

**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>9/12/99</b>		Well Number <b>#165</b>				
Completion Date <b>9/3/99</b>		Total Depth <b>6085'</b>		Plug Back TD <b>6050'</b>		Elevation <b>6393' GR</b>		Unit    Sec    Twp    Rng <b>F    25    31N    6W</b>	
Casing Size <b>4 1/2"</b>		Weight <b>10.5#</b>		Set At <b>6085'</b>		Perforations: <b>From 4405' To 5639'</b>		County <b>Rio Arriba</b>	
Tubing Size <b>2 3/8"</b>		Weight <b>4.7#</b>		Set At <b>5873'</b>		Perforations: <b>From 5657' To 5970'</b>		Pool <b>Blanco MV</b>	
Type Well - Single-Bradenhead-GG or GO Multiple					Packer Set At <b>3530'</b>		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>934</b>				<b>0</b>
1					<b>334</b>	<b>78</b>			<b>0.5 hr</b>
2					<b>291</b>	<b>81</b>			<b>1.0 hr</b>
3					<b>276</b>	<b>82</b>			<b>1.5 hrs</b>
4					<b>264</b>	<b>85</b>			<b>2.0 hrs</b>
5					<b>254</b>	<b>81</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>266</b>	<b>0.9804</b>	<b>1.29</b>	<b>1.043</b>	<b>3370</b>
2									
3									
4									

  

NO	Pr	Temp. oR	Tr	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1					A.P.I Gravity of Liquid Hydrocarbons _____	Deq.
2					Specific Gravity Separator _____	XXXXXXX
3					Specific Gravity Flowing Fluid xxxxxxxxxxxx	
4					Critical Pressure _____ p.s.i.a.	____ p.s.i.a.
5					Critical Temperature _____ R	____ R

  

Pc	Pt1	Pw	Pw2	Pc2-Pw2	(1) $\frac{Pc2}{Pc2-Pw2} =$	(2) $\frac{Pc2^n}{Pc2-Pw2} =$
<b>946</b>					<b>1.0858523</b>	<b>1.0637218</b>
		<b>266</b>	<b>70756</b>	<b>824160</b>		

  

Absolute Open Flow <b>3585</b>		Mcf @ 15.025	Angle of Slope _____	Slope, n <b>0.75</b>
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Remarks:			
Approved By Commission:	Conducted By: <b>Chic Charley</b>	Calculated By: <b>Tracy Ross</b>	Checked By: <b>David Spitz</b>