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

30-025-36559

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator: GRUY PETROLEUM		Lease or Unit Name: NEW MEXICO ST DA	
Type Test: ☑ Initial ☐ Annual ☐ Special		Test Date: 7/8/2004	Well No.: 3
Completion Date: 10/28/2004	Total Depth: 13350	Plug Back TD:	Elevation:
Unit Ltr - Sec - TWP - Rge: C 31 21-S 35-E			
Csg. Size: 4 1/2 / Wt.: 14.5 / d: / Set At:	Perforations: From: 12076 To: 12088	County: LEA	
Tbg. Size: 2 7/8 2 3/8 / Wt.: 6.5 4.7 / d: 2.441 1.995 / Set At: 10950 12454	Perforations: From: To:	Pool:	
Type Well-Single-Bradenhead-G.G. or G.O. Multiple: SINGLE	Packer Set At: 12454	Formation: MORROW	
Producing Thru: TUBING	Reservoir Temp.: 178.65@ 12454	Mean Annual Temp.: 60	Baro. Press.-P_a: 13.2
Connection: SALES			

L	H	Gg	%CO_2	%N_2	%H_2S	Prover	Meter Run	Taps
12454	12454	0.627	1.059	3.126				FLG

	FLOW DATA				TUBING DATA		CASING DATA		
No.	Prover Line Size x Orifice Size	Press p.s.i.g.	Diff. h_w	Temp.	Press p.s.i.g.	Temp.	Press p.s.i.g.	Temp.	Duration of Flow
SI					805				
1					45				
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							
2	TOTAL	FLOW	METER				140
3							
4							
5							

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

P_c 818.2 P_c2 669.5

No.	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		61.4	3.8	665.7
2				
3				
4				
5				

Gas Liquid Hydrocarbon Ratio	DRY GAS Mcf/bbl
A.P. I. Gravity of Liquid Hydrocarbons	DRY Deg.
Specific Gravity Separator Gas	0.627 XXXXXXX
Specific Gravity Flowing Fluid	XXXXX G MIX = .698
Critical Pressure	*671 P.S.I.A. P.S.I.A.
Critical Temperature	*349 R. R

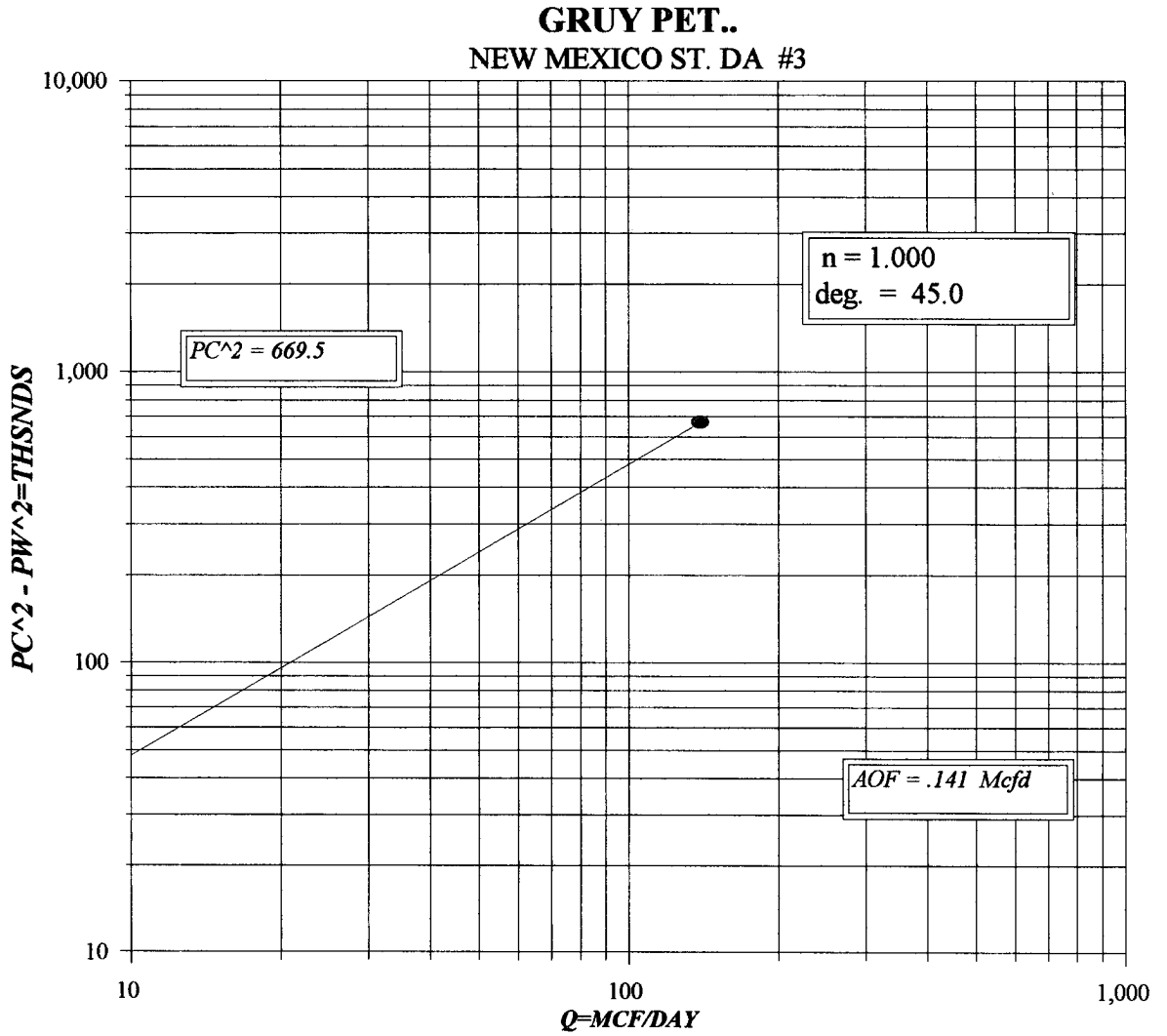
(1) $\frac{P_c^2}{P_c^2 - P_w^2} =$ 1.006 (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n =$ 1.006

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n =$ 0.141

Absolute Open Flow 141 Mcfd @ 15.025 | Angle of Slope (): 45 | Slope, n: 1

Remarks: *= CORRECTION TO 1.059 % CO2 & 3.126% N2 NO FLOW PRODUCED

Approved By Division:	Conducted By:	Calculated By:	Checked By:
	PRO WELL TESTING	MERV BUECKER	BM


GRUY PET..
NEW MEXICO ST. DA #3
10,000
1,000
100
10
PC^2 - PW^2=THSNDS
PC^2 = 669.5
n = 1.000
deg. = 45.0
AOF = .141 Mcfd
10
100
1,000
Q=MCF/DAY