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

OCT 1994

OIL CONSERVATION DIVISION

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

30-025-04827

API No. 30-025-04827

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator: EXXON					Lease or Unit Name: Eumont Gas Comm. No. 2		
Type Test: [X] Initial [ ] Annual [ ] Special					Test Date: 10-19-94	Well No.: #5	
Completion Date: 10-15-94	Total Depth: 3975'		Plug Back TD: 3936		Elevation	Unit Ltr. - Sec. - TWP - Rge.: M 29 21S 36E	
Csg. Size: 5½	Wt.: 14	d: 5.012	Set At: 3975	Perforations: From: 3255 To: 3745		County: LEA	
Tbg. Size: 2-3/8	Wt.: 4.7	d: 1.995	Set At: 3180	Perforations: From: To:		Pool: Eumont	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple: single			Packer Set At: 3180			Formation: YATES/SEVEN RIVERS	
Producing Thru: TBG.	Reservoir Temp. °F: 92°	Mean Annual Temp. °F: 60	Baro. Press - P_a: 13.2			Connection: PIPELINE	
L: 3255	H: 3255	Gg: .705	% CO_2: 3.80	% N_2: 1.77	% H_2S: 1.2	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	Tubing Press. p.s.i.g.	Tubing Temp. °F	Casing Press. p.s.i.g.	Casing Temp. °F	Duration of Flow
SI							299				
1.	4.026	X	1.750	46.09	1	58°	288	52°	PKR.		45 min
2.	4.026	X	1.750	47.64	4	64°	278	64°			45 min
3.	4.026	X	1.750	50.80	14.4	74°	256	80°			45 min
4.	4.026	X	1.750	57.36	34.81	78°	215	84°			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 Fg.	Super Compress. Factor, F pv.	Rate of Flow Q, Mcfd
1.	14.93	7.7	59.29	1.002	1.191	1.017	140
2.	14.93	15.6	60.84	.9962	1.191	1.017	281
3.	14.93	30.36	64.00	.9868	1.191	1.016	541
4.	14.93	49.56	70.56	.9831	1.191	1.015	879
5.							

NO.	P_r	Temp. °R	T_r	Z
1.	.09	518	1.34	.987
2.	.09	524	1.36	.987
3.	.094	534	1.38	.987
4.	.10	538	1.39	.987
5.				

Gas Liquid Hydrocarbon Ratio: DRY Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons: DRY Deg.
Specific Gravity Separator Gas: .705 XXXXXXXXX
Specific Gravity Flowing Fluid: DRY XXXXX
Critical Pressure: 679 P.S.I.A. P.S.I.A.
Critical Temperature: 386 R R

P_c 312.2 P_c^2 97.2

NO.	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1.		301.6	91.0	6.5
2.		292.9	85.8	11.7
3.		276.1	76.2	21.2
4.		249.2	62.1	35.4
5.				

1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.757$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2.757$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2,423$

Absolute Open Flow: 2,423 Mcfd @ 15.025 | Angle of Slope θ: 45° | Slope, n: 1.000

Remarks:

Approved By Division	Conducted By:	Calculated By:	Checked By:
[illegible] SIGNED BY GARY WINK FIELD REP. II NOV 04 1994	PRO WELL TESTER	KS	BM

Laboratory Services, Inc.
1331 Tasker Drive
Hobbs, New Mexico 88240

Telephone: (505) 397-3713

OCT 2 1994

FOR: Pro Well Testing & Wireline
Attention: Mr. Ray Gallagher
P. O. Box 791
Hobbs, New Mexico 88241

SAMPLE IDENTIFICATION:
COMPANY: Exxon Company USA
LEASE: Eumont Gas Comm. No. 2 #5
PLANT:
API NO. 30-025-04827

SAMPLE DATA:
DATE SAMPLED: 10-19-94 10:30 AM
ANALYSIS DATE: 10-19-94
PRESSURE - PSIG 71.00
SAMPLE TEMP. °F 82.00
ATMOS. TEMP. °F

GAS (XX) LIQUID ( )
SAMPLED BY: Ray Gallagher
ANALYSIS BY: Vickie Walker

REMARKS:

COMPONENT ANALYSIS

COMPONENT		MOL PERCENT	GPM
Hydrogen Sulfide	(H2S)		
Nitrogen	(N2)	1.77	
Carbon Dioxide	(CO2)	3.80	
Methane	(C1)	80.98	
Ethane	(C2)	7.84	2.092
Propane	(C3)	3.57	0.981
I-Butane	(IC4)	0.43	0.140
N-Butane	(NC4)	0.87	0.275
I-Pentane	(IC5)	0.22	0.079
N-Pentane	(NC5)	0.19	0.069
Hexane Plus	(C6)	0.33	0.134
		100.00	3.770

BTU/CU.FT. -	DRY	1121	MOLECULAR WT.	20.4224
AT 14.650	DRY	1117		
AT 14.650	WET	1098		
AT 14.73	DRY	1123		
AT 14.73	WET	1104		

SPECIFIC GRAVITY -
CALCULATED 0.705
MEASURED

API . 30-025-04827

COMPANY :EXXON U.S.A. LEASE :Eumont Gas Comm. No. 2 WELL NO. :#5

UNIT : SECTION : 29 TOWNSHIP : 21

L :	3255	H :	3255	L/H :	1	G/GMIX :	0.705
%CO2 :	3.8	%N2 :	1.77	H2S :		DATE :	10/19/94
d :	2.004	Fr :	0.018018	GH :	2294.8	RANGE :	36

VOL 1 :	140	PSIA 1 :	301.2	RESV.TEMP	92.0
VOL 2 :	281	PSIA 2 :	291.2		
VOL 3 :	541	PSIA 3 :	269.2	SHUT-IN PR=	312.2
VOL 4 :	879	PSIA 4 :	228.2		

PCR : 679
TCR : 386

LINE	RATE 1		RATE 2		RATE 3		RATE 4	
	1ST	2ND	1ST	2ND	1ST	2ND	1ST	2ND
1 QM	0.140	0.140	0.281	0.281	0.541	0.541	0.879	0.879
2 TW	534	534	534	534	534	534	534	534
3 Ts	552.0	552.0	552.0	552.0	552.0	552.0	552.0	552.0
4 T	543.0	543.0	543.0	543.0	543.0	543.0	543.0	543.0
PR (est)	0.44		0.43		0.40		0.34	
5 Z(est)	0.922	0.920	0.924	0.922	0.928	0.925	0.935	0.931
6 TZ	500.8	499.5	501.8	500.4	503.9	502.4	507.8	505.8
7 GH/TZ	4.582	4.594	4.573	4.586	4.554	4.568	4.519	4.537
8 eS	1.187	1.188	1.187	1.188	1.186	1.187	1.185	1.185
9 1-e-S	0.158	0.158	0.158	0.158	0.157	0.157	0.156	0.156
10 Pt	301.2	301.2	291.2	291.2	269.2	269.2	228.2	228.2
11 Pt2 /1000	90.7	90.7	84.8	84.8	72.5	72.5	52.1	52.1
12 Fr	0.018018	0.018018	0.018018	0.018018	0.018018	0.018018	0.018018	0.0180180
13 Fc=FrTZ	9.024	9.000	9.041	9.017	9.079	9.052	9.150	9.113
14 FcQm	1.26	1.26	2.54	2.53	4.91	4.90	8.04	8.01
15 L/H(FcQm)	1.6	1.6	6.5	6.4	24.1	24.0	64.7	64.2
16 Fw	0.251961	0.251240	1.017171	1.014214	3.787539	3.775174	10.08340	10.038786
17 Pw2	91.0	91.0	85.8	85.8	76.3	76.2	62.2	62.1
18 Ps2	108.0	108.1	101.9	101.9	90.5	90.5	73.6	73.6
19 Ps	328.7	328.8	319.2	319.2	300.8	300.8	271.4	271.4
20 P	314.9	315.0	305.2	305.2	285.0	285.0	249.8	249.8
21 Pr	0.46	0.46	0.45	0.45	0.42	0.42	0.37	0.37
22 Tr	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
23 Z	0.920	0.920	0.922	0.922	0.925	0.925	0.931	0.931

Pc =	312.2	Pc2 = 97.5
Pt2 =	90.7	Pw = 301.6
	84.8	292.9
	72.5	276.1
	52.1	249.2
Pc2-Pw2=	6.5	Pw2 = 91.0
	11.7	85.8
	21.2	76.2
	35.4	62.1
n =	1.000	
Pc2/(Pc2-Pw2) =	15.004	
	8.361	
	4.592	
	2.757	
[Pc2/Pc2-Pw2]n =	15.004	
	8.361	
	4.592	
	2.757	
AOF= Q	2.101	
	2.350	
	2.484	
	2.423	

FORM C122-D

OCT 24 1994

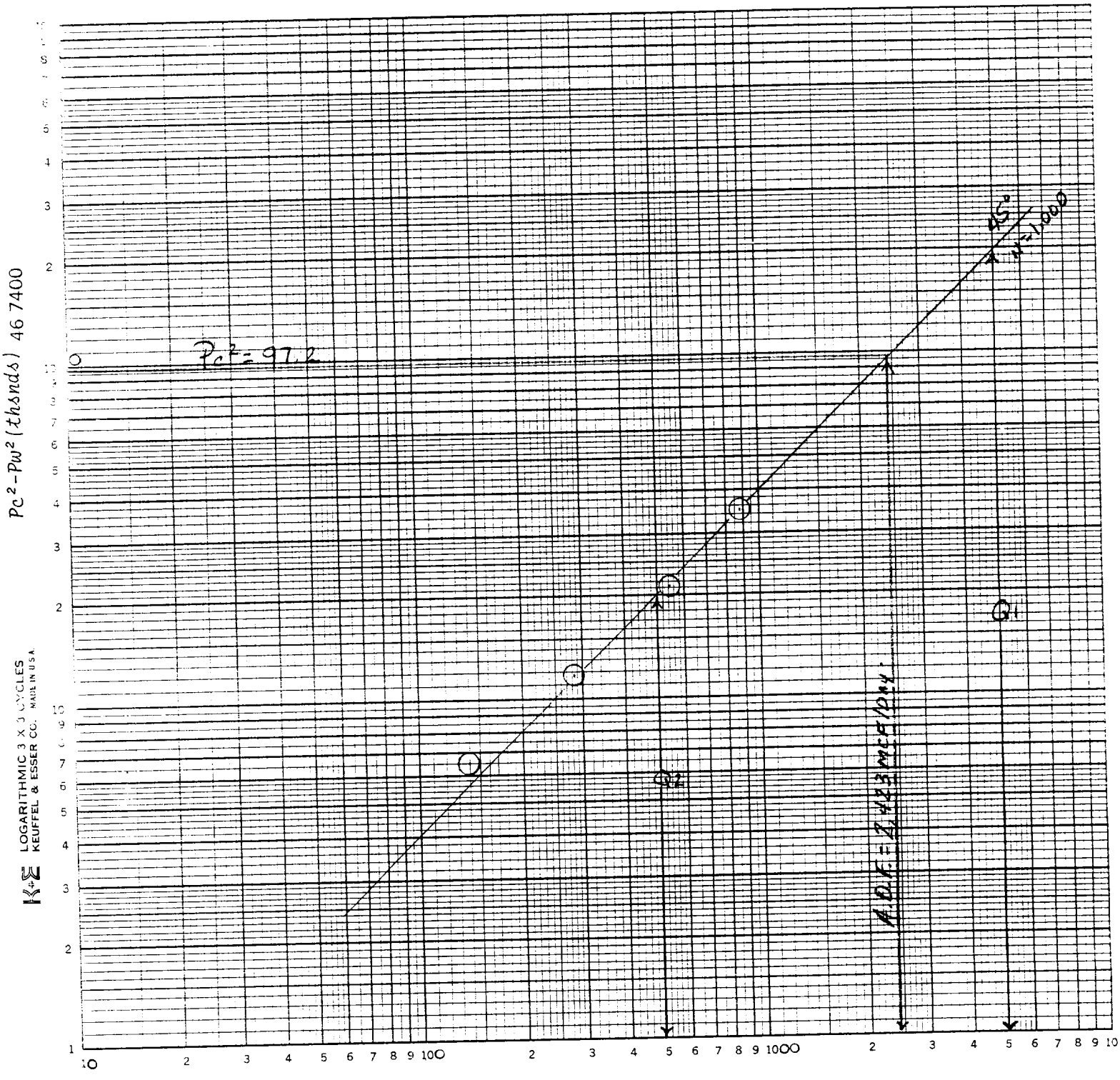
OCT 2 - 1994

Equivalent Diameter Program
Author: Bob Murray
Date: December 26, 1990

API NO. 30-025-04827

L1 =	3180 ft.	L5 =	0 ft.	Lt =	3255 ft.
D1 =	1.995 in.	D5 =	1 in.	C =	0.10797
L2 =	75 ft.	L6 =	0 ft.		
D2 =	5.012 in.	D6 =	1 in.		
				Deff =	2.004 in.
L3 =	0 ft.	L7 =	0 ft.	Fr =	0.01758
D3 =	1 in.	D7 =	1 in.		
L4 =	0 ft.	L8 =	0 ft.		
D4 =	1 in.	D8 =	1 in.		

EXXON COMPANY USA
Eumont Gas Comm. No. 2 #5
29-21S-36E
Lea County, New Mexico
10-19-94
API NO. 30-025-04827



Q1 5000 Log: 3.69897
Q2 500 Log: 2.69897
NSlope = 1.00000