

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 ☒ Initial ☐ Annual ☐ Special			Test Date 6/13/2000		Well Number #14A		
Completion Date 5/6/2000		Total Depth		Plug Back TD		Elevation 6273'	
Casing Size		Weight	d	Set At	Perforations:		County Rio Arriba
Tubing Size		Weight	d	Set At	Perforations:		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	
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	Duration of Flow
SI	2" X 3/4"				774		0
1					293	67	0.5 hr
2					288	70	1.0 hr
3					288	71	1.5 hrs
4					286	73	2.0 hrs
5					280	75	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		292	0.9859	1.29	1.038	3702
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

Pc	924	Pc2	853776	
NO	Pt1	Pw	Pw2	Pc2-Pw2
1		747	558009	295767
2				
3				
4				
(1) $\frac{Pc2}{Pc2 - Pw2} = \frac{2.8866506}{2.8866506 - 2.2146019} = 2.8866506$				
(2) $\frac{Pc2^n}{Pc2 - Pw2} = \frac{2.2146019}{2.2146019 - 2.2146019} = 2.2146019$				
AOF = Q $\frac{Pc2^n}{Pc2 - Pw2} = \frac{8199}{8199 - 8199} = 8199$				
Absolute Open Flow 8199		Mcf/d @ 15.025		Angle of Slope _____
				Slope, n 0.75

Remarks:			
Approved By Commission:	Conducted By: Mark Lepich	Calculated By: Tracy Ross	Checked By: David Spitz