

**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      Annual      Special</b>			Test Date <b>7/8/2002</b>		Well Number <b>#165C</b>				
Completion Date <b>6/24/2002</b>		Total Depth <b>8060'</b>		Plug Back TD <b>8049'</b>		Elevation <b>6399'</b>		Unit    Sec    Twp    Rng <b>G      25      31N    6W</b>	
Casing Size <b>5 1/2"</b>		Weight <b>17#</b>		Set At <b>8060'</b>		Perforations: <b>7894' - 7991'</b>		County <b>Rio Arriba</b>	
Tubing Size <b>2 1/16"</b>		Weight <b>3.25#</b>		Set At <b>7959'</b>		Perforations:		Pool <b>Basin</b>	
Type Well - Single-Bradenhead-GG or GO Multiple					Packer Set At <b>6100'</b>		Formation <b>DK</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.g	Temperature oF	Pressure p.s.i.g	Temperature oF	Pressure p.s.i.g	Temperature oF	Duration of Flow
SI		<b>2" X 3/4"</b>			<b>1920</b>	<b>87</b>	<b>930</b>		<b>0</b>
1					<b>210</b>	<b>65</b>	<b>935</b>		<b>0.5 hr</b>
2					<b>145</b>	<b>69</b>	<b>935</b>		<b>1.0 hr</b>
3					<b>115</b>	<b>70</b>	<b>935</b>		<b>1.5 hrs</b>
4					<b>95</b>	<b>71</b>	<b>935</b>		<b>2.0 hrs</b>
5					<b>75</b>	<b>72</b>	<b>935</b>		<b>3.0 hrs</b>

  

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	<b>9.604</b>				<b>87</b>	<b>0.9887</b>	<b>1.29</b>	<b>1.010</b>	<b>1076</b>
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

  

Pc	<b>942</b>	Pc2	<b>887364</b>	
NO	Pt1	Pw	Pw2	Pc2-Pw2
1		<b>947</b>	<b>896809</b>	<b>-9445</b>
2				
3				
4				

  

(1) $\frac{Pc2}{Pc2-Pw2} = \underline{\underline{-93.950662}}$		(2) $\frac{Pc2^n}{Pc2-Pw2} = \underline{\underline{\#NUM!}}$	
AOF = Q $\frac{Pc2^n}{Pc2 - Pw2} = \underline{\underline{\#NUM!}}$			

  

Absolute Open Flow	<b>#NUM!</b>	Mcf @ 15.025	Angle of Slope _____	Slope, n	<b>0.75</b>
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Remarks:			
Approved By Commission:	Conducted By: <b>Larry Higgins</b>	Calculated By: <b>Tracy Ross</b>	Checked By: