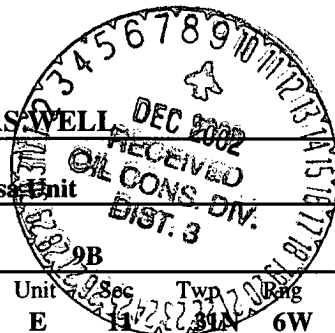


30-039-27042

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 11/20/2002		Well Number				
Completion Date 11/13/2002		Total Depth 6075'		Plug Back TD 6048'		Elevation 6308'		Unit E	
Casing Size 4-1/2"		Weight 10.5#		Set At 6073'		Perforations: 4569' - 5518'		County Rio Arriba	
Tubing Size 2-3/8"		Weight 4.7#		Set At 5951'		Perforations: 5596' - 5945'		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"			930	45	965		0
1					290	58	835		0.5 hr
2					285	61	770		1.0 hr
3					270	63	720		1.5 hrs
4					245	65	680		2.0 hrs
5					240	66	640		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 _c Mcf/d
1	9.604					252	0.9943	1.29	1.030	3197
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	Pt1	Pw	Pw2	Pc2-Pw2	(1) $\frac{Pc2}{Pc2-Pw2} =$	(2) $\frac{Pc2^n}{Pc2-Pw2} =$
1		652	425104	529425	1.8029541	1.5559245
2						
3						
4						

Absolute Open Flow 4975		Mcf/d @ 15.025	Angle of Slope _____	Slope, n 0.75
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Remarks:			
Approved By Commission:	Conducted By: Larry Higgins	Calculated By: Tracy Ross	Checked By: