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

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Form C-122
Revised October, 1999

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator: GRUY PETROLEUM MANAGEMENT					Lease or Unit Name: PENNZOIL FED COM				
Type Test: ☑ Initial ☐ Annual ☐ Special						Test Date: 12/4/02		Well No.: 2	
Completion Date: 11/26/02		Total Depth: 11950		Plug Back TD: 11904		Elevation:		Unit Ltr - Sec - TWP - Rge: 15 24S 26E	
Csg. Size: 5 1/2	Wt.: 17	d: 4.892	Set At: 11950	Perforations: From: 11420	To: 11758			County: EDDY	
Tbg. Size: 2 3/8	Wt.: 4.7	d: 1.995	Set At: 11436	Perforations: From:	To:			Pool: ~~White City~~ → PENN	
Type Well-Single-Bradenhead-G.G. or G.O. Multiple: SINGLE				Packer Set At: 11442				Formation: ~~MORROW~~	
Producing Thru: Tubing	Reservoir Temp.°F: 188	Mean Annual Temp. °F: 60		Baro. Press.-P_a: 13.2				Connection: SALES	
L: 11442	H: 11442	Gg: 0.593	%CO_2: 2.015	%N_2: 0.202	%H_2S: N/A	Prover: N/A	Meter Run: 4.892		Taps: 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					2671	N/A	PKR	N/A	
1	4.892 X 2.250	435	0.5	67	2560				1 HR
2	4.892 X 2.250	435	1.8	63	2459				1 HR
3	4.892 X 2.250	435	3.6	69	2382				1 HR
4	4.892 X 2.250	435	10	64	2260				1 HR
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							597
2							1030
3	TOTAL	FLOW	METER				1412
4							2480
5							

No.	P_r	Temp. °R	T_r	Z
1				
2				
3	TOTAL	FLOW	METER	
4				
5				

Gas Liquid Hydrocarbon Ratio: N/A Mcf bbl.
A.P. I. Gravity of Liquid Hydrocarbons: N/A Deg.
Specific Gravity Separator Gas: 0.593 XXXXXXX
Specific Gravity Flowing Fluid: N/A XXXXX
Critical Pressure: 679 P.S.I.A. P.S.I.A.
Critical Temperature: 348 R. R

P_c 2684.2 P_c^2 7204.9

No.	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		2575.9	6635	569.9
2		2480.4	6152.2	1052.7
3		2411	5812.7	1392.2
4		2323.9	5400.3	1804.6
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} =$ 3.992 (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n =$ 3.992

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n =$ 9901.1

Absolute Open Flow: 9901.1 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	MERV BUECKER	MB