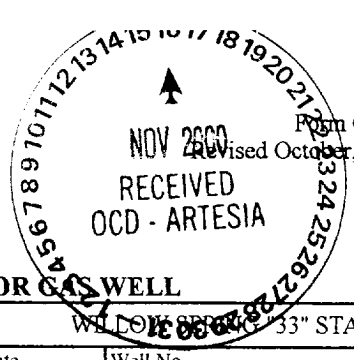
Submit in duplicate to appropriate district office.
See Rule 401 & Rule 1122

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

Form C-122
Revised October, 1999



C/S/2

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator	RELIANCE ENERGY INC.				Lease or Unit Name		WILLOW SPRINGS "33" STATE	
Type Test: ☑ Initial ☐ Annual ☐ Special					Test Date: 10/31/00		Well No.: 1	
Completion Date: 8/25/00	Total Depth: 4250			Plug Back TD: 4224	Elevation		Unit Ltr - Sec - TWP - Rge: L 33 4S 25E	
Csg. Size: 5 1/2	Wt.: 15.5	d: 4.892	Set At: 4247	Perforations: From: 3602	To: 4190		County: CHAVES	
Tbg. Size: 2 3/8	Wt.: 4.7	d: 1.995	Set At: 4172	Perforations: From:	To:		Pool: Pecos Slope Abo	
Type Well-Single-Bradenhead-G.G. or G.O. Multiple: SINGLE				Packer Set At: 3545			Formation: ABO	
Producing Thru: TUBING	Reservoir Temp.°F: 109.5	Mean Annual Temp. °F: 60		Baro. Press.-P_a: 13.2			Connection: SALES	

L	H	Gg	%CO_2	%N_2	%H_2S	Prover	Meter Run	Taps
3545	3545	0.663	0.11	9.06	N/A	N/A	2.067	FLG

	FLOW DATA				TUBING DATA		CASING DATA		
No.	Prover Line Size x Orifice Size	Press p.s.i.g.	Diff. h_w	Temp. °F	Press p.s.i.g.	Temp. °F	Press p.s.i.g.	Temp. °F	Duration of Flow
SI					980	N/A	PKR	N/A	
1	2.067 X 1.250	140	8	60	150				24 HRS
2									
3									
4									
5									

RATE OF FLOW CALCULATIONS

No.	COEFFICIENT (24 Hour)	$\sqrt{h_w P_m}$	Pressure P_m	Flow Temp. Factor Ft.	Gravity Factor F_g	Super Compress Factor F pv	Rate of Flow Q. Mcfd
1	8.12	35	153.2	1	1.228	1.045	280
2							
3							
4							
5							

No.	P_r	Temp. °R	T_r	Z
1	0.77	520	1.46	0.916
2				
3				
4				
5				

Gas Liquid Hydrocarbon Ratio: N/A Mcf/bbl.
A.P. I. Gravity of Liquid Hydrocarbons: N/A Deg.
Specific Gravity Separator Gas: 0.663 XXXXXXX
Specific Gravity Flowing Fluid: N/A XXXXX N/A
Critical Pressure: 668 P.S.I.A. P.S.I.A.
Critical Temperature: 356 R. R

P_c 993.2 P_c^2 986.4

No.	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1	26.6	166.6	27.7	958.7
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} =$ 1.029 (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n =$

$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n =$ 0.288

Absolute Open Flow	288	Mcfd @ 15.025	Angle of Slope (): 45	Slope n: 1

Remarks: * NO LIQUID MADE DURING TEST.

Approved By Division:	Conducted By:	Calculated By:	Checked By:
	PRO WELL TESTING	MB	BM