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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
RECEIVED
DEC - 8 2005
RODANTESA

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELLS

Operator EOG RESOURCES, INC.					Lease or Unit Name ROCKING HORSE 36 ST.				
Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 11/23/05		Well No. 1		
Completion Date		Total Depth		Plug Back TD 10620		Elevation		Unit Ltr - Sec - TWP - Rge 36 18 27	
Csg. Size 5 1/2	Wt. 17#	d	Set At	Perforations: From: 10211 To: 10233				County EDDY	
Tbg. Size 2 7/8	Wt. 6.5	d 2.441	Set At 10071	Perforations: From: To:				Pool	
Type Well-Single-Bradenhead-G.G. or G.O. Multiple SINGLE					Packer Set At 10071		Formation MORROW		
Producing Thru TBG		Reservoir Temp. °F 176 @ 10211		Mean Annual Temp. °F 60		Baro. Press. -P _a 13.2		Connection	
L 10071	H 10071	Gg 0.619	%CO ₂ 0.616	%N ₂ 0.398	%H ₂ S	Prover N/A	Meter Run 4.026	Taps FLG	
FLOW DATA			TUBING DATA			CASING DATA			Duration of Flow
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.	
SI						2790		PKR	
1	4" TOT. FLOW		235		72	2740		"	
2	"		441		64	2678		"	
3	"		447		62	2621		"	
4	"		452		60	2521		"	
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								798	
2								1,302	
3					TOTAL	FLOW	METER	1,821	
4								2,396	
5									
No.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio				
1					A.P. I. Gravity of Liquid Hydrocarbons				
2		N/A			Specific Gravity Separator Gas				
3					Specific Gravity Flowing Fluid				
4					Critical Pressure				
5					Critical Temperature				
P _c 2803.2 P _{c2} 7857.9					DRY GAS Mcf bbl.				
					DRY Deg.				
					0.619 XXXXXXXX				
					XXXXX N/A				
					671 P.S.I.A. N/A P.S.I.A.				
					362 R. N/A R				
No.	P _i ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = \frac{5.707}{\quad}$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \frac{3.349}{\quad}$				
1		2754.4	7586.7	271.2	AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \frac{7.928}{\quad}$ 79825				
2		2694.5	7260.1	597.8					
3		2640.7	6973.2	884.7					
4		2545.8	6481	1376.9					
5									
Absolute Open Flow 7.928 Mcfd @ 15.025					Angle of Slope (°): 55.5		Slope n: 0.687		
Remarks: NO FLUID PRODUCED									
Approved By Division:			Conducted By: BEACON RESOURCES L.L.L.		Calculated By: BM			Checked By: BM	

COMPANY : EOG RESOURCES, INC.

LEASE : R. HORSE 36 ST. WELL NO. :

1

Pc = 2803.2

Pc2 = 7857.9 *||

TOWN :

SECTION : 36

TOWNSHIP : 19

L : 10071

H :

10071

L/H :

1

G/GMIX : 0.619

Pt2 = 7580.1

Pw = 2754.4 *||

XCO2 : 0.616

XN2 :

0.398

H2S :

DATE :

11-23-05

7242.6

2694.5 *||

d : 2.441

Fr :

0.0107631

GH :

6233.9

RANGE : 27

6939.0

2640.7 *||

6422.2

2545.8 *||

VOL 1 : 798

PSIA 1 : 2753.2

RESV.TEMP 176.0

Pc2-Pw2= 271.2

Pw2 = 7586.7 *||

VOL 2 : 1302

PSIA 2 : 2691.2

597.8

7260.1 *||

VOL 3 : 1821

PSIA 3 : 2634.2

SHUT-IN PRE = 2803.2

884.7

6973.2 *||

VOL 4 : 2396

PSIA 4 : 2534.2

1376.9

6481.0 *||

PCR : 671

TCR : 362

n = 0.687

Pc2/(Pc2-Pw2) = 28.974

LINE

RATE 1

RATE 2

RATE 3

RATE 4

1ST

2ND

1ST

2ND

1ST

2ND

1ST

2ND

1	QM	0.798	0.798	1.302	1.302	1.821	1.821	2.396	2.396
2	TV	534	534	534	534	534	534	534	534
3	Ts	636.0	636.0	636.0	636.0	636.0	636.0	636.0	636.0
4	T	585.0	585.0	585.0	585.0	585.0	585.0	585.0	585.0
	PR (est)	4.10		4.01		3.93		3.78	
5	Z(est)	0.814	0.827	0.813	0.824	0.812	0.822	0.811	0.818
6	TZ	476.5	483.7	475.7	482.1	475.1	480.8	474.3	478.7
7	GB/TZ	13.084	12.887	13.105	12.930	13.122	12.966	13.144	13.023
8	eS	1.633	1.621	1.635	1.624	1.636	1.626	1.637	1.630
9	1-e-S	0.388	0.383	0.388	0.384	0.389	0.385	0.389	0.386
10	Pt	2753.2	2753.2	2691.2	2691.2	2634.2	2634.2	2534.2	2534.2
11	Pt2 /1000	7580.1	7580.1	7242.6	7242.6	6939.0	6939.0	6422.2	6422.2
12	Fr	0.0107631	0.0107631	0.0107631	0.0107631	0.0107631	0.0107631	0.0107631	0.0107631
13	Fc=FrTZ	5.128	5.206	5.120	5.189	5.113	5.175	5.105	5.152
14	FcQa	4.09	4.15	6.67	6.76	9.31	9.42	12.23	12.34
15	L/H(FcQa)	16.7	17.3	44.4	45.7	86.7	88.8	149.6	152.4
16	Fw	6.4940794	6.6153873	17.252937	17.540028	33.696092	34.194176	58.213926	58.879859
17	Pw2	7586.6	7586.7	7259.8	7260.1	6972.7	6973.2	6480.4	6481.0
18	Ps2	12391.6	12300.9	11867.4	11790.0	11405.2	11339.4	10608.8	10561.7
19	Ps	3520.2	3507.3	3444.9	3433.7	3377.2	3367.4	3257.1	3249.9
20	P	3136.7	3130.2	3068.1	3062.4	3005.7	3000.8	2895.7	2892.0
21	Fr	4.67	4.67	4.57	4.56	4.48	4.47	4.32	4.31
22	Tr	1.62	1.62	1.62	1.62	1.62	1.62	1.62	1.62
23	Z	0.827	0.827	0.824	0.824	0.822	0.822	0.818	0.818

FORM C122-D

EOG RESOURCES, INC.
ROCKING HORSE 36 ST. # 1

