

# NEW MEXICO OIL CONSERVATION COMMISSION

## MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122

<b>Type Test</b> <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special						<b>Test Date</b> August 28, 1995			
<b>Company</b> Williams Production Company				<b>Connection</b>					
<b>Pool Basin</b>				<b>Formation</b> Dakota				<b>Unit</b> Rosa	
<b>Completion Date</b> 8-04-95		<b>Total Depth</b> 8180'		<b>Plug Back TD</b> 8171'		<b>Elevation</b> 6431'		<b>Farm or Lease Name</b>	
<b>Casing Size</b>		<b>Weight</b> d		<b>Set At</b>		<b>Perforations:</b> From                      To		<b>Well No.</b> 15A	
<b>Tubing Size</b>		<b>Weight</b> d		<b>Set at</b>		<b>Perforations:</b> From                      To		<b>Unit Sec Twp Rng</b> I 29 31N 5W	
<b>Type Well - Single - Bradenhead - GG or GO Multiple</b>				<b>Packer Set At</b>				<b>County</b> Rio Arriba	
<b>Producing Thru Tubing</b>		<b>Reservoir Temp. °F</b>		<b>Mean Annual Temp. °F</b>		<b>Barometer Pressure - P<sub>a</sub></b>		<b>State</b> New Mexico	
<b>L</b>		<b>H</b>		<b>Gq</b> .6		<b>%CO<sub>2</sub></b>		<b>%N<sub>2</sub></b>	
						<b>%H<sub>2</sub>S</b>		<b>Prover</b> 3/4"	
								<b>Meter Run</b>	
								<b>Taps</b>	

  

FLOW DATA					TUBING DATA		CASING DATA		
NO.	Prover X Line	Orifice Size	Pressure p.s.i.q.	Temperature °F	Pressure p.s.i.q.	Temperature °F	Pressure p.s.i.q.	Temperature °F	Duration of
SI		2" X 3/4"			2516				0
1.					214	51°			0.5 hr
2.					161	61°			1.0 hr
3.					139	64°			1.5 hrs
4.					116	64°			2.0 hrs
5.					102	65°			3.0 hrs

  

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P <sub>m</sub>	Flow Temp. Factor	Gravity Factor	Super Compress.	Rate of Flow
1.	9.604		114	.9952	1.29	1.014	1.425
2.							
3.							
4.							

  

<b>NO.</b> <b>P<sub>r</sub></b> <b>T<sub>r</sub></b> <b>Z</b>				<b>Gas Liquid Hydrocarbon Ratio</b> _____ Mcf/bbl.	
<b>1.</b>				<b>A.P.I. Gravity of Liquid Hydrocarbons</b> _____ Deq.	
<b>2.</b>				<b>Specific Gravity Separator</b> _____ XXXXXX	
<b>3.</b>				<b>Specific Gravity Flowing Fluid</b> _____ XXXXX	
<b>4.</b>				<b>Critical Pressure</b> _____ p.s.i.a.    p.s.i.a.	
<b>5.</b>				<b>Critical Temperature</b> _____ R    R	

  

<b>P<sub>a</sub></b> 2528 <b>P<sub>a</sub><sup>2</sup></b> 6390784			
<b>NO.</b>	<b>P<sub>1</sub><sup>2</sup></b>	<b>P<sub>2</sub><sup>2</sup></b>	<b>P<sub>a</sub><sup>2</sup> - P<sub>2</sub><sup>2</sup></b>
1.		114	12996
2.			
3.			
4.			

  

<b>(1) <math>\frac{P_a^2}{P_a^2 - P_w^2} = \frac{1.0020}{1.0015}</math></b>		<b>(2) <math>\frac{P_a^2}{P_a^2 - P_w^2} = \frac{1.0015}{1.0015}</math></b>	
<b>AOF = Q <math>\left[ \frac{P_a^2}{P_a^2 - P_w^2} \right] = 1427</math></b>			

  

<b>Absolute Open Flow</b> 1427    Mcfd @ 15.025		<b>Angle of Slope</b> °		<b>Slope, n</b> .75	
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<b>Remarks:</b>			
<b>Approved By Commission:</b>		<b>Conducted By:</b>	
<b>Calculated By:</b> Susan Griguin		<b>Checked By:</b>	