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See Rule 401 & Rule 1122

State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
2040 South Pacheco
Santa Fe, NM 87505

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Form C-122
Revised October, 1999

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator EOG RESOURCES					Lease or Unit Name NILE 22 ST. COM.				
Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 3/12/05		Well No. 1-H		
Completion Date		Total Depth		Plug Back TD 8034		Elevation		Unit Ltr - Sec - TWP - Rge 22 17 24	
Csg. Size 5 1/2	Wt. 17#	d	Set At 7882	Perforations: From: 5250 To: 7882		County EDDY			
Tbg. Size 2 7/8	Wt. 6.5	d 2.441	Set At 4465	Perforations: From: To:		Pool			
Type Well-Single-Bradenhead-G.G. or G.O. Multiple SINGLE					Packer Set At 4449		Formation WOLFCAMP DOLAMITE		
Producing Thru TBG		Reservoir Temp. °F 126.5 @ 5250		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2		Connection SALES	
L 2632	H 5250	Gg 0.664	%CO ₂ 2.593	%N ₂ 0.863	%H ₂ S X	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.	Temp. °F	
SI						1120		PKR.		48 HR
1	4	X 2.500	253		76	1105		"		1HR
2	4	X 2.500	265		75	1091		"		1HR
3	4	X 2.500	274		74	1078		"		1HR
4	4	X 2.500	320		73	1042		"		1HR
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							475
2							1,018
3			TOTAL		FLOW	METER	1,566
4							3,004
5							

No.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	DRY GAS	Mcf bbl.
1					A.P. I. Gravity of Liquid Hydrocarbons	DRY	Deg.
2					Specific Gravity Separator Gas	0.664	XXXXXXX
3		N/A			Specific Gravity Flowing Fluid	XXXXXX	N/A
4					Critical Pressure	* 678	P.S.I.A.
5					Critical Temperature	* 381	R

P _c 1133.2 P _{c2} 1284.1				
No.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1		1116.5	1246.6	37.6
2		1105.6	1222.3	61.8
3		1094.5	1198	86.1
4		1067.9	1140.5	143.6
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = \frac{8.942}{\quad}$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \frac{8.942}{\quad}$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \frac{26.862}{\quad}$

79825

Absolute Open Flow 26,862		Mcf/d @ 15.025	Angle of Slope Q: 45	Slope n: 1
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Remarks: **NO FLUID PRODUCED--CORRECTED TO 2.593 % CO2**

Approved By Division:	Conducted By: BEACON RESOURCES	Calculated By: BM	Checked By: BM
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COMPANY : EOG RESOURCES LEASE : NILE 22 ST. COM. WELL NO. : 1 Pc = 1133.2 Pc2 = 1284.1 *
 UNIT : SECTION : 22 TOWNSHIP : 17 *
 L : 2632 H : 5250 L/H : 1 G/GMIX : 0.664 Pt2 = 1245.9 Pw = 1116.5 *
 %CO2 : 2.593 %N2 : 0.863 H2S : DATE : 3-12-05 1219.3 1105.6 *
 d : 2.441 Fr : 0.010763 GH : 3486.0 RANGE : 24 1190.7 1094.5 *
 1113.4 1067.9 *

VOL 1 : 475 PSIA 1 : 1116.2 RESV.TEMP 126.5 Pc2-Pw2 = 37.6 Pw2 = 1246.6 *
 VOL 2 : 1018 PSIA 2 : 1104.2 61.8 1222.3 *
 VOL 3 : 1566 PSIA 3 : 1091.2 SHUT-IN PR= 1133.2 86.1 1198.0 *
 VOL 4 : 3004 PSIA 4 : 1055.2 143.6 1140.5 *

PCR : 678
 TCR : 381

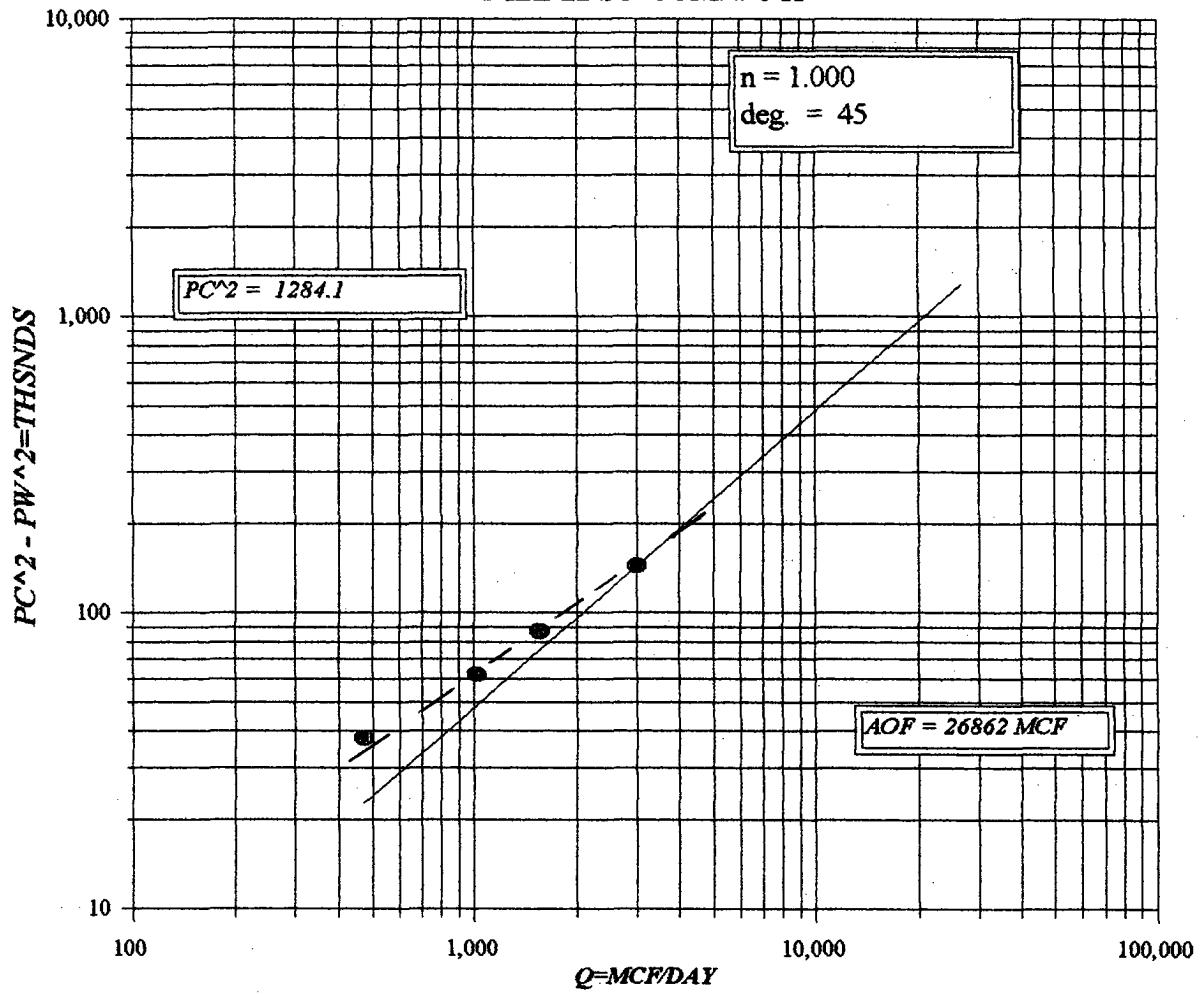
n = 1.000
 Pc2/(Pc2-Pw2) = 34.179
 20.777
 14.911
 8.942

LINE	RATE 1		RATE 2		RATE 3		RATE 4	
	1ST	2ND	1ST	2ND	1ST	2ND	1ST	2ND
1 QM	0.475	0.475	1.018	1.018	1.566	1.566	3.004	3.004
2 TW	534	534	534	534	534	534	534	534
3 Ts	586.5	586.5	586.5	586.5	586.5	586.5	586.5	586.5
4 T	560.3	560.3	560.3	560.3	560.3	560.3	560.3	560.3
PR (est)	1.65		1.63		1.61		1.56	
5 Z(est)	0.814	0.803	0.815	0.805	0.817	0.806	0.822	0.810
6 TZ	455.9	450.1	456.8	450.9	457.7	451.8	460.3	454.1
7 GH/TZ	7.646	7.745	7.632	7.731	7.617	7.716	7.574	7.677
8 eS	1.332	1.337	1.331	1.336	1.331	1.336	1.328	1.334
9 l-e-S	0.249	0.252	0.249	0.252	0.248	0.251	0.247	0.250
10 Pt	1116.2	1116.2	1104.2	1104.2	1091.2	1091.2	1055.2	1055.2
11 Pt2 /1000	1245.9	1245.9	1219.3	1219.3	1190.7	1190.7	1113.4	1113.4
12 Fr	0.010763	0.010763	0.010763	0.010763	0.010763	0.010763	0.010763	0.010763
13 Fc=FrTZ	4.907	4.844	4.916	4.853	4.926	4.863	4.954	4.887
14 FcQm	2.33	2.30	5.00	4.94	7.71	7.61	14.88	14.68
15 L/H(FcQm)	2.7	2.7	12.6	12.2	29.8	29.1	111.0	108.1
16 Fw	0.679018	0.669120	3.125332	3.079771	7.412592	7.304004	27.44984	27.031775
17 Pw2	1246.6	1246.6	1222.4	1222.3	1198.1	1198.0	1140.9	1140.5
18 Ps2	1660.5	1666.7	1627.4	1633.4	1594.2	1600.0	1515.6	1521.0
19 Ps	1288.6	1291.0	1275.7	1278.1	1262.6	1264.9	1231.1	1233.3
20 P	1202.4	1203.6	1190.0	1191.1	1176.9	1178.1	1143.2	1144.2
21 Pr	1.77	1.78	1.76	1.76	1.74	1.74	1.69	1.69
22 Tr	1.47	1.47	1.47	1.47	1.47	1.47	1.47	1.47
23 Z	0.803	0.803	0.805	0.805	0.806	0.806	0.810	0.810

[Pc2/Pc2-Pw2]n = 34.179
 20.777
 14.911
 8.942
 AOF= Q 16.235
 21.151
 23.351
 26.862

FORM C122-D

E0G RESOURCES
NILE 22 ST. COM. # 1-H



EOG RESOURCES
NILE 22 ST. COM. # 1-H

