

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 10/25/98		Well Number #168				
Completion Date 10/8/98		Total Depth		Plug Back TD		Elevation		Unit Sec Twp Rng P 28 31N 5W	
Casing Size		Weight d		Set At		Perforations: From To		County RIO ARRIBA	
Tubing Size		Weight d		Set At		Perforations: From To		County BLANCO	
Type Well - Single-Bradenhead-GG or GO Multiple				Packer Set At		County MV			
Producing Thru Tubing		Reservoir Temp. oF		Mean Annual Temp. oF		Prover		Connection	
L	H	Gq 0.6	%CO2	%N2	%H2S	Prover 3/4"		Meter Run	Taps

RECEIVED
NOV - 6 1998
OIL CON. DIV.
DIST. 3

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"				1162		1164		0
1					426	58	1062		0.5 hr
2					408	64	1004		1.0 hr
3					394	68	968		1.5 hrs
4					382	70	932		2.0 hrs
5					368	70	887		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.Mcf/d
1	9.604					380	0.9905	1.29	1.047	4882
2										
3										
4										
NO	Pr	Temp. oR	Tr	Z	Gas Liquid Hydrocarbon Ratio _____ A.P.I Gravity of Liquid Hydrocarbons _____ Specific Gravity Separator _____ Specific Gravity Flowing Fluid xxxxxxxxxx Critical Pressure _____ p.s.i.a. Critical Temperature _____ R					Mcf/bbl. Deq. XXXXXX ____ p.s.i.a. ____ R
Pc	1176		Pc ²	1382976						

NO	Ptl	Pw	Pw ²	Pc ² -Pw ²	(1) $\frac{Pc^2}{Pc^2 - Pw^2} =$	(2) $\frac{Pc^{2.75}}{Pc^2 - Pw^2} =$
1		899	808201	574775	2.4061172	1.9319
2						
3						
4						
AOF = Q $\frac{Pc^{2.75}}{Pc^2 - Pw^2} =$ 9432						
Absolute Open Flow		9432	Mcf/d @ 15.025		Angle of Slope	Slope. n 0.75

Remarks:			
Approved By Commission:	Conducted By:	Calculated By:	Checked By: