

30-045-31061

**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 <u>X</u> Initial Annual Special			Test Date 5/18/2005		Well Number #88B				
Completion Date 5/11/2005		Total Depth 6038'		Plug Back TD 6013'		Elevation 6314'		Unit Sec Twp Rng K 08 31N 06W	
Casing Size 4 1/2"		Weight 10.5#		Set At 6038'		Perforations: 5035' - 5481'		County Rio Arriba	
Tubing Size 2 3/8"		Weight 4.7#		Set At 5864'		Perforations: 5525' - 5886'		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"			1050	93	1055		0
1					353	64	872		0.5 hr
2					330	68	802		1.0 hr
3					295	71	762		1.5 hrs
4					260	70	751		2.0 hrs
5					243	70	727		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			255	0.9905	1.29	1.036	3242
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

NO	Pc	Pt1	Pw	Pw2	Pc2-Pw2	(1) Pc2 = Pc2-Pw2	(2) Pc2^n = Pc2-Pw2
	1067		1138489			1.9219286	1.6323111
1			739	546121	592368		
2							
3							
4							

Absolute Open Flow 5292		Mcf @ 15.025	Angle of Slope _____	Slope, n 0.75
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Remarks:			
Approved By Commission:	Conducted By: Doug Sprague	Calculated By: Tracy Ross	Checked By:

