

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 10/2/2006		Well Number (API #) #312A (API # 30-039-29908)				
Completion Date 9/26/2006		Total Depth 3947'		Plug Back TD		Elevation 6728'		Unit Sec Twp Rng E 28 31N 04W	
Casing Size 7"		Weight 23#		Set At 3741'		Perforations:		County Rio Arriba	
Tubing Size 2 7/8"		Weight 6.5#		Set At 3718'		Perforations:		Pool Basin	
Type Well - Single-Bradenhead-GG or GO Multiple				Packer Set At		Formation Fruitland Coal			
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
SI	2" X 3/4"				245	70	1210	
1					235	70	1162	0
2					235	64	1162	0.5 hr
3					205	64	1040	1.0 hr
4					205	55	1040	1.5 hrs
5					200	55	990	2.0 hrs
								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		212	1.0048	1.29	1.017	2684	
2								
3								
4								

NO	Pr	Temp. oR	Tr	Z	Gas Liquid Hydrocarbon Ration	Mcf/bbl. Deq.
1					A.P.I Gravity of Liquid Hydrocabrons _____	
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	1222	Pc2	1493284
NO	Pt1	Pw	Pw2
1		1002	1004004
2			
3			
4			

(1) $\frac{Pc2}{Pc2 - Pw2} = \underline{\underline{3.0520029}}$		(2) $\frac{Pc2^n}{Pc2 - Pw2} = \underline{\underline{2.3090786}}$	
AOF = Q $\frac{Pc2^n}{Pc2 - Pw2} = \underline{\underline{6198}}$			

Absolute Open Flow	6198	Mcf/d @ 15.025	Angle of Slope _____	Slope, n	0.75
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Remarks:			
Approved By Commission:	Conducted By: Mark Lepich	Calculated By: Tracy Ross	Checked By:

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