	d	Set At 8049'	Perforations: 7868' - 7936'		Unit Sec Twp Rng D 17 31N 5W
Tubing Size 2 1/16"		Weight 3.25#	d	Set At 7960'	Perforations:		County Rio Arriba
Type Well - Single-Bradenhead-GG or GO Multiple				Packer Set At 6100'		Formation DK	
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"				2520	37	1050		0
1					365	58	1050		0.5 hr
2					320	61	1055		1.0 hr
3					290	62	1055		1.5 hrs
4					275	63	1055		2.0 hrs
5					255	64	1055		3.0 hrs

RATE OF FLOW CALCULATION										
NO	Coefficient (24 Hours)				hwPm	Pressure Pm	Flow Temp. Factor Fl	Gravity Factor Fq	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	9.604					267	0.9962	1.29	1.024	3374
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	1062	Pc2	1127844	
NO	Pt1	Pw	Pw2	Pc2-Pw2
1		1067	1138489	-10645
2				
3				
4				
(1) $\frac{Pc2}{Pc2-Pw2} = \underline{\underline{-105.95059}}$ (2) $\frac{Pc2^n}{Pc2-Pw2} = \underline{\underline{\#NUM!}}$ AOF = Q $\frac{Pc2^n}{Pc2 - Pw2} = \underline{\underline{\#NUM!}}$				
Absolute Open Flow		#NUM!	Mcf @ 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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