

# 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> Sept 21, 1995			
<b>Company</b> Williams Production Company				<b>Connection</b>						
<b>Pool</b> Basin				<b>Formation</b> Dakota			<b>Unit</b> Rosa			
<b>Completion Date</b>		<b>Total Depth</b>		<b>Plug Back TD</b>		<b>Elevation</b>		<b>Farm or Lease Name</b>		
<b>Casing Size</b>		<b>Weight</b>	<b>d</b>	<b>Set At</b>	<b>Perforations:</b> From                      To		<b>Well No.</b> 77A			
<b>Tubing Size</b>		<b>Weight</b>	<b>d</b>	<b>Set at</b>	<b>Perforations:</b> From                      To		<b>Unit</b> I	<b>Sec</b> 33	<b>Twp</b> 31N	<b>Rng</b> 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 Line	X 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"				2577				0
1.					273	59°			0.5 hr
2.					247	62°			1.0 hr
3.					229	63°			1.5 hrs
4.					216	65°			2.0 hrs
5.					197	66°			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		209	.9943	1.29	1.024	2.636
2.							
3.							
4.							

  

NO.	P <sub>r</sub>	Temp. °R	T <sub>r</sub>	Z	Gas Liquid Hydrocarbon Ration _____ Mcf/bbl. A.P.I. Gravity of Liquid Hydrocarbons _____ Deg. Specific Gravity Separator _____ XXXXXX Specific Gravity Flowing Fluid _____ xxxxx Critical Pressure _____ p.s.i.a. _____ p.s.i.a. Critical Temperature _____ R _____ R			
1.					<div style="display: flex; justify-content: space-between;"> <div> (1) <math>\frac{P_r^2}{P_c^2 - P_w^2} = \frac{1.0066}{1.0049}</math> </div> <div> (2) <math>\frac{P_r^2}{P_c^2 - P_w^2} = 1.0049</math> </div> </div> AOF = Q $\left[ \frac{P_c}{P_c^2 - P_w^2} \right] = 2649$			
2.								
3.								
4.								

  

NO.	P <sub>r</sub>	P <sub>w</sub>	P <sub>c</sub>	P <sub>c</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup>
1.		209	43681	6659240
2.				
3.				
4.				

  

<b>Absolute Open Flow</b> 2649    Mcfd @ 15.025    Angle of Slope °	<b>Slope, n</b> .75
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<b>Remarks:</b> WELL UNLOAD LIGHT MIST 1ST HOUR TO CLEAN GAS 3RD HOUR			
<b>Approved By Commission:</b>	<b>Conducted By:</b>	<b>Calculated By:</b> Susan Griguin	<b>Checked By:</b>