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SEP 30 1999

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 9/27/99		Well Number #5Y				
Completion Date 8/9/99		Total Depth 6002'		Plug Back TD 5970'		Elevation		Unit Sec Twp Rng H 26 31N 6W	
Casing Size 9-5/8"		Weight 36#		Set At 269'		Perforations: From 4405' To 5568'		County Rio Arriba	
Tubing Size 2-3/8"		Weight 4.7#		Set At 5749'		Perforations: From 5591' To 5813'		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"			1092		1094		0
1					402	62	951		0.5 hr
2					387	65	894		1.0 hr
3					361	68	862		1.5 hrs
4					350	70	854		2.0 hrs
5					334	72	775		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					346	0.9887	1.29	1.041	4412
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 xxxxxxxxxxxx				
4					Critical Pressure _____ p.s.i.a.				____ p.s.i.a.
5					Critical Temperature _____ R				____ R

Pc	1106	Pc2	1223236	
NO	Pt1	Pw	Pw2	Pc2-Pw2
1		787	619369	603867
2				
3				
4				

(1) $\frac{Pc2}{Pc2-Pw2} =$ 2.0256712		(2) $\frac{Pc2^n}{Pc2-Pw2} =$ 1.6979571	
AOF = Q $\frac{Pc2^n}{Pc2 - Pw2} =$ 7491			

Absolute Open Flow	7491	Mcf/d @ 15.025	Angle of Slope _____	Slope, n	0.75
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Remarks:			
Approved By Commission:	Conducted By: Chic Charley	Calculated By: Tracy Ross	Checked By: David Spitz