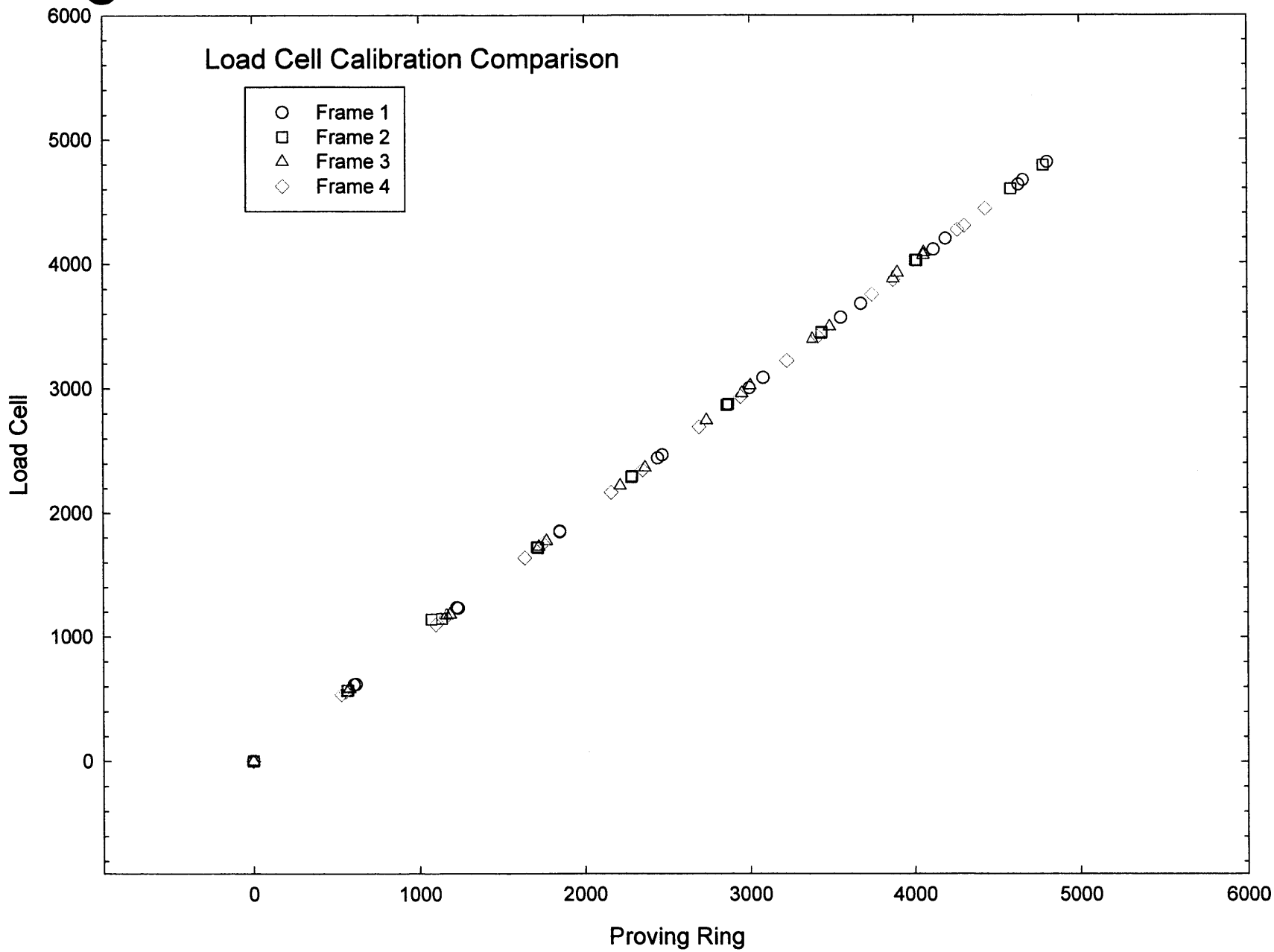
LOAD CELL CALIBRATION

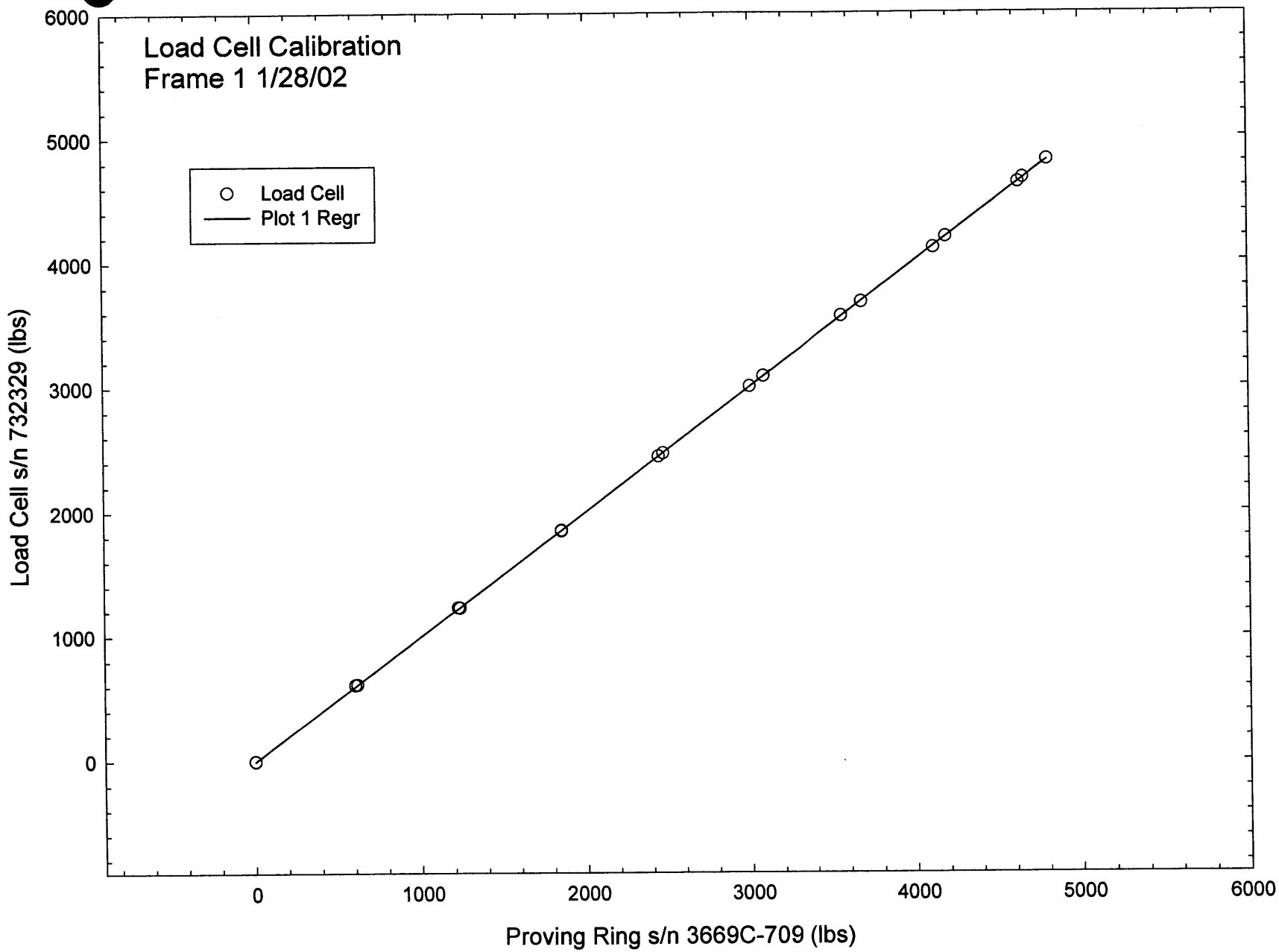
Frame No.: 1 Date: 1/28/02

Load Cell S/N: 732329

Proving Ring S/N: 3668C-709

Load	Ring	Meter	Computer	Table
0	3.2	0.4	0.2	0
600	57.2 (51.0)	614.5	611.7	601.71
1200	107.7 (104.5)	1231	1228	1234
1800	159.7 (156.5)	1847	1844	1850.42
2400	209.5 (206.3)	2442	2442	2441.95
3000	256.2 (253.0)	3003	3004	2998.33
3600	303.2 (300.0)	3565	3565	3559.44
4200	349.9 (346.7)	4107	4108	4118.55
4800	392.6 (389.4)	4630	4631	4630.63
5000	407.1 (403.9)	4810	4812	4804.8
4800	395.4 (391.8)	4665	4667	4659.46
4200	356.4 (352.8)	4194	4195	4191.55
3600	313.8 (310.2)	3675	3675	3681.41
3000	263.6 (260.0)	3084	3085	3081.76
2400	212.2 (208.6)	2468	2468	2469.28
1800	160.1 (156.5)	1852	1850	1850.42
1200	107.4 (103.8)	1235	1231	1225.72
600	55.7 (52.1)	617	612	614.72
0	3.6	2	1	0


Load Cell Calibration Comparison
Frame 1
Frame 2
Frame 3
Frame 4
Load Cell
Proving Ring
6000
5000
4000
3000
2000
1000
0
0
1000
2000
3000
4000
5000
6000


Load Cell Calibration
Frame 1 1/28/02
Load Cell
Plot 1 Regr
Load Cell s/n 732329 (lbs)
Proving Ring s/n 3669C-709 (lbs)
6000
5000
4000
3000
2000
1000
0
0
1000
2000
3000
4000
5000
6000

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: 3.19419}}
a = F(0)[2] "Auto {{previous: 0.999314}}
[Equation]
f=y0+a*x
fit f to y
[Constraints]
[Options]
tolerance=0.000100
stepsize=100
iterations=100

R = 0.99999446 Rsqr = 0.99998893 Adj Rsqr = 0.99998828

Standard Error of Estimate = 5.5184

	Coefficient	Std. Error	t	P
y0	3.1942	2.3992	1.3313	0.2007
a	0.9993	0.0008	1239.0954	<0.0001

Analysis of Variance:

	DF	SS	MS	F	P
Regression	1	46755342.1605	46755342.1605	1535357.4062	<0.0001
Residual	17	517.6911	30.4524		
Total	18	46755859.8516	2597547.7695		

PRESS = 652.0714

Durbin-Watson Statistic = 2.2752

Normality Test: Passed (P = 0.7492)

Constant Variance Test: Passed (P = 0.6052)

Power of performed test with alpha = 0.0500: 1.0000

Regression Diagnostics:

Row	Predicted	Residual	Std. Res.	Stud. Res.	Stud. Del. Res.
1	3.1942	-2.7942	-0.5063	-0.5623	-0.5506
2	604.4914	10.0086	1.8137	1.9465	2.1421
3	1236.3476	-5.3476	-0.9691	-1.0149	-1.0159
4	1852.3447	-5.3447	-0.9685	-1.0002	-1.0003
5	2443.4689	-1.4689	-0.2662	-0.2735	-0.2659
6	2999.4672	3.5328	0.6402	0.6594	0.6480
7	3560.1923	4.8077	0.8712	0.9060	0.9010
8	4118.9187	-11.9187	-2.1598	-2.2852	-2.6635
9	4630.6474	-0.6474	-0.1173	-0.1270	-0.1233

10	4804.6979	5.3021	0.9608	1.0505	1.0539
11	4659.4576	5.5424	1.0044	1.0892	1.0956
12	4191.8686	2.1314	0.3862	0.4098	0.3996
13	3682.0786	-7.0786	-1.2827	-1.3381	-1.3725
14	3082.8400	1.1600	0.2102	0.2167	0.2105
15	2470.7802	-2.7802	-0.5038	-0.5176	-0.5062
16	1852.3447	-0.3447	-0.0625	-0.0645	-0.0626
17	1228.0733	6.9267	1.2552	1.3150	1.3460
18	617.4925	-0.4925	-0.0892	-0.0957	-0.0929
19	3.1942	-1.1942	-0.2164	-0.2403	-0.2335

Influence Diagnostics:

Row	Cook'sDist	Leverage	DFFITS
1	0.0368	0.1890	-0.2658
2	0.2876	0.1318	0.8347
3	0.0499	0.0883	-0.3162
4	0.0333	0.0624	-0.2581
5	0.0021	0.0528	-0.0628
6	0.0132	0.0574	0.1599
7	0.0335	0.0754	0.2573
8	0.3120	0.1067	-0.9207
9	0.0014	0.1471	-0.0512
10	0.1078	0.1634	0.4658
11	0.1045	0.1498	0.4598
12	0.0106	0.1118	0.1418
13	0.0790	0.0811	-0.4077
14	0.0015	0.0592	0.0528
15	0.0075	0.0527	-0.1194
16	0.0001	0.0624	-0.0161
17	0.0843	0.0888	0.4202
18	0.0007	0.1307	-0.0360
19	0.0067	0.1890	-0.1127

95% Confidence:

Row	Predicted	Regr. 5%	Regr. 95%	Pop. 5%	Pop. 95%
1	3.1942	-1.8678	8.2562	-9.5014	15.8897
2	604.4914	600.2645	608.7183	592.1051	616.8777
3	1236.3476	1232.8871	1239.8081	1224.2015	1248.4938
4	1852.3447	1849.4361	1855.2533	1840.3442	1864.3453
5	2443.4689	2440.7940	2446.1439	2431.5228	2455.4150
6	2999.4672	2996.6784	3002.2560	2987.4951	3011.4393
7	3560.1923	3556.9954	3563.3892	3548.1186	3572.2659
8	4118.9187	4115.1151	4122.7223	4106.6704	4131.1670
9	4630.6474	4626.1813	4635.1135	4618.1775	4643.1173
10	4804.6979	4799.9910	4809.4048	4792.1397	4817.2561
11	4659.4576	4654.9521	4663.9631	4646.9735	4671.9417
12	4191.8686	4187.9756	4195.7617	4179.5923	4204.1450
13	3682.0786	3678.7631	3685.3941	3669.9730	3694.1842
14	3082.8400	3080.0071	3085.6729	3070.8575	3094.8224
15	2470.7802	2468.1073	2473.4530	2458.8346	2482.7258
16	1852.3447	1849.4361	1855.2533	1840.3442	1864.3453
17	1228.0733	1224.6038	1231.5428	1215.9246	1240.2220
18	617.4925	613.2827	621.7023	605.1120	629.8729
19	3.1942	-1.8678	8.2562	-9.5014	15.8897