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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

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator EOG RESOURCES INC.				Lease or Unit Name STRAW HAT "6" ST.			
Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 8/18/04	Well No. 1
Completion Date 7/28/04		Total Depth		Plug Back TD 14165		Elevation	Unit Ltr - Sec - TWP - Rge 6 21 33
Csg. Size 5 1/2	Wt. 17#	d	Set At	Perforations: From: 13894 To: 13974		County LEA	
Tbg. Size 2 7/8	Wt. 6.5	d 2.441	Set At 13802	Perforations: From: To:		Pool	
Type Well-Single-Bradenhead-G.G. or G.O. Multiple SINGLE				Packer Set At 13802		Formation MORROW	
Producing Thru TBG		Reservoir Temp. °F 190.8 @ 13802	Mean Annual Temp. °F 60	Baro. Press. -P _a 13.2		Connection VENTED	
L 13802	H 13802	Gg 0.679	%CO ₂ 2.318	%N ₂ 1.122	%H ₂ S N/A	Prover N/A	Meter Run 3.067
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.	Temp. °F			
SI						3824		PKR		48 Hrs		
1	3	X 1.250	360		64	3760		"		1 HR		
2	3	X 1.250	355		68	3290		"		1HR		
3	3	X 1.250	360		74	2795		"		1 HR		
4	3	X 1.250	358		72	2325		"		1 HR		
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 _{py}	Rate of Flow Q, Mcfd
1							502
2							1006
3		METERED		BY	TOTAL	FLOW	1027
4							2,021
5							

No.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	DRY GAS	Mcft bbl.
1					A.P. I. Gravity of Liquid Hydrocarbons	DRY	Deg.
2					Specific Gravity Separator Gas	0.679	XXXXXXX
3			N/A		Specific Gravity Flowing Fluid	XXXXXX	
4					Critical Pressure	* 672 P.S.I.A.	P.S.I.A.
5					Critical Temperature	* 376 R.	R

P _c 3837.2 P _{c2} 14724.1				
No.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1		3773.7	14241.1	483
2		3305.5	10926.4	3797.7
3		2814.1	7919.1	6805
4		2350	5522.4	9201.7
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.6$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.919$

79825

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.444$

Absolute Open Flow	2,919	Mcfd @ 15.025	Angle of Slope (°)	51.5	Slope n:	0.7959
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Remarks: **NO FLUID PRODUCED--* = CORROCTED TO 2.318 % CO2 & 1.122 % N2**

Approved By Division: 	Conducted By: BEACON RESOURCES	Calculated By: BM	Checked By: BM
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COMPANY : EOG RESOURCES INC.				LEASE : STRAW HAT "6" ST.				WELL NO. : 1				Pc = 3837.2				Pc2 = 14724.1 *			
UNIT :				SECTION : 6				TOWNSHIP : 21											
L : 13802				H : 13802				L/H : 1				G/GMIX : 0.679				Pt2 = ***** Pw = 3773.7 *			
%CO2 : 2.318				%N2 : 1.122				H2S :				DATE : 8-18-04				***** 3305.5 *			
d : 2.441				Fr : 0.010763				GH : 9371.6				RANGE : 33				7886.0 2814.1 *			
=====												5467.2 2350.0 *							
VOL 1 : 502				PSIA 1 : 3773.2				RESV.TEMP 190.9				Pc2-Pw2= 483.0				Pw2 = 14241.1 *			
VOL 2 : 1006				PSIA 2 : 3303.2								3797.7				10926.4 *			
VOL 3 : 1527				PSIA 3 : 2808.2				SHUT-IN PR= 3837.2				6805.0				7919.1 *			
VOL 4 : 2012				PSIA 4 : 2338.2								9201.7				5522.4 *			
				PCR : 672								n = 0.796 ✓							
				TCR : 376															
LINE		RATE 1				RATE 2				RATE 3				RATE 4				Pc2/(Pc2-Pw2) = 30.483	
		1ST		2ND		1ST		2ND		1ST		2ND		1ST		2ND		3.877	
																		2.164	
																		1.600 ✓	
1 QM		0.502		0.502		1.006		1.006		1.527		1.527		2.012		2.012			
2 TW		534		534		534		534		534		534		534		534		[Pc2/Pc2-Pw2]n = 15.176	
3 Ts		650.9		650.9		650.9		650.9		650.9		650.9		650.9		650.9		2.940	
4 T		592.5		592.5		592.5		592.5		592.5		592.5		592.5		592.5		1.848	
PR (est)		5.61				4.92				4.18				3.48				1.444 ✓	
5 Z(est)		0.846		0.905		0.819		0.864		0.799		0.826		0.792		0.801			
6 TZ		501.4		536.3		485.0		511.7		473.1		489.5		469.1		474.4		AOF= Q 7.618	
7 GH/TZ		18.690		17.475		19.323		18.313		19.808		19.146		19.977		19.756		2.958	
8 eS		2.016		1.926		2.064		1.987		2.102		2.050		2.115		2.098		2.822	
9 l-e-S		0.504		0.481		0.515		0.497		0.524		0.512		0.527		0.523		2.919 ✓	
10 Pt		3773.2		3773.2		3303.2		3303.2		2808.2		2808.2		2338.2		2338.2			
11 Pt2 /1000		14237.0		14237.0		10911.1		10911.1		7886.0		7886.0		5467.2		5467.2			
12 Fr		0.010763		0.010763		0.010763		0.010763		0.010763		0.010763		0.010763		0.010763			
13 Fc=FrTZ		5.397		5.772		5.220		5.508		5.092		5.268		5.049		5.106			
14 FcQm		2.71		2.90		5.25		5.54		7.78		8.04		10.16		10.27			
15 L/H(FcQm)		7.3		8.4		27.6		30.7		60.5		64.7		103.2		105.5			
16 Fw		3.698170		4.036117		14.21595		15.25244		31.69609		33.15192		54.41242		55.221510			
17 Pw2		14240.7		14241.1		10925.3		10926.4		7917.7		7919.1		5521.6		5522.4			
18 Ps2		28702.5		27424.7		22548.9		21713.3		16641.6		16236.5		11679.0		11584.3			
19 Ps		5357.5		5236.9		4748.6		4659.8		4079.4		4029.5		3417.5		3403.6			
20 P		4565.3		4505.0		4025.9		3981.5		3443.8		3418.8		2877.8		2870.9			
21 Pr		6.79		6.70		5.99		5.92		5.12		5.09		4.28		4.27			
22 Tr		1.58		1.58		1.58		1.58		1.58		1.58		1.58		1.58			
23 Z		0.905		0.900		0.864		0.861		0.826		0.825		0.801		0.800		FORM C122-D	
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EOG RESOURCES INC.
STRAW HAT "6" ST. # 1

