

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 4/29/2002		Well Number #29B				
Completion Date 4/22/2002		Total Depth 8203'		Plug Back TD 8178'		Elevation 6560'		Unit Sec Twp Rng B 32 32N 6W	
Casing Size 5 1/2"		Weight 17#		Set At 8203'		Perforations: 4884' - 5800'		County Rio Arriba	
Tubing Size 2 1/16"		Weight 3.25#		Set At 6104'		Perforations: 5821' - 6117'		Pool Blanco MV	
Type Well - Single-Bradenhead-GG or GO Multiple					Packer Set At 6150'		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"			770	45	830		0
1					190	57	775		0.5 hr
2					205	59	745		1.0 hr
3					210	61	725		1.5 hrs
4					190	62	710		2.0 hrs
5					210	63	685		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				222	0.9971	1.29	1.020	2797
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	842	Pc2	708964
----	------------	-----	---------------

NO	Pt1	Pw	Pw2	Pc2-Pw2	(1) $Pc2 = \frac{3.1770025}{Pc2-Pw2}$	(2) $Pc2^n = \frac{2.3796505}{Pc2-Pw2}$
1		697	485809	223155		
2						
3						
4						

Absolute Open Flow 6657		Mcf/d @ 15.025	Angle of Slope _____	Slope, n 0.75
--------------------------------	--	----------------	----------------------	----------------------

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