Submit in duplicate to appropriate district office
See Rule 401 & Rule 1122

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-122
Revised 4-1-91

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator: Louis Dreyfus						Lease or Unit Name: Toro 33 St. ~~Com~~			
Type Test: [X] Initial [ ] Annual [ ] Special						Test Date: 2/25/99		Well No.: 1	
Completion Date: 2-23-99		Total Depth: 13322		Plug Back TD		Elevation		Unit Ltr. - Sec. - TWP - Rge.: 33 19-S 33-E	
Csg. Size: 5 1/2	Wt.: 17#	d: 4.892	Set At: 13322	Perforations: From: 12864	To: 12878			County: Lea	
Tbg. Size: 2 3/8	Wt.: 4.7	d: 1.995	Set At: 12769	Perforations: From:	To:			Pool:	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple: Single				Packer Set At: 12769'				Formation: Morrow	
Producing Thru: tbg	Reservoir Temp. °F: 201.7	Mean Annual Temp. °F: 60°		Baro. Press - P_a: 13.2				Connection: Air	
L: 12769	H: 12769	Gg: .696	% CO_2: .413	% N_2: 1.390	% H_2S:	Prover: 0		Meter Run: 4.026	Taps: flg

FLOW DATA					TUBING DATA		CASING DATA		
NO.	Prover Line Size X Orifice 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	Duration of Flow
SI					3896		Pkr		
1.	4.026 X 1.500	400	2"	94°	3400				60 Min
2.	4.026 X 1.500	420	8"	78°	2665				60 Min
3.	4.026 X 1.500	420	15"	62°	2030				60 Min
4.	4.026 X 1.500	420	26"	64°	1470				60 Min
5.									

RATE OF FLOW CALCULATIONS

NO.	COEFFICIENT (24 HOUR)	$\sqrt{h_w P_m}$	Pressure P_m	Flow Temp. Factor F_t	Gravity Factor F_g	Super Compress. Factor, F_{pv}	Rate of Flow Q, Mcfd
1.	10.84	28.7	413.2	.9688	1.199	1.051	379
2.	10.84	58.8	433.2	.9831	1.199	1.055	792
3.	10.84	80.6	433.2	.9981	1.199	1.062	1110
4.	10.84	106.1	433.2	.9962	1.199	1.060	1456
5.							

NO.	P_r	Temp. °R	T_r	Z
1.	.82	554	1.44	.906
2.	.80	538	1.40	.899
3.	.77	522	1.35	.887
4.	.77	524	1.36	.890
5.				

Gas Liquid Hydrocarbon Ratio: 3.539 Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons: 45.6 Deg.
Specific Gravity Separator Gas: .696 XXXXXXXXX
Specific Gravity Flowing Fluid: N/A XXXXX
Critical Pressure: 672 P.S.I.A. P.S.I.A.
Critical Temperature: 384 R R

P_c 3909.2 P_c^2 15281.8

NO.	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1.		3414.1	11656.0	3625.9
2.		2682.7	7197.0	8084.8
3.		2054.4	4220.4	11061.4
4.		1510.0	2280.1	13001.7
5.				

1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.175$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.175$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.711$

Absolute Open Flow: 1.711 Mcfd @ 15.025 | Angle of Slope θ: 45° | Slope, n: 1.000

Remarks: *Well made 44 bbls of 45.6 api gravity condensate during test

Approved By Division	Conducted By:	Calculated By:	Checked By:
	Pro Well Testing	M.B.	B.M.

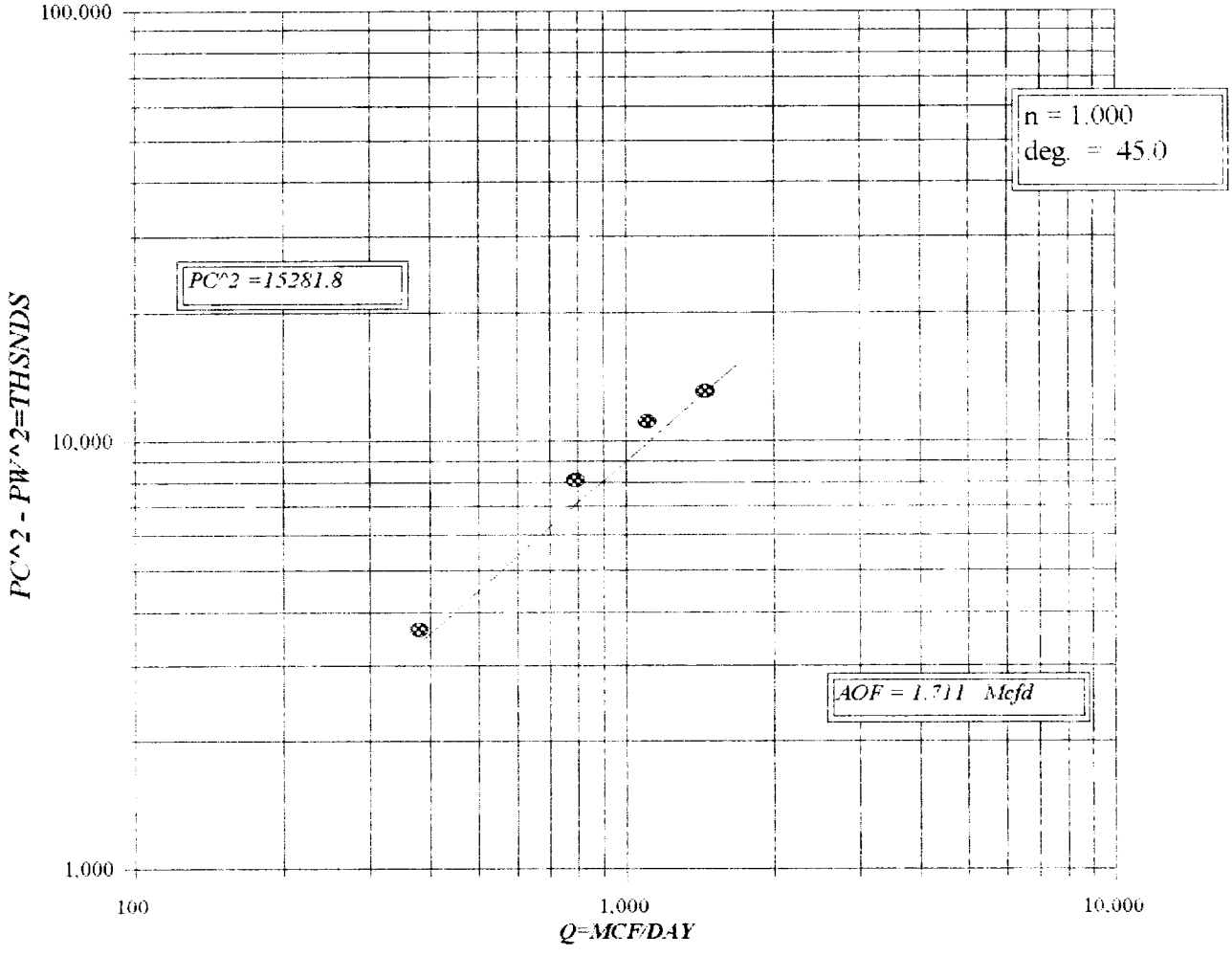
JC CW

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

NO. OF MCLS PRODUCED	=	94.0
API GRAVITY @ 60 DEG.	=	45.6
SPECIFIC GRAVITY OF GAS	=	0.7050
TOTAL GAS PRODUCED	=	1bs
G.O.R.	=	5,529
G.MIX	=	1,454

LOUIS DREYFUS

TORO "33" ST. COM. .#1



0 COMPANY :LOUIS DREYFUS LEASE :TORO 33 ST COM WELL NO. : 1

UNIT : SECTION : 33 TOWNSHIP : 19

L : 12769 H : 12769 L/H : 1 G/GMIX : 0.696

%CO2 : 0.413 %N2 : 1.39 H2S : DATE :2/25/99

d : 1.995 Fr :0.018231 GH : 8887.2 RANGE : 33

VOL 1 : 379 PSIA 1 : 3413.2 RESV.TEMP 201.7

VOL 2 : 792 PSIA 2 : 2678.2

VOL 3 : 1110 PSIA 3 : 2043.2 SHUT-IN PR= 3909.2

VOL 4 : 1456 PSIA 4 : 1483.2

PCR : 672

TCR : 384

Pc = 3909.2 Pc2 = 15281.8

Pc2 = ******* Pw = 3414.1

7172.8 2682.7

4174.7 2054.4

2199.9 1510.2

Pc2-Pw2= 3625.9 Pw2 = 11656.0

8084.8 7197.0

******* 4220.4

******* 2280.1

n = 1.000

Pc2/(Pc2-Pw2) = 4.215

1.890

1.382

1.175

[Pc2/Pc2-Pw2]n = 4.215

1.890

1.382

1.175

AOF= Q 1.597

1.497

1.634

1.711

FORM C122-D

LINE	RATE 1		RATE 2		RATE 3		RATE 4	
	1ST	2ND	1ST	2ND	1ST	2ND	1ST	2ND
1 GM	0.379	0.379	0.792	0.792	1.110	1.110	1.456	1.456
2 MW	534	534	534	534	534	534	534	534
3 Ts	661.7	661.7	661.7	661.7	661.7	661.7	661.7	661.7
4 T	597.8	597.8	597.8	597.8	597.8	597.8	597.8	597.8
PR (est)	5.08		3.99		3.04		2.21	
5 Z(est)	0.817	0.864	0.787	0.808	0.787	0.784	0.814	0.795
6 TZ	488.6	516.6	470.3	483.3	470.3	468.4	486.5	475.2
7 GH/TZ	18.189	17.203	18.896	18.388	18.899	18.972	18.268	18.702
8 eS	1.978	1.906	2.031	1.993	2.031	2.037	1.984	2.016
9 1-e-S	0.494	0.475	0.508	0.498	0.508	0.509	0.496	0.504
10 Pt	3413.2	3413.2	2678.2	2678.2	2043.2	2043.2	1483.2	1483.2
11 Pt2 /1000	11649.9	11649.9	7172.8	7172.8	4174.7	4174.7	2199.9	2199.9
12 Fr	0.018231	0.018231	0.018231	0.018231	0.018231	0.018231	0.018231	0.018231
13 Fc=Fr/Z	8.908	8.419	8.574	8.812	8.572	8.540	8.869	8.663
14 FcQm	3.38	3.57	6.79	6.98	9.52	9.48	12.91	12.61
15 L/4(FcQm)	11.4	12.7	46.1	48.7	90.6	89.9	166.8	159.1
16 FW	5.635608	6.057592	23.41245	24.26335	45.97914	45.74627	82.70158	80.204184
17 Pw2	11655.6	11656.0	7196.2	7197.0	4220.6	4220.4	2282.6	2280.1
18 Ps2	23054.6	22218.3	14616.5	14342.2	8573.7	8596.7	4528.4	4597.6
19 Ps	4801.5	4713.6	3823.2	3787.1	2928.1	2932.0	2128.0	2144.2
20 P	4107.4	4063.4	3250.7	3232.7	2485.6	2487.6	1805.6	1813.7
21 Pr	6.11	6.05	4.81	4.81	3.70	3.70	2.69	2.70
22 Tr	1.56	1.56	1.56	1.56	1.56	1.56	1.56	1.56
23 Z	0.864	0.861	0.808	0.808	0.784	0.784	0.795	0.794