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

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator	EOG RESOURCES, INC.				Lease or Unit Name	TOP HAT 19 ST.			
Type Test ☑ Initial ☐ Annual ☐ Special					Test Date	6/3/04	Well No.	1	
Completion Date	Total Depth		Plug Back TD		Elevation		Unit Ltr - Sec - TWP - Rge	19 21 33	
Csg. Size	Wt.	d	Set At	Perforations:			County		
4 1/2	15.1			From: 14038	To: 14044		EDDY		
Tbg. Size	Wt.	d	Set At	Perforations:			Pool		
2 7/8	6.5	2.441	13898	From:	To:				
Type Well-Single-Bradenhead-G.G. or G.O. Multiple				Packer Set At			Formation		
SINGLE				13898			MORROW		
Producing Thru	Reservoir Temp.°F		Mean Annual Temp. °F	Baro. Press.-P_a			Connection		
TBG	191.7 @ 13898		60	13.2			DUKE ENERGY		
L	H	Gg	%CO_2	%N_2	%H_2S	Prover	Meter Run		Taps
13898	13898	0.638	0.45	1.142	N/A	N/A	4.026		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					3000		PKR		24 HRS
1					2400		"		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							680
2							
3		METERED		BY		TOTAL FLOW	
4							
5							

No.	P_r	Temp. °R	T_r	Z
1				
2				
3			N/A	
4				
5				

Gas Liquid Hydrocarbon Ratio	170	Mcf bbl.	
A.P. I. Gravity of Liquid Hydrocarbons	50.2	Deg.	
Specific Gravity Separator Gas	0.638	XXXXXXX	
Specific Gravity Flowing Fluid	XXXXX	GMIX .656	
Critical Pressure	* 669	P.S.I.A.	670 P.S.I.A.
Critical Temperature	* 365	R.	375 R

P_c 3013.2 P_c^2 9079.4

No.	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		2414.5	5829.8	3249.6
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} =$ 2.794 (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n =$ 2.794

$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n =$ 79825

RECEIVED
AUG 2004
Hobbs OCD

Absolute Open Flow	1,900	Mcfd @ 15.025	Angle of Slope Q:	45	Slope n:	1	

Remarks: * Corrected to 1.142 % N2 - Well produced 4.00 BBLS 50.2 API GR condensate.

Approved By Division:	Conducted By:	Calculated By:	Checked By:
	BEACON RESOURCES	BM	BM

O COMPANY : EOG RESOURCES' INC LEASE :TOP HAT 19 ST. WELL NO. : 1

UNIT : SECTION : 19 TOWNSHIP : 21

L : 13898 H : 13898 L/H : 1 G/GMIX : 0.656

%CO2 : 0.45 %N2 : 1.142 H2S : DATE :6-3--04

d : 2.441 Fr :0.010763 GH : 9117.1 RANGE : 33

VOL 1 : 680 PSIA 1 : 2413.2 RESV.TEMP 191.7

VOL 2 : PSIA 2 :

VOL 3 : PSIA 3 : SHUT-IN PR= 3013.2

VOL 4 : PSIA 4 :

PCR : 670

TCR : 375

LINE	RATE 1		RATE 2		RATE 3		RATE 4	
	`1ST	`2ND	`1ST	``2ND	`1ST	`2ND	`1ST	`2ND
1 QM	0.680	0.680	0.000	0.000	0.000	0.000	0.000	0.000
2 TW	534	534	534	534	534	534	534	534
3 Ts	651.7	651.7	651.7	651.7	651.7	651.7	651.7	651.7
4 T	592.9	592.9	592.9	592.9	592.9	592.9	592.9	592.9
PR (est)	3.60		0.00		0.00		0.00	
5 Z(est)	0.794	0.805	ERR	ERR	ERR	ERR	ERR	ERR
6 TZ	471.0	477.5	ERR	ERR	ERR	ERR	ERR	ERR
7 GH/TZ	19.358	19.093	ERR	ERR	ERR	ERR	ERR	ERR
8 eS	2.067	2.046	ERR	ERR	ERR	ERR	ERR	ERR
9 1-e-S	0.516	0.511	ERR	ERR	ERR	ERR	ERR	ERR
10 Pt	2413.2	2413.2	0.0	0.0	0.0	0.0	0.0	0.0
11 Pt2 /1000	5823.5	5823.5	0.0	0.0	0.0	0.0	0.0	0.0
12 Fr	0.010763	0.010763	0.010763	0.010763	0.010763	0.010763	0.010763	0.0107631
13 Fc=FrTZ	5.069	5.139	ERR	ERR	ERR	ERR	ERR	ERR
14 FcQm	3.45	3.49	ERR	ERR	ERR	ERR	ERR	ERR
15 L/H(FcQm)	11.9	12.2	ERR	ERR	ERR	ERR	ERR	ERR
16 Fw	6.132341	6.244785	ERR	ERR	ERR	ERR	ERR	ERR
17 Pw2	5829.7	5829.8	ERR	ERR	ERR	ERR	ERR	ERR
18 Ps2	12048.0	11929.1	ERR	ERR	ERR	ERR	ERR	ERR
19 Ps	3471.0	3453.8	ERR	ERR	ERR	ERR	ERR	ERR
20 P	2942.1	2933.5	ERR	ERR	ERR	ERR	ERR	ERR
21 Pr	4.39	4.38	ERR	ERR	ERR	ERR	ERR	ERR
22 Tr	1.58	1.58	1.58	1.58	1.58	1.58	1.58	1.58
23 Z	0.805	0.805	ERR	ERR	ERR	ERR	ERR	ERR

Pc = 3013.2 Pc2 = 9079.4

Pt2 = 5823.5 Pw = 2414.5

0.0 ERR

0.0 ERR

0.0 ERR

Pc2-Pw2= 3249.6 Pw2 = 5829.8

ERR ERR

ERR ERR

ERR ERR

n = 1.000

Pc2/(Pc2-Pw2) = 2.794

ERR

ERR

ERR

[Pc2/Pc2-Pw2]n = 2.794

ERR

ERR

ERR

AOF= Q 1.900

ERR

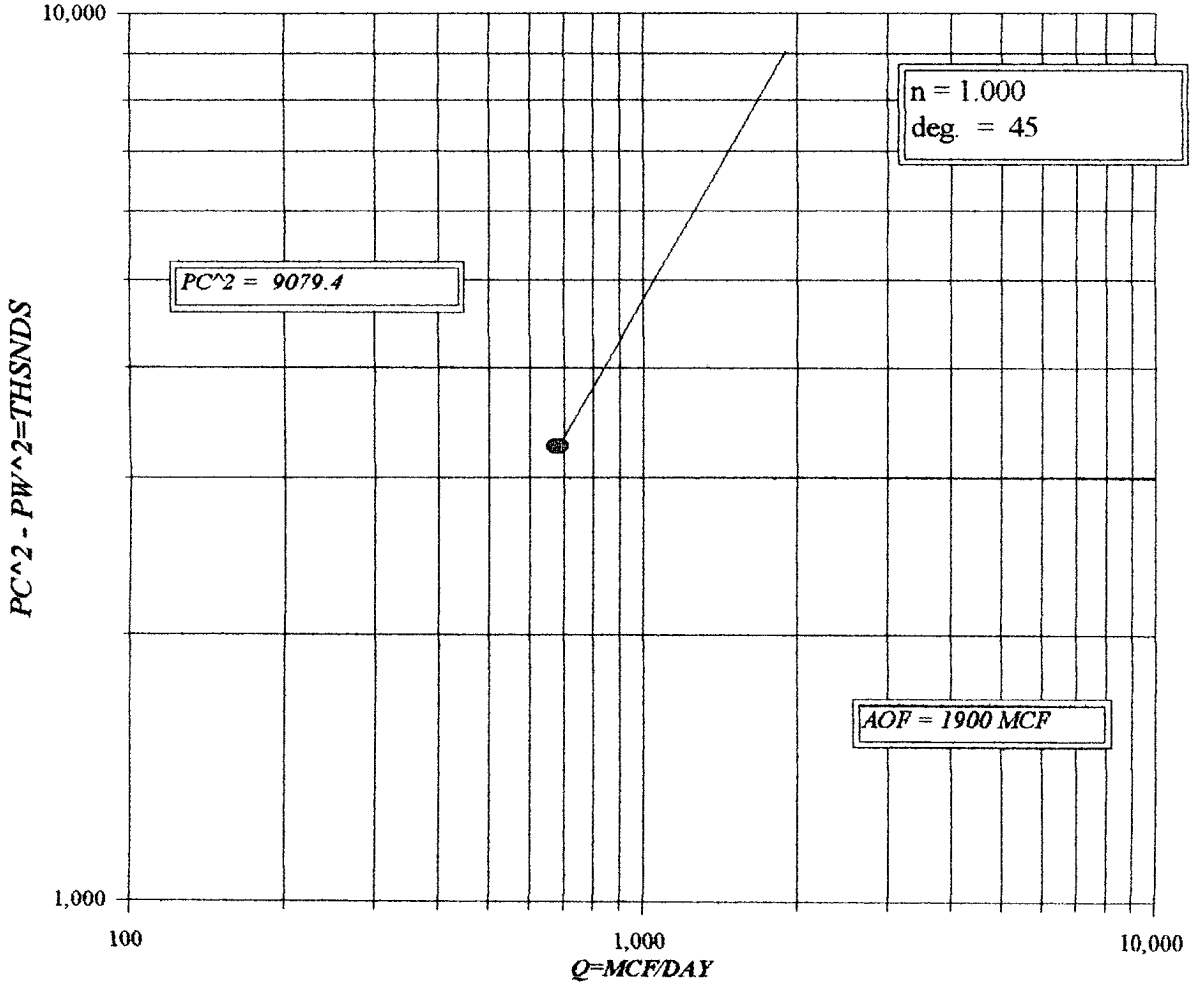
ERR

ERR

FORM C122-D

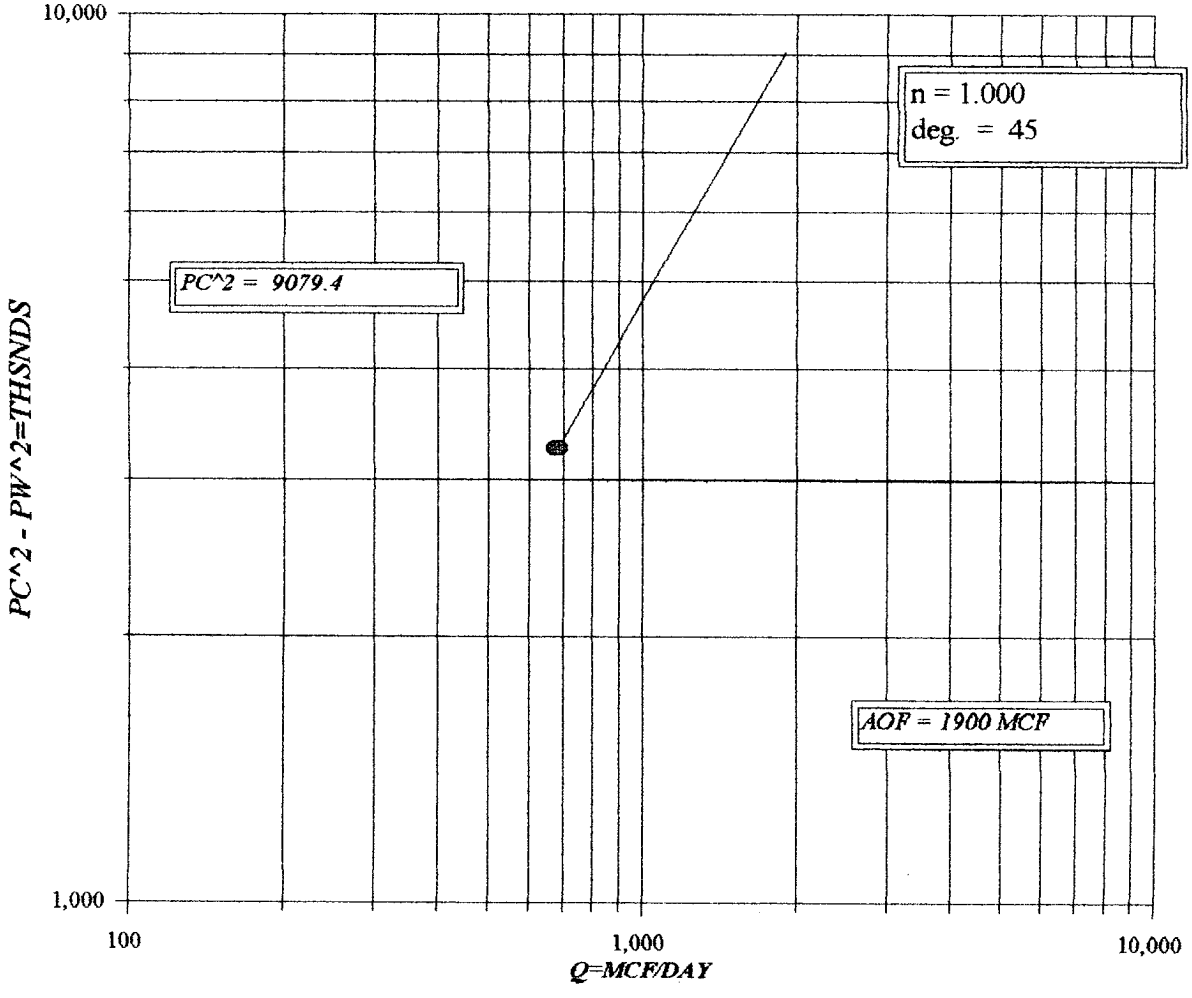
EOG RESOURCES, INC.

TOP HAT 19 ST. # 1



EOG RESOURCES, INC.

TOP HAT 19 ST. # 1



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NEW MEXICO G.O.R./G. MIX

NO. OF BBLS PRODUCED	=	4.0
API GRAVITY @ 60 DEG.	=	50.2
SPECIFIC GRAVITY OF GAS	=	0.6380
TOTAL GAS PRODUCED	=	680
G.O.R.	=	170.000
G.MIX	=	0.656