

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

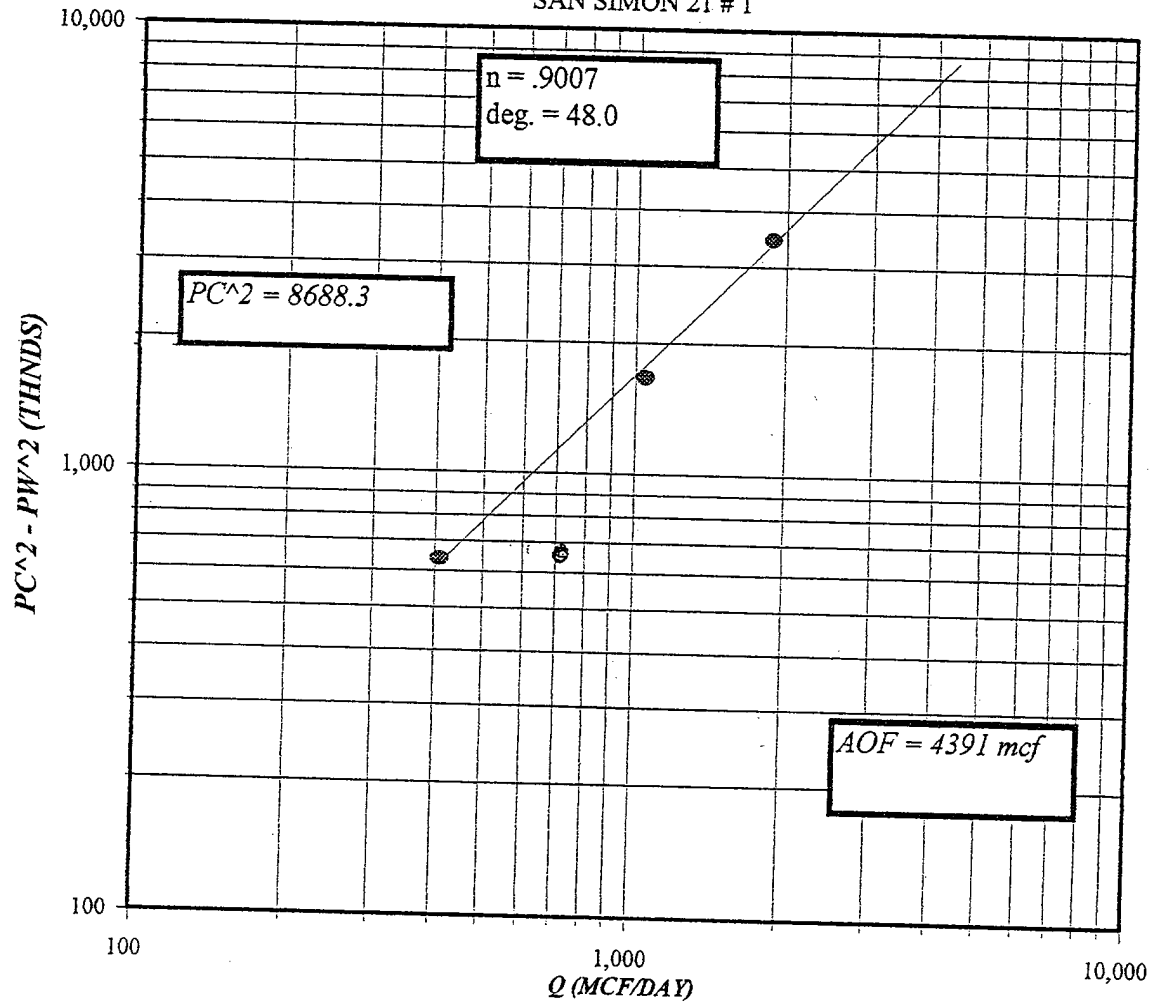
30-025-36090

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator EOG RESOURCES INC.										Lease or Unit Name SAN SIMON 21 State									
Type Test ☒ Initial ☐ Annual ☐ Special										Test Date 5/30/03					Well No. 1				
Completion Date 3/15/03					Total Depth 12690					Plug Back TD 12684					Elevation				
Csg. Size 4 1/2		Wt. d		Set At 12684		Perforations: From: 12367 To: 12378					Unit Ltr - Sec - TWP - Rge H 21 21 35								
Tbg. Size 2 7/8		Wt. 6.5		d 2.441		Set At 10647		Perforations: From: To:					County LEA						
Type Well-Single-Bradenhead-G.G. or G.O. Multiple SINGLE										Packer Set At 10647					Pool Osudo				
Producing Thru Tbg. Size					Reservoir Temp. °F 147.3 @ 11000					Mean Annual Temp. °F 60					Baro. Press. -P _a 13.2				
L * 11000		H * 11000		Gg 0.616		%CO ₂ 0.54		%N ₂ 0.632		%H ₂ S N/A		Prover N/A		Meter Run 4.026		Taps FLG			
FLOW DATA										TUBING DATA					CASING DATA				
No.	Prover Line Size	Orifice x 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	Press p.s.i.g.	Temp. °F	Press p.s.i.g.	Temp. °F	Press p.s.i.g.	Temp. °F	Duration of Flow			
SI																			
1	4 X	1.750	604	0.7	93	2779		PKR								24 HRS			
2	4 X	1.750	604	2.2	86	2665		"								1 HR			
3	4 X	1.750	605	4.6	73	2548		"								1 HR			
4	4 X	1.750	608	13.8	81	2012		"								1 HR			
5																			
RATE OF FLOW CALCULATIONS																			
No.	COEFFICIENT (24 Hour)		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								410											
2								722											
3	MEASURED			BY	TOTAL	FLOW	METER	1,050											
4								1,885											
5																			
No.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio N/A Mcf bbl.														
1					A.P. I. Gravity of Liquid Hydrocarbons N/A Deg.														
2					Specific Gravity Separator Gas 0.616														
3		N/A			Specific Gravity Flowing Fluid XXXXX														
4					Critical Pressure 671 P.S.I.A.														
5					Critical Temperature 362 R														
P _c 2547.1 P _w 8688.3																			
No.	P _i ²	P _w	P _w ²	P _c ² - P _w ²	(1) $P_c^2 = \frac{2.526}{P_c^2 - P_w^2}$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 4.391$														
1		2837.0	8048.6	639.7															
2		2721.3	7405.5	682.8															
3		2534.1	6421.7	1666.6															
4		2156.0	4648.3	3440.0															
5																			
Absolute Open Flow 4.391 Mcfd @ 15.025				Angle of Slope (°): 48				Slope n: .900											
Remarks: * = BHP INST SET AT THIS DEPTH NO FLUID PRODUCED																			
Approved By Division: 				Conducted By: Pro well Testers & Wire Line				Calculated By: BM				Checked By: BM							

EOG RESOURCES INC.

SAN SIMON 21 #1



WORK SHEET FOR CALCULATION OF WELLHEAD PRESSURE (~~P_w~~ or P_w)
FROM KNOWN BOTTOM HOLE PRESSURE (P_f or P_s)

FORM C-122F

COMPANY EOG RESOURCES INC

UNIT H

L

11000

LEASE : S SAMON 21WELL NO. : 1

DATE 5-30-03

SECTION : 21

TWNSHP : 21

RANGE : 35

H : 11000

L/H : 1

G/GMIX : 0.6160

CO2 : 0.54

N2 : 0.632

H2S :

GH : 6776.0

PCR : 671

TCR : 362

LINE

	1	2	3	4	5	6	7	8
1	TW(W.H. R)	534	534	534	534	534	534	534
2	Ts(B.H. R)	644.0	644.0	644.0	644.0	644.0	644.0	644.0
3	T=(Tw+Ts/2)	589.0	589.0	589.0	589.0	589.0	589.0	589.0
4	Z (EST.)	0.920	0.838	0.850	0.831	0.838	0.823	0.815
5	TZ	542	493	500	489	493	485	480
6	GH/TZ	12.501	13.736	13.542	13.845	13.732	13.972	14.118
7	eS(TABLE XIV)	1.598	1.674	1.662	1.681	1.674	1.689	1.698
8	Pf or Ps	3670.333	3670.333	3527.945	3527.945	3293	3293	2809.4
9	Pf2 or Ps2	13471.3	13471.3	12446.4	12446.4	10843.8	10843.8	7892.7
10	Pc2=Pf/eS or Pw2=Ps2/eS	8429.9	8048.3	7490.2	7405.6	6479.6	6421.5	4664.7
11	Pc or Pw	2903	2837	2737	2721	2546	2534	2160
12	P=(Pw+Ps/2)or(Pc+Pf/2)	3287	3254	3132	3125	2919	2914	2485
13	Pr=(P/Pcr)	4.90	4.85	4.67	4.66	4.35	4.34	3.70
14	Tr(T/Tcr)	1.63	1.63	1.63	1.63	1.63	1.63	1.63
15	Z (TABLE XI)	0.838	0.836	0.831	0.831	0.823	0.823	0.815

PW 1 : 2837.0 PW 2 : 2721.3 PW 3 : 2534.1 PW 4 : 2156.0

WORK SHEET FOR CALCULATION OF WELLHEAD PRESSURE (P_c or P_w)
FROM KNOWN BOTTOM HOLE PRESSURE (P_f or P_s)

FORM C-122F

COMPANY EOG RESOURCES INC
UNIT H
L 11000

LEASE : S SIMON 21WELL NO. : 1
SECTION : 21 TWSHP : 21
H : 11000 L/H : 1
CO2 : 0.54 N2 : 0.632
GH : 6776.0 PCR : 671

DATE 5-30-03
RANGE : 35
G/GMIX : 0.6160
H2S :
TCR : 362

LINE		1	2	3	4	5	6	7	8
1	TW(W.H. R)	534	534	534	534	534	534	534	534
2	Ts(B.H. R)	644.0	644.0	644.0	644.0	644.0	644.0	644.0	644.0
3	T=(Tw+Ts/2)	589.0	589.0	589.0	589.0	589.0	589.0	589.0	589.0
4	Z (EST.)	0.929	0.844	ERR	ERR	ERR	ERR	ERR	ERR
5	TZ	547	497	ERR	ERR	ERR	ERR	ERR	ERR
6	GH/TZ	12.384	13.639	ERR	ERR	ERR	ERR	ERR	ERR
7	eS(TABLE XIV)	1.591	1.668	ERR	ERR	ERR	ERR	ERR	ERR
8	Pf or Ps	3806.573	3806.573	0	0	0	0	0	0
9	Pf2 or Ps2	14490.0	14490.0	0.0	0.0	0.0	0.0	0.0	0.0
10	Pc2=Pf/eS or Pw2=Ps2/eS	9107.1	8688.6	ERR	ERR	ERR	ERR	ERR	ERR
11	Pc or Pw	3018	2948	ERR	ERR	ERR	ERR	ERR	ERR
12	P=(Pw+Ps/2)or(Pc+Pf/2)	3412	3377	ERR	ERR	ERR	ERR	ERR	ERR
13	Pr=(P/Pcr)	5.09	5.03	ERR	ERR	ERR	ERR	ERR	ERR
14	Tr(T/Tcr)	1.63	1.63	1.63	1.63	1.63	1.63	1.63	1.63
15	Z (TABLE XI)	0.844	0.842	ERR	ERR	ERR	ERR	ERR	ERR

SIP = PW 1 : 2947.6 PW 2 : ERR PW 3 : ERR PW 4 : ERR