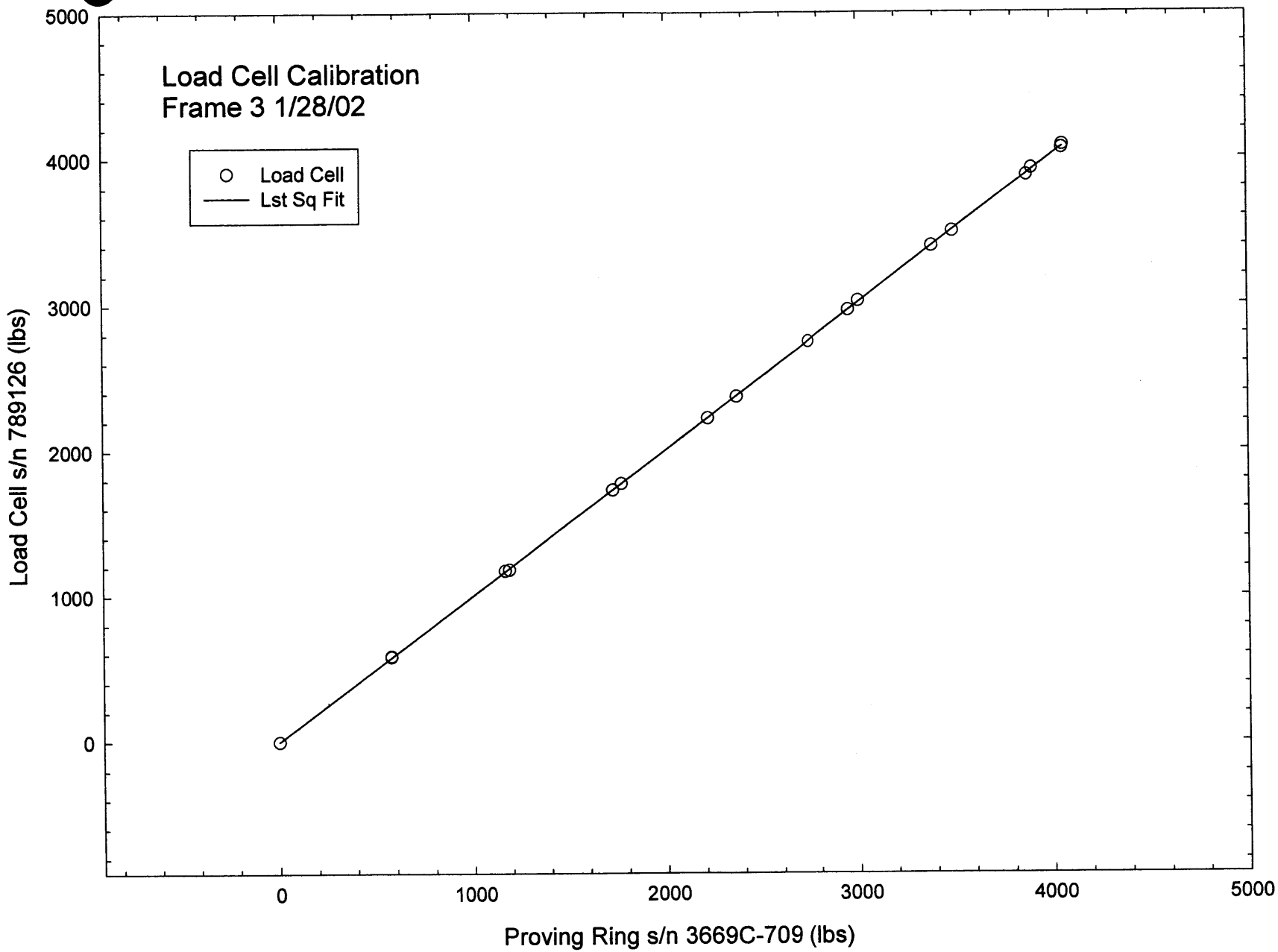
LOAD CELL CALIBRATION

Frame No.: 3 Date: 1/28/02

Load Cell S/N: 789126

Proving Ring S/N: 3668C-709

Load	Ring	Meter	Computer	Table
0	3.7	0	0.2	—
600	52.5 (48.8)	583	582	575.94
1200	102.4 (98.7)	1175	1174	1165.36
1800	149.5 (145.8)	1729	1727	1723.51
2400	191.0 (187.3)	2222	2221	2216.1
3000	235.0 (231.3)	2745	2745	2739.59
3600	257.2 (253.5)	3023	3023	3004.3
4200	289.1 (285.4)	3394	3394	3384.99
4800	332.3 (328.6)	3924	3924	3901.38
5000	345.5 (341.8)	4084	4085	4059.73
4800	345.0 (341.6)	4062	4062	4057.32
4200	329.8 (326.4)	3878	3878	3875.1
3600	297.8 (294.4)	3494	3495	3492.49
3000	252.5 (249.1)	2961	2960	2951.99
2400	203.3 (199.9)	2368	2366	2365.84
1800	153.0 (149.6)	1774	1773	1768.67
1200	103.9 (100.5)	1182	1182	1186.7
600	52.2 (48.8)	588	587	575.94
0	3.4			


Load Cell Calibration
Frame 3 1/28/02
Load Cell
Lst Sq Fit
Load Cell s/n 789126 (lbs)
Proving Ring s/n 3669C-709 (lbs)
5000
4000
3000
2000
1000
0
0
1000
2000
3000
4000
5000

Nonlinear Regression

[Variables]
x = col(1)
y = col(2)
'Automatic Initial Parameter Estimate Functions
F(q)=ape(x,y,1,0,1)
[Parameters]
y0 = F(0)[1] "Auto {{previous: 2.3607}}
a = F(0)[2] "Auto {{previous: 1.00229}}
[Equation]
f=y0+a*x
fit f to y
[Constraints]
[Options]
tolerance=0.000100
stepsize=100
iterations=100

R = 0.99998593 Rsqr = 0.99997187 Adj Rsqr = 0.99997011

Standard Error of Estimate = 7.1793

	Coefficient	Std. Error	t	P
y0	2.3607	3.6006	0.6556	0.5214
a	1.0023	0.0013	754.1582	<0.0001

Analysis of Variance:

	DF	SS	MS	F	P
Regression	1	29314878.4354	29314878.4354	568754.5666	<0.0001
Residual	16	824.6757	51.5422		
Total	17	29315703.1111	1724453.1242		

PRESS = 1077.6490

Durbin-Watson Statistic = 1.7148

Normality Test: Passed (P = 0.1624)

Constant Variance Test: Passed (P = 0.1138)

Power of performed test with alpha = 0.0500: 1.0000

Regression Diagnostics:

Row	Predicted	Residual	Std. Res.	Stud. Res.	Stud. Del. Res.
1	2.3607	-2.3607	-0.3288	-0.3801	-0.3697
2	579.6194	3.3806	0.4709	0.5164	0.5042
3	1170.3890	4.6110	0.6423	0.6797	0.6678
4	1729.8169	-0.8169	-0.1138	-0.1180	-0.1143
5	2223.5348	-1.5348	-0.2138	-0.2201	-0.2134
6	2748.2234	-3.2234	-0.4490	-0.4630	-0.4513
7	3013.5395	9.4605	1.3178	1.3653	1.4064
8	3395.1011	-1.1011	-0.1534	-0.1607	-0.1557
9	3912.6735	11.3265	1.5777	1.6950	1.8119

10	4071.3860	12.6140	1.7570	1.9068	2.1002
11	4068.9705	-6.9705	-0.9709	-1.0535	-1.0574
12	3886.3333	-8.3333	-1.1607	-1.2452	-1.2686
13	3502.8472	-8.8472	-1.2323	-1.2969	-1.3274
14	2961.1097	-0.1097	-0.0153	-0.0158	-0.0153
15	2373.6176	-5.6176	-0.7825	-0.8052	-0.7959
16	1775.0803	-1.0803	-0.1505	-0.1559	-0.1511
17	1191.7778	-9.7778	-1.3619	-1.4399	-1.4943
18	579.6194	8.3806	1.1673	1.2802	1.3083

Influence Diagnostics:

Row	Cook'sDist	Leverage	DFFITS
1	0.0243	0.2515	-0.2143
2	0.0270	0.1685	0.2270
3	0.0277	0.1071	0.2312
4	0.0005	0.0708	-0.0316
5	0.0015	0.0566	-0.0523
6	0.0068	0.0597	-0.1137
7	0.0685	0.0684	0.3812
8	0.0013	0.0894	-0.0488
9	0.2217	0.1337	0.7118
10	0.3232	0.1509	0.8855
11	0.0984	0.1507	-0.4454
12	0.1169	0.1310	-0.4926
13	0.0904	0.0971	-0.4353
14	0.0000	0.0663	-0.0041
15	0.0191	0.0556	-0.1931
16	0.0009	0.0688	-0.0411
17	0.1220	0.1053	-0.5126
18	0.1660	0.1685	0.5890

95% Confidence:

Row	Predicted	Regr. 5%	Regr. 95%	Pop. 5%	Pop. 95%
1	2.3607	-5.2722	9.9936	-14.6655	19.3869
2	579.6194	573.3720	585.8668	563.1676	596.0712
3	1170.3890	1165.4090	1175.3689	1154.3755	1186.4024
4	1729.8169	1725.7661	1733.8677	1714.0676	1745.5662
5	2223.5348	2219.9137	2227.1559	2207.8905	2239.1790
6	2748.2234	2744.5044	2751.9423	2732.5562	2763.8906
7	3013.5395	3009.5582	3017.5207	2997.8079	3029.2710
8	3395.1011	3390.5508	3399.6514	3379.2160	3410.9862
9	3912.6735	3907.1087	3918.2382	3896.4686	3928.8783
10	4071.3860	4065.4732	4077.2989	4055.0584	4087.7137
11	4068.9705	4063.0630	4074.8780	4052.6448	4085.2962
12	3886.3333	3880.8249	3891.8417	3870.1477	3902.5189
13	3502.8472	3498.1046	3507.5898	3486.9060	3518.7885
14	2961.1097	2957.1901	2965.0293	2945.3937	2976.8257
15	2373.6176	2370.0296	2377.2056	2357.9810	2389.2543
16	1775.0803	1771.0870	1779.0736	1759.3457	1790.8149
17	1191.7778	1186.8394	1196.7162	1175.7772	1207.7784
18	579.6194	573.3720	585.8668	563.1676	596.0712