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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

APR 18 2005

ODD-ARTS-01

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator EOG RESOURCES, INC.					Lease or Unit Name STATE A 32				
Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 3/30/05		Well No. 3		
Completion Date		Total Depth		Plug Back TD 11270		Elevation		Unit Ltr - Sec - TWP - Rge 32 19 28	
Csg. Size 5 1/2	Wt. 17#	d	Set At	Perforations: From: 8866 To: 9632			County EDDY		
Tbg. Size 2 7/8	Wt. 6.5	d 2.441	Set At 8731	Perforations: From: To:			Pool		
Type Well-Single-Bradenhead-G.G. or G.O. Multiple SINGLE				Packer Set At 8731			Formation PENN		
Producing Thru TBG		Reservoir Temp. °F 161.3 @ 8731		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2		Connection SALES	
L 8731	H 8731	Gg 0.745	%CO ₂ 0.442	%N ₂ 1.3	%H ₂ S X	Prover N/A	Meter Run 3.066	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
SI						2515		PKR	
1			450			1980		"	
2			450			1940		"	
3			450			1900		"	
4			491			1880		"	
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								906	
2								1,101	
3				TOTAL		FLOW	METER	1,305	
4								1,520	
5									
No.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio 14.381 Mcf bbl.				
1					A.P. I. Gravity of Liquid Hydrocarbons 53.2 Deg.				
2					Specific Gravity Separator Gas 0.745 XXXXXXXX				
3		N/A			Specific Gravity Flowing Fluid XXXXXX GMIX = .941				
4					Critical Pressure * 666 P.S.I.A. 661 P.S.I.A.				
5					Critical Temperature * 405 R. 471 R				
P _c 2528.2 P _{c2} 6391.8									
No.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = \frac{2.292}{\quad}$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \frac{2.292}{\quad}$				
1		1994.9	3979.6	2412.2					
2		1955.7	3824.8	2567					
3		1916.7	3673.9	2717.9					
4		1898	3602.5	2789.3					
5					AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \frac{3.483}{\quad}$				
					79825				
Absolute Open Flow		3.483		Mcf @ 15.025		Angle of Slope (°):		45	
						Slope n:		1	
Remarks: Well produced 14.0 bbl s condensate & no H2O -									
Approved By Division:			Conducted By: Beacon Resources, L.L.C.			Calculated By: BM		Checked By: BM	

O COMPANY : EOG RESOURCES ,INC LEASE : ST. A 32		WELL NO. : 3		Pc = 2528.2	Pc2 = 6391.8 *
UNIT : SECTION : 32		TOWNSHIP : 19			*
L : 8731	H : 8731	L/H : 1	G/GMIX : 0.941	Pt2 = 3972.8	Pw = 1994.9 *
%CO2 : 0.442	%W2 : 1.3	H2S :	DATE : 3-30-05	3815.0	1955.7 *
d : 2.441	Fr : 0.010763	GH : 8215.9	RANGE : 28	3660.3	1916.7 *
=====				3584.2	1898.0 *

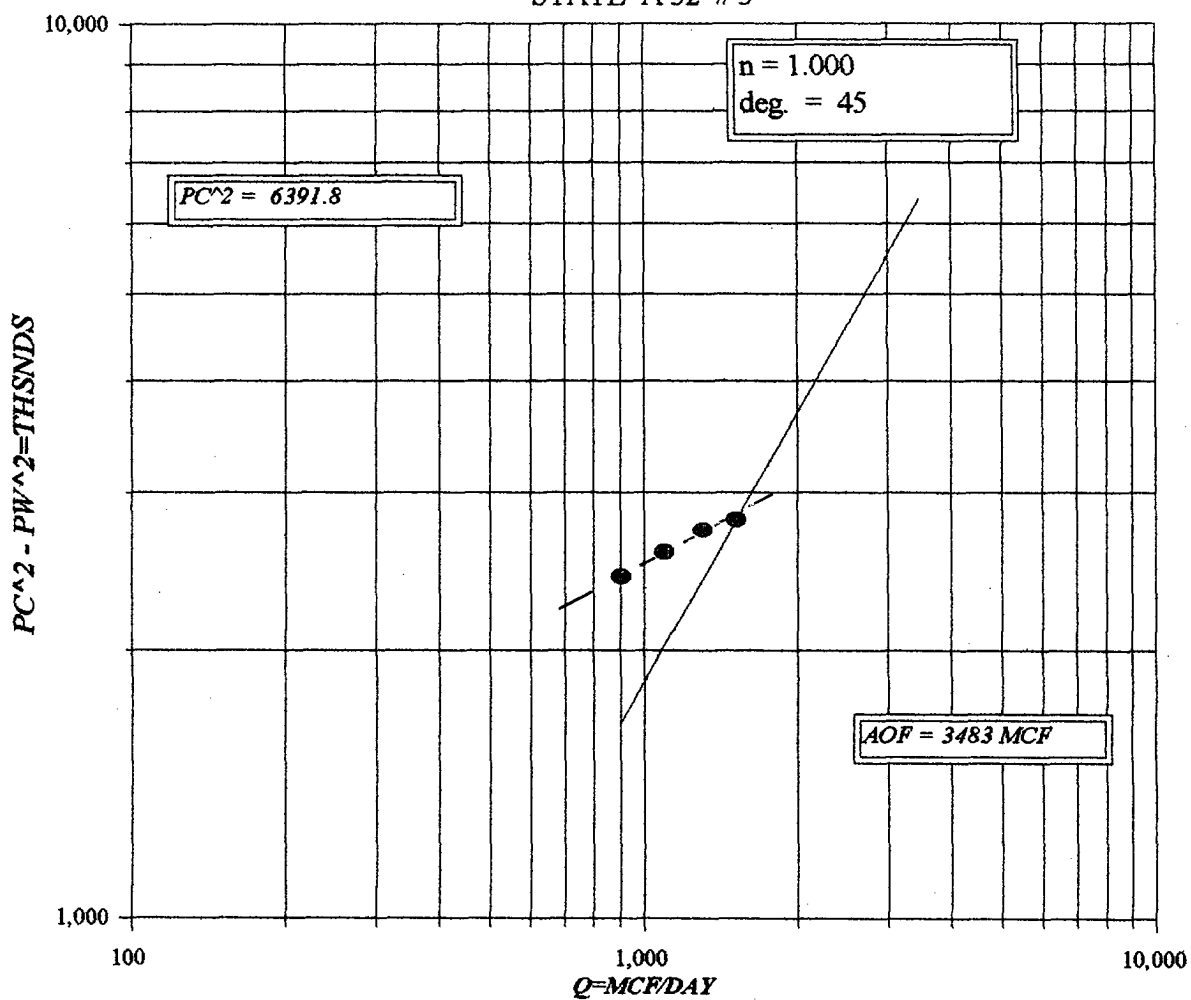
VOL 1 : 906	PSIA 1 : 1993.2	RESV.TEMP 161.3	Pc2-Pw2= 2412.2	Pw2 = 3979.6 *
VOL 2 : 1101	PSIA 2 : 1953.2		2567.0	3824.8 *
VOL 3 : 1305	PSIA 3 : 1913.2	SHUT-IN PR= 2528.2	2717.9	3673.9 *
VOL 4 : 1520	PSIA 4 : 1893.2		2789.3	3602.5 *
PCR : 661			n = 1.000	*
TCR : 471				*

LINE	RATE 1		RATE 2		RATE 3		RATE 4		
	1ST	2ND	1ST	2ND	1ST	2ND	1ST	2ND	
1 QM	0.906	0.906	1.101	1.101	1.305	1.305	1.520	1.520	
2 TW	534	534	534	534	534	534	534	534	
3 Ts	621.3	621.3	621.3	621.3	621.3	621.3	621.3	621.3	
4 T	577.7	577.7	577.7	577.7	577.7	577.7	577.7	577.7	
PR (est)	3.02		2.95		2.89		2.86		
5 Z(est)	0.540	0.599	0.538	0.593	0.537	0.588	0.536	0.585	
6 TZ	312.2	346.1	311.1	342.8	310.1	339.5	309.7	338.0	
7 GH/TZ	26.317	23.739	26.413	23.967	26.492	24.197	26.525	24.309	
8 eS	2.683	2.436	2.693	2.457	2.701	2.478	2.704	2.488	
9 l-e-S	0.627	0.589	0.629	0.593	0.630	0.596	0.630	0.598	
10 Pt	1993.2	1993.2	1953.2	1953.2	1913.2	1913.2	1893.2	1893.2	
11 Pt2 /1000	3972.8	3972.8	3815.0	3815.0	3660.3	3660.3	3584.2	3584.2	
12 Fr	0.010763	0.010763	0.010763	0.010763	0.010763	0.010763	0.010763	0.0107631	
13 Fc=FrTZ	3.360	3.725	3.348	3.690	3.338	3.655	3.334	3.638	
14 FcQm	3.04	3.37	3.69	4.06	4.36	4.77	5.07	5.53	
15 L/H(FcQm)	9.3	11.4	13.6	16.5	19.0	22.7	25.7	30.6	
16 Fw	5.813087	6.713447	8.540995	9.784233	11.94843	13.56588	16.18107	18.285964	
17 Pw2	3978.7	3979.6	3823.5	3824.8	3672.3	3673.9	3600.4	3602.5	
18 Ps2	10674.4	9692.8	10294.9	9395.9	9917.1	9103.2	9735.1	8964.0	
19 Ps	3267.2	3113.3	3208.6	3065.3	3149.1	3017.1	3120.1	2994.0	
20 P	2630.2	2553.3	2580.9	2509.2	2531.2	2465.2	2506.7	2443.6	
21 Pr	3.98	3.86	3.90	3.80	3.83	3.73	3.79	3.70	
22 Tr	1.23	1.23	1.23	1.23	1.23	1.23	1.23	1.23	
23 Z	0.599	0.590	0.593	0.585	0.588	0.581	0.585	0.578	

Pc2/(Pc2-Pw2) =	2.650	*
	2.490	*
	2.352	*
	2.292	*
[Pc2/Pc2-Pw2]n =	2.650	*
	2.490	*
	2.352	*
	2.292	*
AOF= Q	2.401	*
	2.741	*
	3.069	*
	3.483	*
FORM C122-D		*

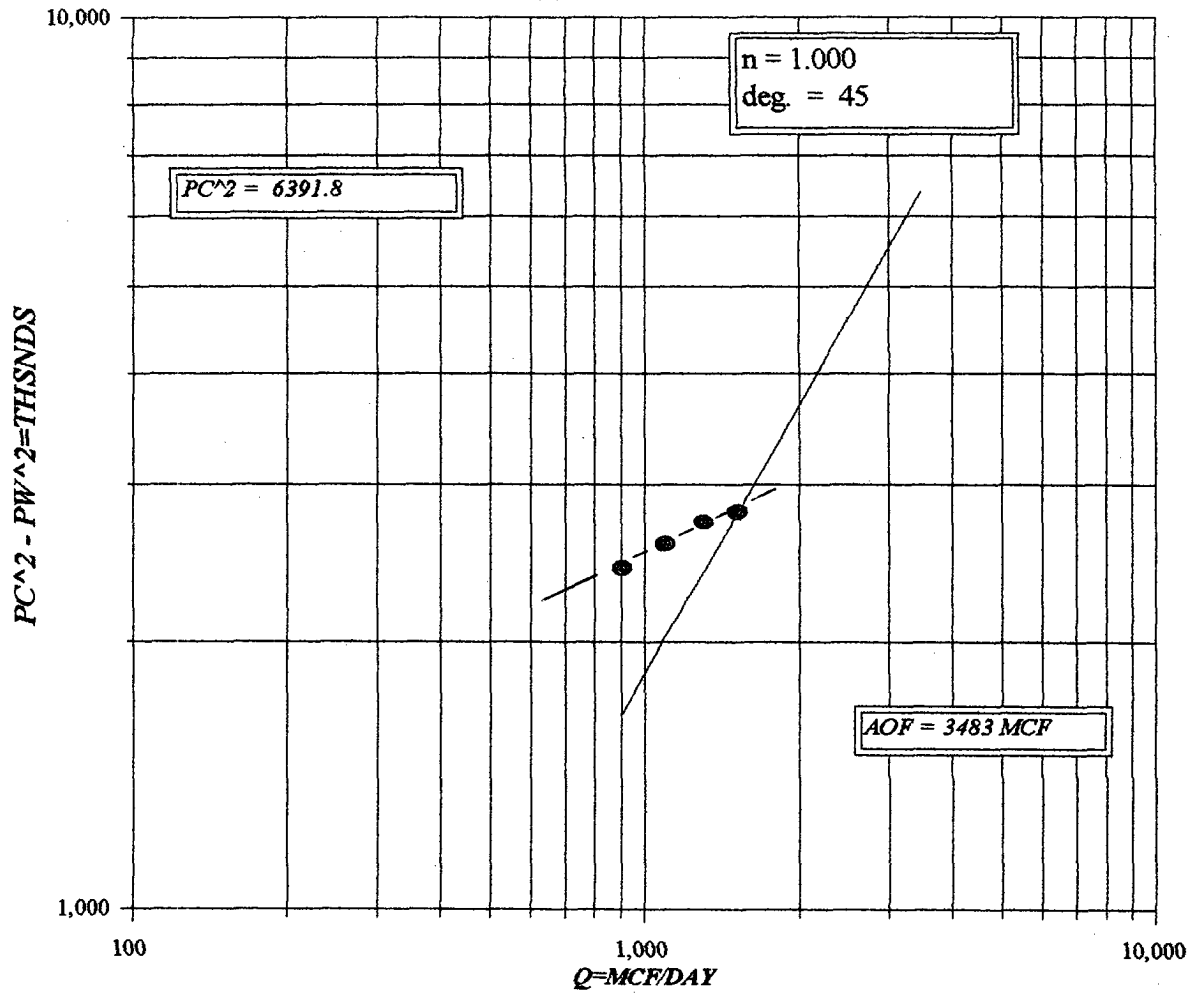
EOG RESOURCES, INC.

STATE A 32 #3



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

NO. OF BBLs PRODUCED = 14.0

API GRAVITY @ 60 DEG. = 53.2

SPECIFIC GRAVITY OF GAS = 0.7450

XX

TOTAL GAS PRODUCED = 201

G.O.R. = 14.381

G.MIX = 0.941