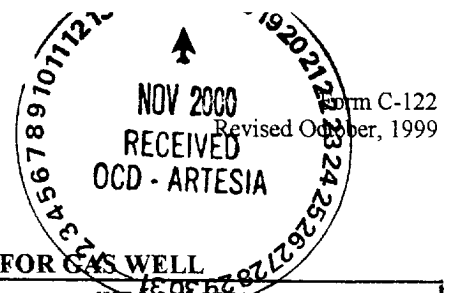


Submit in duplicate to appropriate district office. See Rule 401 & Rule 1122

State of New Mexico  
Energy Minerals and Natural Resources  
Oil Conservation Division  
2040 South Pacheco  
Santa Fe, NM 87505



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

Operator RELIANCE ENERGY INC.				Lease or Unit Name WILLOW SPRING "32" STATE							
Type Test <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special				Test Date 10/31/00		Well No. 1					
Completion Date 10/21/00		Total Depth 4250		Plug Back TD 4011		Elevation Unit Ltr - Sec - TWP - Rge N 32 4S 25E					
Csg. Size 5 1/2	Wt. 15.5	d 4.892	Set At 4054	Perforations: From: 3562      To: 3828		County CHAVES					
Tbg. Size 2 3/8	Wt. 4.7	d 1.995	Set At 3774	Perforations: From:              To:		Pool <i>Pocos Slope Area</i>					
Type Well-Single-Bradenhead-G.G. or G.O. Multiple SINGLE				Packer Set At NOME		Formation ABO					
Producing Thru TUBING		Reservoir Temp. °F 111.7		Mean Annual Temp. °F 60		Baro. Press. - P <sub>a</sub> 13.2					
Connection SALES		L 3774		H 3774		Gg 0.654					
%		°CO <sub>2</sub> 0.04		°ON <sub>2</sub> 7.67		°OH <sub>2</sub> S N/A					
Prover N/A		Meter Run 2.067		Taps FLG							
FLOW DATA				TUBING DATA				CASING DATA			
No.	Prover Line Size	Orifice Size	Press p.s.i.g.	Diff. h <sub>w</sub>	Temp. °F	Press p.s.i.g.	Temp. °F	Press p.s.i.g.	Temp. °F	Duration of Flow	
SI						1030	N/A	PKR	N/A		
1	2.067 X 1.000		115	54	60	280				24 HRS	
2											
3											
4											
5											
<b>RATE OF FLOW CALCULATIONS</b>											
No.	COEFFICIENT (24 Hour)		$\sqrt{h_w P_m}$	Pressure P <sub>m</sub>	Flow Temp. Factor Ft.	Gravity Factor F <sub>g</sub>	Super Compress Factor F <sub>pv</sub>	Rate of Flow Q, Mcfd			
1	4.946		83.2	128.2	1	1.237	1046	420			
2											
3											
4											
5											
No.	P <sub>r</sub>	Temp. °R	T <sub>r</sub>	Z	Gas Liquid Hydrocarbon Ratio			Mcf bbl.			
1	0.78	520	1.46	0.914	N/A			N/A			
2					A.P. I. Gravity of Liquid Hydrocarbons			N/A			
3					Specific Gravity Separator Gas			0.654			
4					Specific Gravity Flowing Fluid			N/A			
5					Critical Pressure			662 P.S.I.A.			
					Critical Temperature			354 R.			
P <sub>c</sub> 1043.2		P <sub>c2</sub> 1088.3									
No.	P <sub>i</sub> <sup>2</sup>	P <sub>w</sub>	P <sub>w</sub> <sup>2</sup>	P <sub>c</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup>	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = \frac{1.089}{1.089 - 0.457}$						
1	86	297.6	88.5	999.7	(2) $\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \frac{1.089}{0.457}$						
2					AOF = Q $\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \frac{0.457}{0.457}$						
3											
4											
5											
Absolute Open Flow		457		Mcf/d @ 15.025		Angle of Slope (°)		45		Slope n: 1	
Remarks: * NO LIQUID MADE DURING TEST.											
Approved By Division:			Conducted By: PRO WELL TESTING			Calculated By: MB			Checked By: BM		