

**NEW MEXICO OIL CONSERVATION COMMISSION**  
**MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL**

Operator <b>Williams Production Company</b>					Lease or Unit Name <b>ROSA UNIT</b>				
Test Type <b>X Initial</b> <b>Annual</b> <b>Special</b>			Test Date <b>12/6/98</b>		Well Number <b>#150A</b>				
Completion Date <b>11/24/98</b>		Total Depth		Plug Back TD		Elevation		Unit    Sec    Twp    Rng <b>M    32    32N    6W</b>	
Casing Size		Weight    d		Set At		Perforations: From    To		County <b>SAN JUAN</b>	
Tubing Size		Weight    d		Set At		Perforations: From    To		Pool <b>BLANCO</b>	
Type Well - Single-Bradenhead-GG or GO Multiple					Packer Set At		Formation <b>MV</b>		
Producing Thru <b>Tubing</b>		Reservoir Temp. oF		Mean Annual Temp. oF		Barometer Pressure - Pa		Connection	
L	H	Gq <b>0.6</b>	%CO2	%N2	%H2S		Prover <b>3/4"</b>	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	<b>2" X 3/4"</b>				<b>1032</b>		<b>1036</b>		<b>0</b>
1					<b>392</b>	<b>58</b>	<b>961</b>		<b>0.5 hr</b>
2					<b>381</b>	<b>62</b>	<b>930</b>		<b>1.0 hr</b>
3					<b>374</b>	<b>66</b>	<b>912</b>		<b>1.5 hrs</b>
4					<b>368</b>	<b>68</b>	<b>894</b>		<b>2.0 hrs</b>
5					<b>357</b>	<b>68</b>	<b>858</b>		<b>3.0 hrs</b>

  

RATE OF FLOW CALCULATION										
NO	Coefficient (24 Hours)				hwPm	Pressure Pm	Flow Temp. Factor Ff	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	<b>9.604</b>					<b>369</b>	<b>0.9924</b>	<b>1.29</b>	<b>1.04</b>	<b>4718</b>
2										
3										
4										
NO	Pr	Temp. oR	Tr	Z	Gas Liquid Hydrocarbon Ration _____ Mcf/bbl. A.P.I Gravity of Liquid Hydrocabrons _____ Deq. Specific Gravity Separator _____ Specific Gravity Flowing Fluid xxxxxxxxxxxx XXXXXX Critical Pressure _____ p.s.i.a. _____ p.s.i.a. Critical Temperature _____ R _____ R					
Pc	<b>1048</b>		Pc <sup>2</sup>	<b>1098304</b>						
NO	Ptl	Pw	Pw <sup>2</sup>	Pc <sup>2</sup> -Pw <sup>2</sup>	(1) $\frac{Pc^2}{Pc^2 - Pw^2} = \underline{3.2170215}$ (2) $\frac{Pc^{2.75}}{Pc^{2.75} - Pw^{2.75}} = \underline{2.4021}$					
1		<b>870</b>	<b>756900</b>	<b>341404</b>	AOF = Q $\frac{Pc^{2.75}}{Pc^{2.75} - Pw^{2.75}} = \underline{11334}$					
2										
3										
4										
Absolute Open Flow		<b>11334</b>		Mcf/d @ 15.025		Angle of Slope _____		Slope, n <b>0.75</b>		

  

Remarks:			
Approved By Commission:	Conducted By:	Calculated By:	Checked By: