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

NOV 2000
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Form C-122
Revised October, 1999

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator				Lease or Unit Name			
RELIANCE ENERGY INC.				WILLOW SPRING "32" STATE			
Type Test: ☑ Initial ☐ Annual ☐ 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: Pecos Slope Abo
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_a: 13.2			Connection: SALES

L	H	Gg	%CO_2	%N_2	%H_2S	Prover	Meter Run	Taps
3774	3774	0.654	0.04	7.67	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					1030	N/A	PKR	N/A	
1	2.067 X 1.000	115	54	60	280				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	4.946	83.2	128.2	1	1.237	1046	420
2							
3							
4							
5							

No.	P_r	Temp. °R	T_r	Z
1	0.78	520	1.46	0.914
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: 0.654 XXXXXXX
Specific Gravity Flowing Fluid: N/A XXXXX
Critical Pressure: 662 P.S.I.A. ____ P.S.I.A.
Critical Temperature: 354 R. ____ R

P_c 1043.2 P_c^2 1088.3

No.	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1	86	297.6	88.5	999.7
2				
3				
4				
5				

(1) $\dfrac{P_c^2}{P_c^2 - P_w^2} =$ 1.089 (2) $\left(\dfrac{P_c^2}{P_c^2 - P_w^2}\right)^n =$ 1.089

AOF = Q $\left(\dfrac{P_c^2}{P_c^2 - P_w^2}\right)^n =$ 0.457

Absolute Open Flow: 457 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