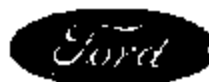


EAO 3-010

Ford 10/22/03

Attachment F

Book 16 of 24



"RECORD COPY"
Schedule No. 7-7-12
Serial # 2021

FINAL TEST REPORT

CONFIDENTIAL

**Global Test Operations
Research and Vehicle Technology**

TO:	J. Fazio	Test Order No.	T-C1834
		Work Task W. O. No.	F17
		Test Date	11/13/00
		Date Reported	2/16/01
		Sheet	1 of 4
SUBJECT:	Crash Test 12068 (90° Front Fixed Center Pole Impact at 30.1 ± 0.4 mph, 48.4 ± 0.6 km/h) - 2000 Taurus (D186) 4-Door Sedan		
REQUESTED BY:	Vehicle Crash Safety Department, Research and Vehicle Technology - J. Fazio		
OBJECT:	To obtain development data relative to air bag system sensors.		
SUMMARY OF TEST RESULTS:	See Section 1.0 for air bag system sensor data.		


R. Liou
Product Test Engineer


Concur: M. Hamilton
Section Supervisor
Operations Engineering Section

VEHICLE DATA:

Make and Model 2000 Toyota (D186) 4-Door Sedan (Production Vehicle)

ID Numbers IFAPP54S7YA100011, 307-W-057

Power Train 2.4L, EFI, Automatic Transaxle

Fuel Tank(s) Usable Capacity: 18.0 gal. (68.1L)
Test Condition: Empty

Front Seat(s) Type: 40/20/40 Split Bench
Cover: Cloth
Tracks/Position: Manual/Mechanical Mid
Seat Backs/Position: Adjustable/Not Measured
Head Restraints/Position: Adjustable/Up

Rear Seat(s) Type: Bench
Cover: Cloth

Restraint System LF & RF: 3-Point Continuous Loop Active Belt
LR & RR: 3-Point Continuous Loop Active Belt

Occupants LF & RF: 50th Percentile Male, Hybrid II, Uninstrumented
LR & RR: Water-Filled Crutolones (Simulating 50th Percentile Male, Hybrid II, Uninstrumented Dummies)

Test Weight Front: 2392 lb (1085 kg)
Rear: 1704 lb (773 kg)
Total: 4096 lb (1858 kg)

Tires Front: P215/60R16 30 psi (207 kPa)
Rear: P215/60R16 30 psi (207 kPa)
Spare: Removed

Significant Content or Accessories: Air Conditioning, Power Steering, Power Brakes, Tilt Steering Wheel

GENERAL TEST COMMENTS:**1. Test Procedure**

The test was performed according to the following Corporate test procedure(s):

Proposed non-regulator crash test procedure.

1.1 Vehicle Alignment

The test vehicle impacted an eight inch diameter steel pole structure, rigidly attached to the barrier face. The vertical steel pole was aligned so that the point of vehicle impact was the test vehicle's longitudinal centerline.

2. Remarks

Crash movies, pre- and post-crash still images of the test vehicle and copies of this report are available through the Operations Engineering Section, Safety Laboratories Department, GTO. The crash still images are stored and archived on CD ROMs. The file names of the still images are listed under crash number and a three digit sequence number which are 12068001 through 12068042.

TEST RESULTS:**1.0 Sensor Development**

Time histories of the dummy dynamic displacements obtained from Film Analysis are included in this report.

Time histories of the air bag/sensor(s) are included in this report.

Time histories of any requested derived data (i.e. integrations, etc.) were given to the requesting activity and are not included in this report.

2.0 Vehicle Crush, Film Analysis and/or Instrumentation Data

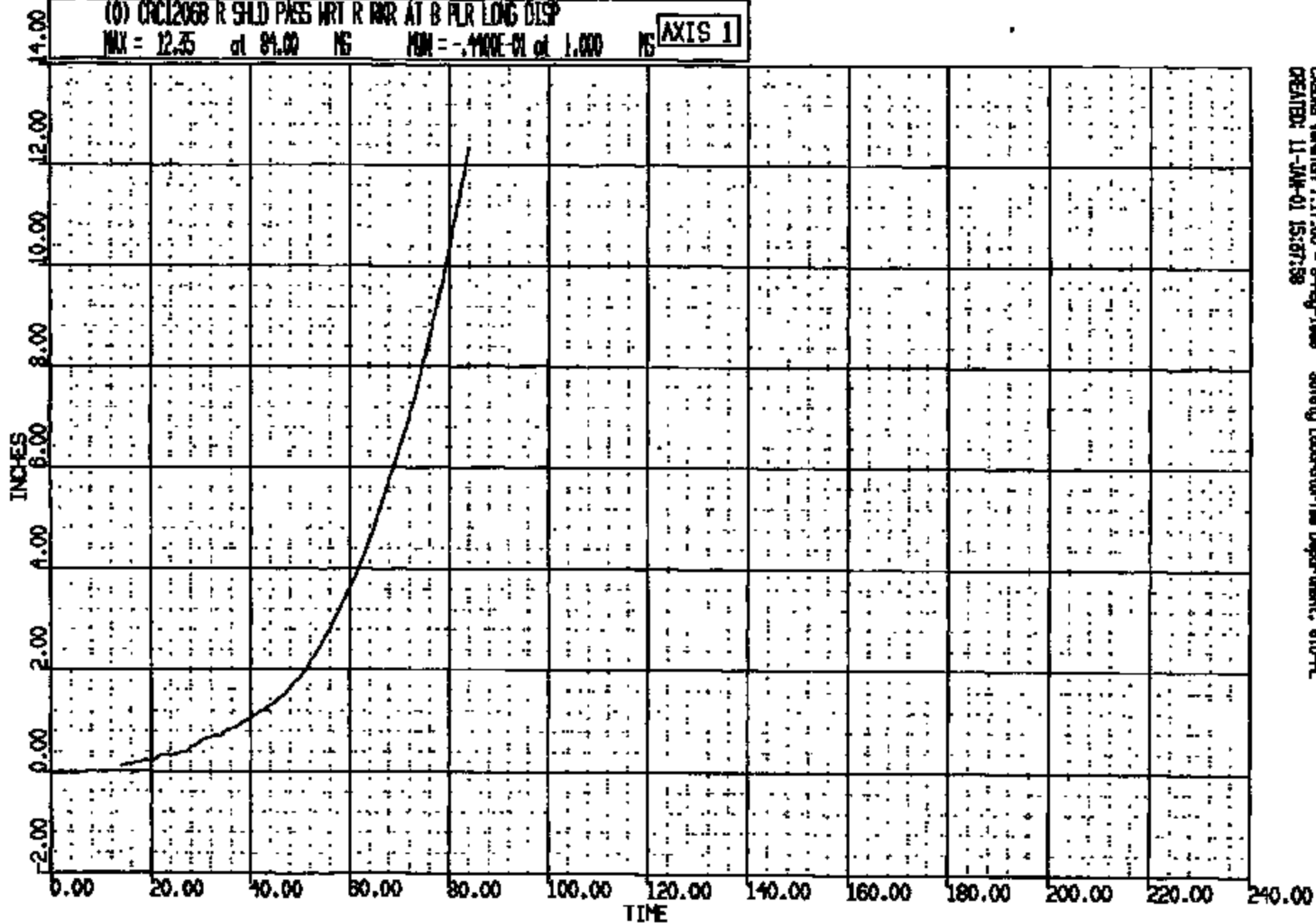
Time histories of the vehicle accelerations and other instrumentation are included in this report.

Time histories of vehicle dynamic displacements obtained from Film Analysis are included in this report.

Time histories of any requested derived data (i.e. integrations, etc.) were given to the requesting activity and are not included in this report.

CRK #: 12068 TO: TC1834 DATE: 001118 15:28:34
2000 D-188

(0) CRK12068 R SHLD PASS WRT R WNR AT B FLR LONG DISP
MAX = 12.35 at 84.00 NS MIN = -.440E-01 at 1.000 NS **AXIS 1**

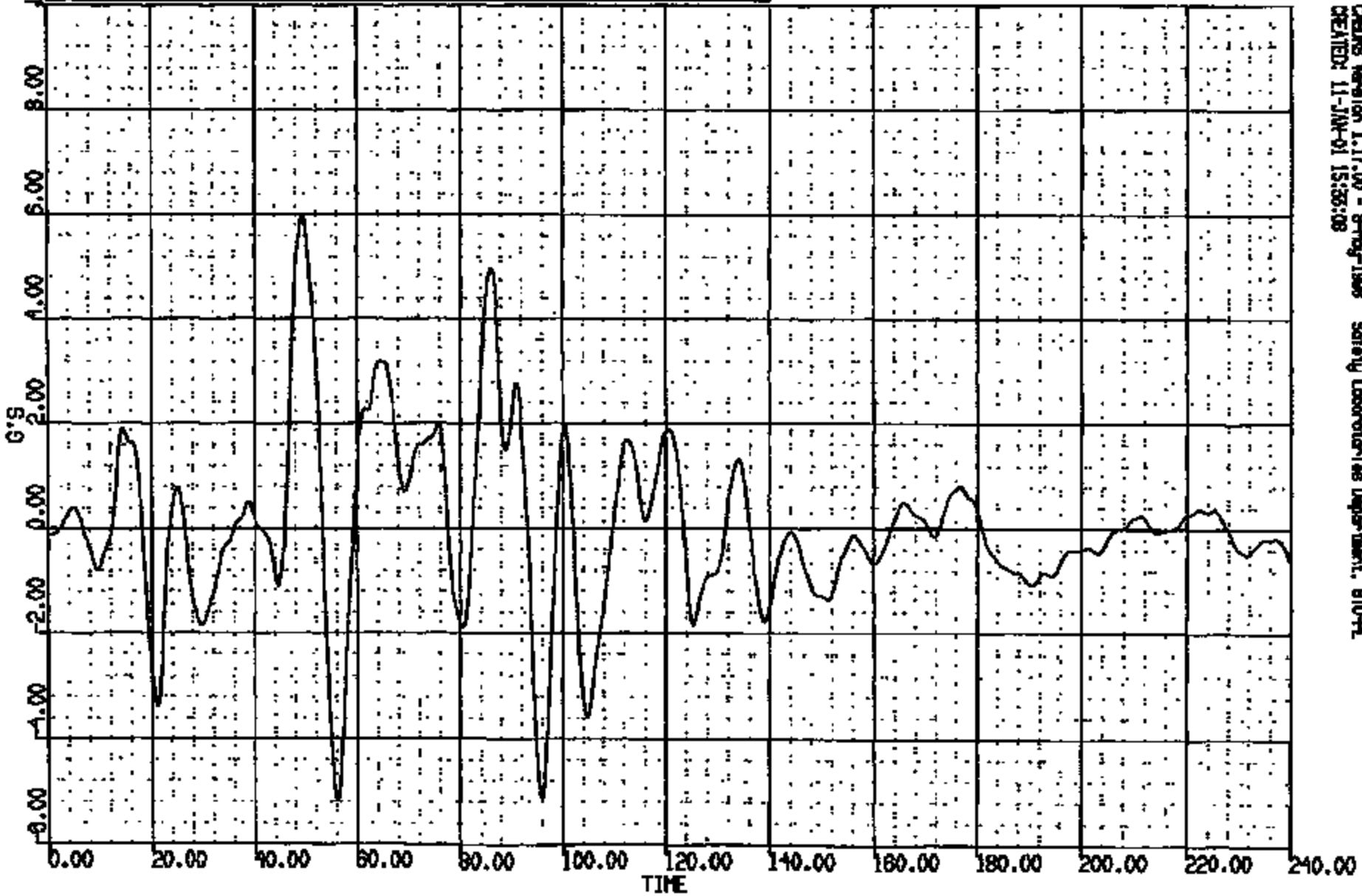


CRSIS Version 1.17.00 - 8-May-1999 Safety Laboratories Department, 610-PL
CREATED: 11-JAN-01 15:27:58

CRTS 0012068

CR: R: 12068 TO: TC1234 DATE: 001115 15:25:34
2000 0-188

(23) CR12068T C/L TNL BND F/SEAT SM #9 LAT 60N
MAX = 6.007 at 48.41 MS MIN = -5.181 at 56.08 MS **AXIS 1**

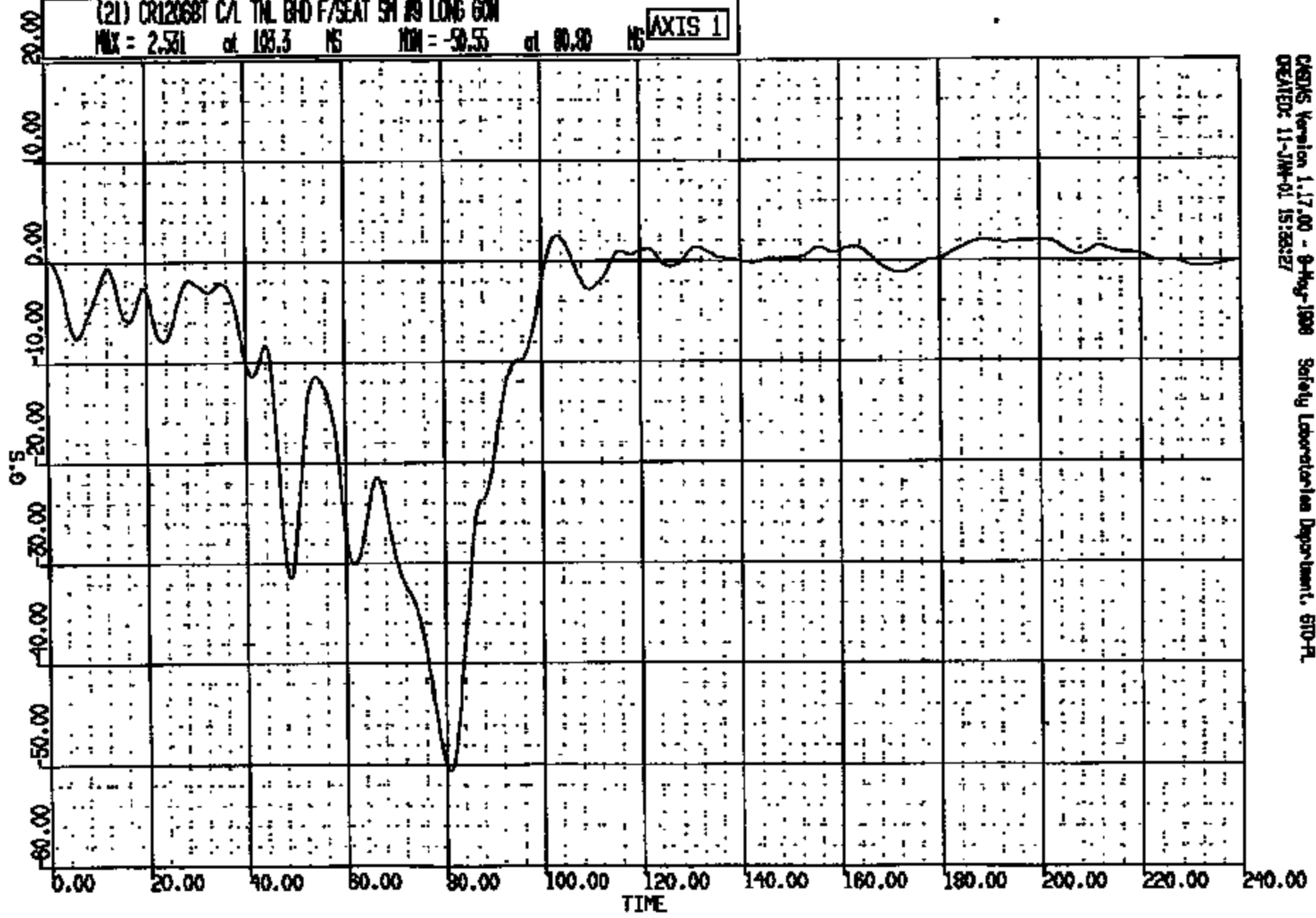


CRSNG Version 1.17.00 - 8-May-1998 Safety Laboratories Department, BTD-PL
CREATED: 11-JAN-01 15:35:08

CRIS 0012068

CR R: 12068 TO: TC1984 DATE: 001118 18:25:34
2000 D-188

(21) CR12068T C/L TNL BHD F/SEAT SH #9 LONG 60M
MAX = 2.561 at 103.3 NS MIN = -50.55 at 80.00 NS **AXIS 1**



CASYS Version 1.17.00 - 9-Aug-1998 Safety Laboratories Department, STD-FL
CREATED: 11-JUN-01 15:33:27

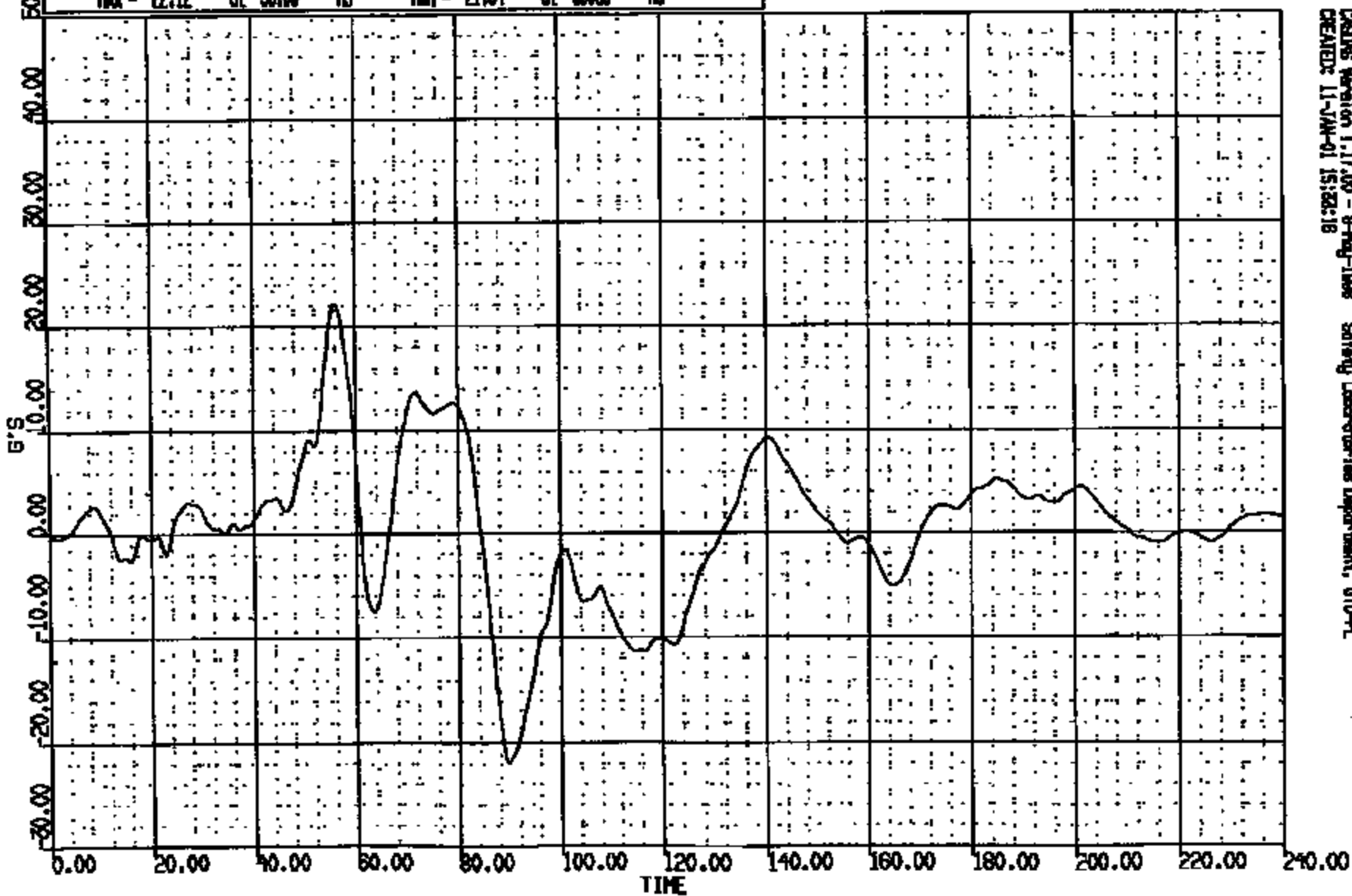
CRTS 0012068

OK R: 12068 TO: TC1024 DATE: 001113 15:25:54
8000 0-100

(22) CR12068T CA TNL END F/SEAT SH 79 VERT 60M

MAX = 22.12 at 56.00 IS MIN = -21.94 at 88.00 IS

AXIS 1



CARDS Version 1.17.00 - 8-May-1998 Safety Laboratories Department, GTD-PL
CREATED: 11-JAN-01 15:25:18

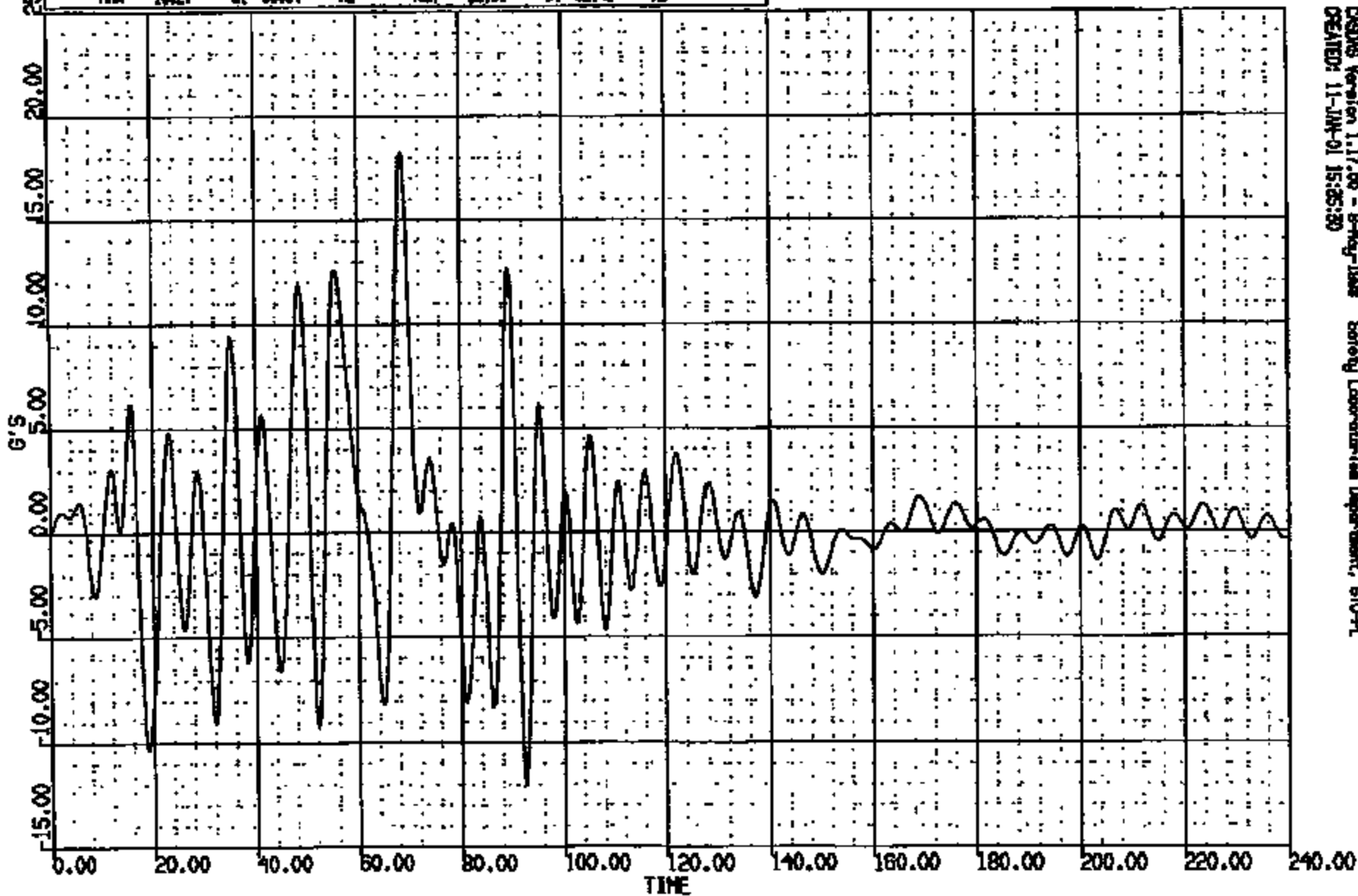
CRIS 0012068

CR R: 12068 TO: TC1854 DATE: 001115 15:25:34
2000 D-186

(9) CR12068T C/L TML @ DASH WCH #2 LAT 60N

MAX = 19.27 at 68.01 NS MIN = -12.01 at 92.40 NS

AXIS 1

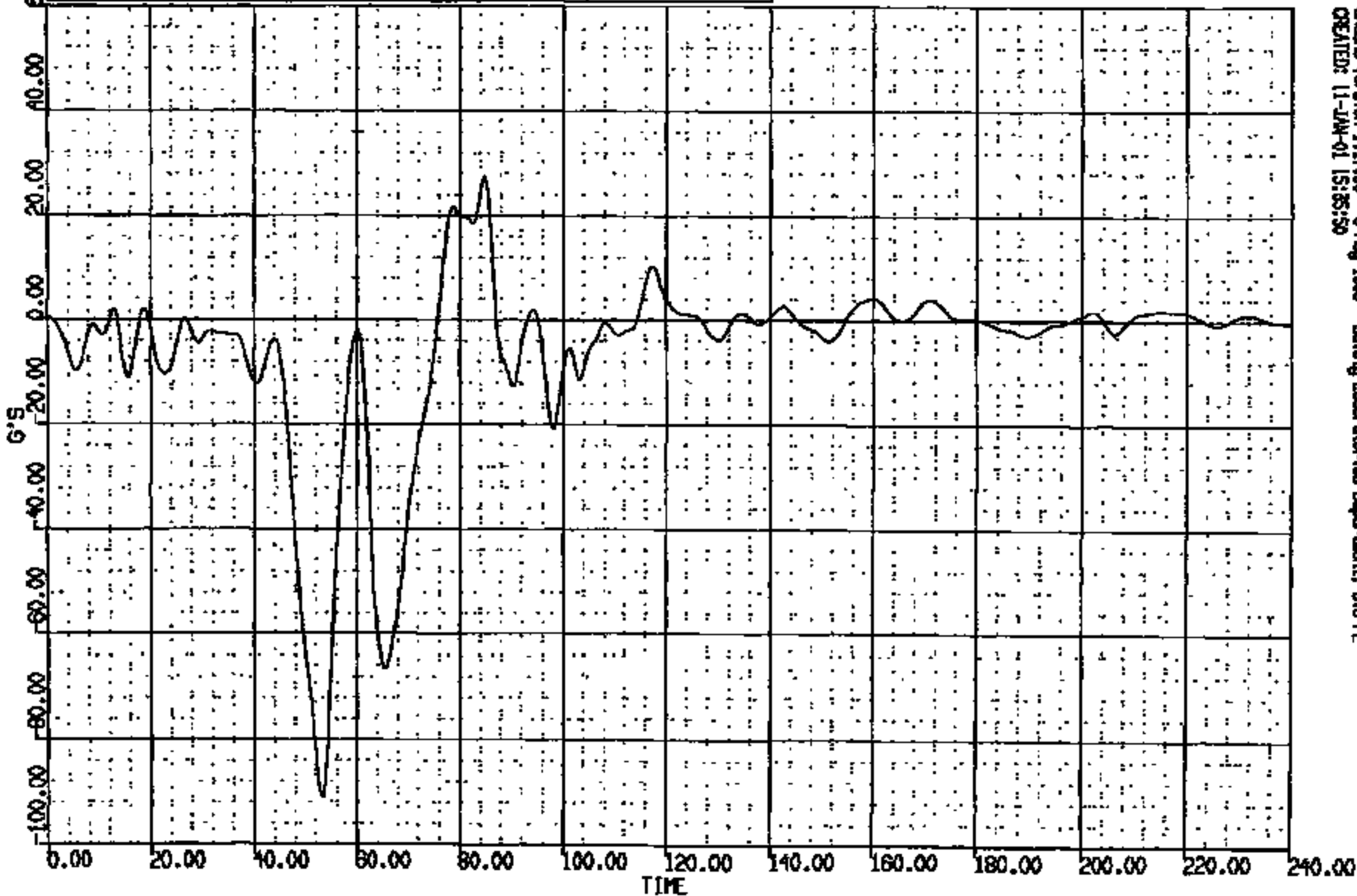


CRS08 Version 1.17.00 - 8-May-1998 Safety Laboratories Department, 610-PI
CREATED: 11-JUN-01 15:25:20

CRIS 0012068

CR R: 12068 TO: TC1834 DATE: 001118 15:25:34
2000 D-188

(7) CR12068T C/L TNL @ DASH RCH #2 LONG 60N
MAX = 27.45 at 84.80 MS MIN = -91.03 at 53.20 MS **AXIS 1**

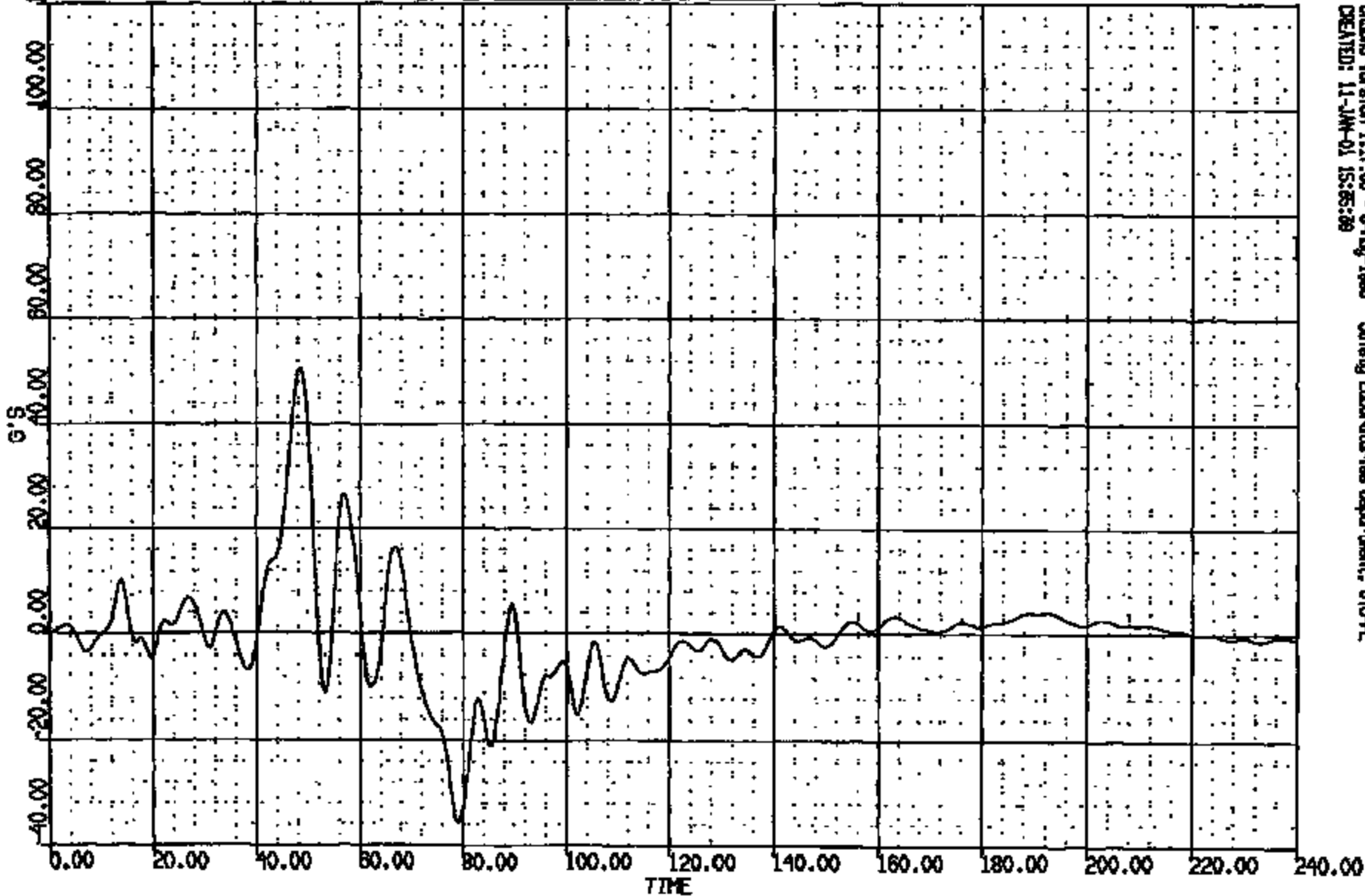


CRSIS Version 1.17.00 - 9-May-1998 Safety Laboratories Department, 610-PL
CREATED: 11-JAN-01 15:25:30

CRIS 0012068

DR R: 12068 TO: TC1834 DATE: 001118 18:25:34
2000 D-188

(8) CR12068T C/L TNL @ DASH RCH #2 VERT 60N
MAX = 50.55 at 48.40 MS MIN = -35.53 at 79.04 MS **AXIS 1**

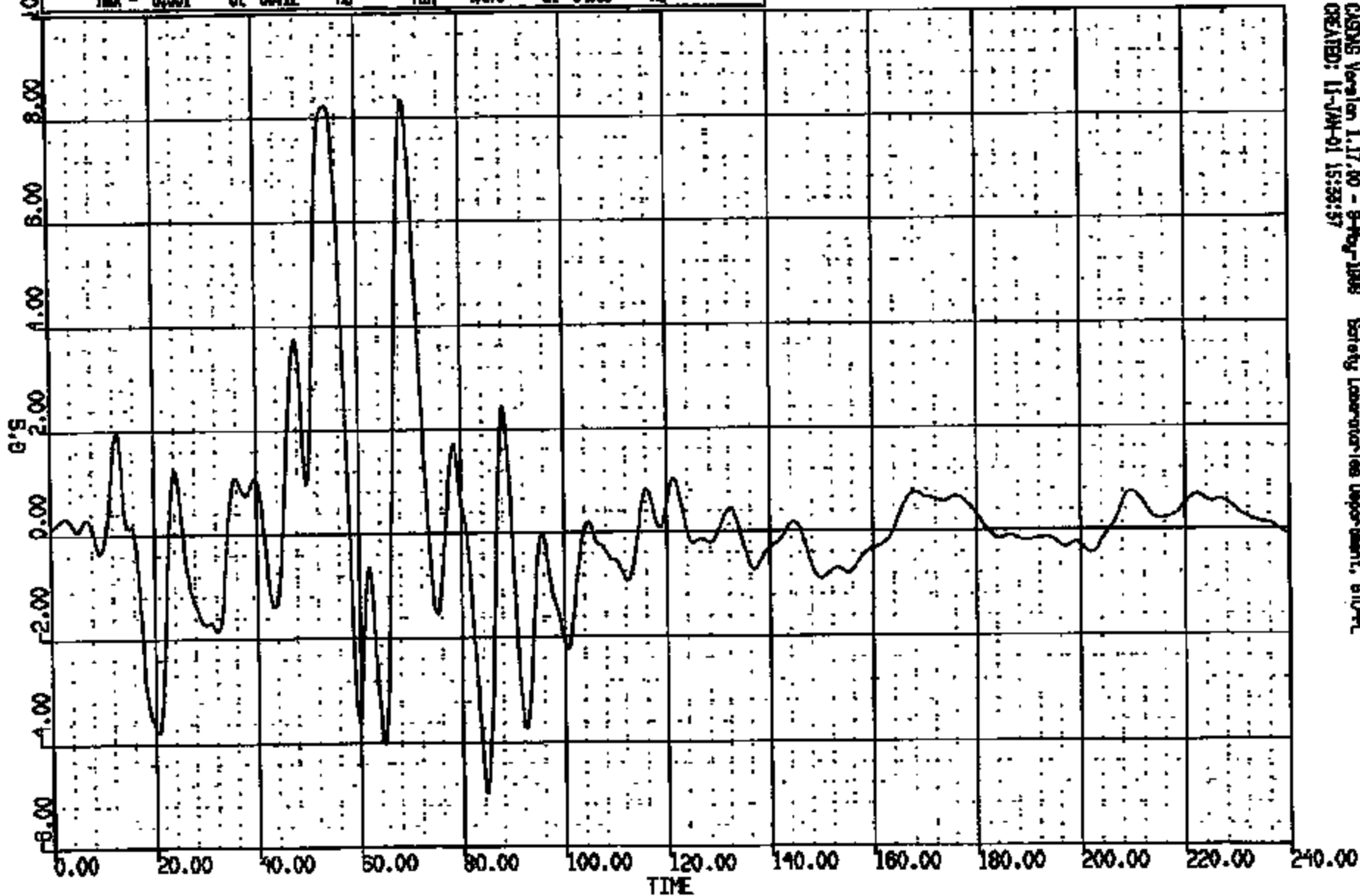


CRS Version 1.17.00 - 8-May-1998 Safety Laboratories Department, 610-A
CREATED: 11-JAN-01 15:55:39

CRIS 0012068

CR R: 12068 TO: TC1834 DATE: 001115 13:26:34
2000 0-189

(20) CR12068T CAL TNL @ DASH 54 J8 LAT 60H
MAX = 8.351 at 68.12 NS MIN = -4.976 at 81.56 NS **AXIS 1**

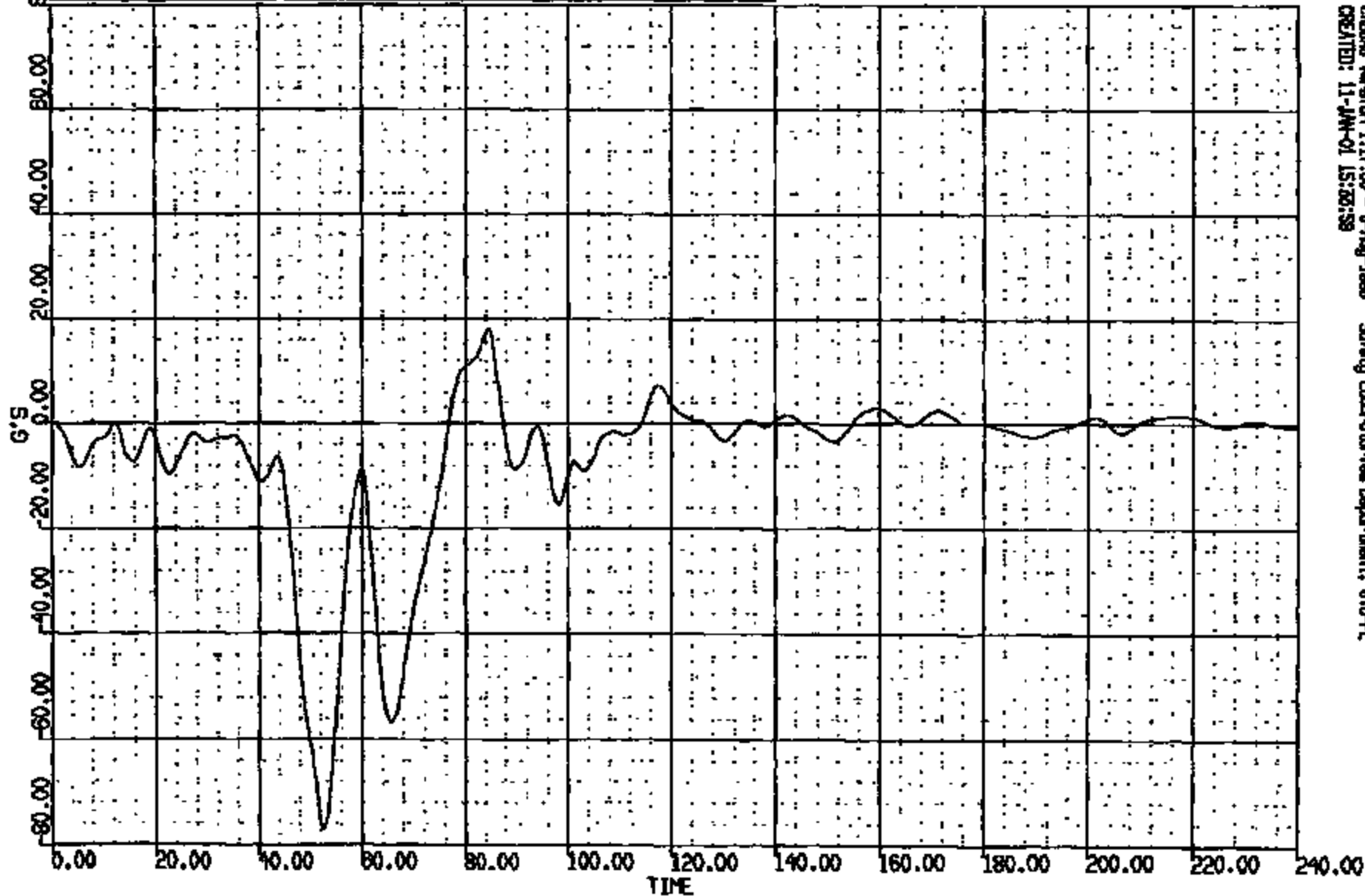


CADDS Version 1.17.00 - 9-May-1998 Safety Laboratories Department, 810-9L
CREATED: 11-JAN-01 15:35:57

CRIS 0012068

CR #: 12068 TO: TC1854 DATE: 001115 15:26:54
2000 D-198

(18) CR12068T C/L TNL @ DASH SH #8 LONG 60N
MAX = 17.98 at 84.48 MS MIN = -76.97 at 52.64 MS **AXIS 1**



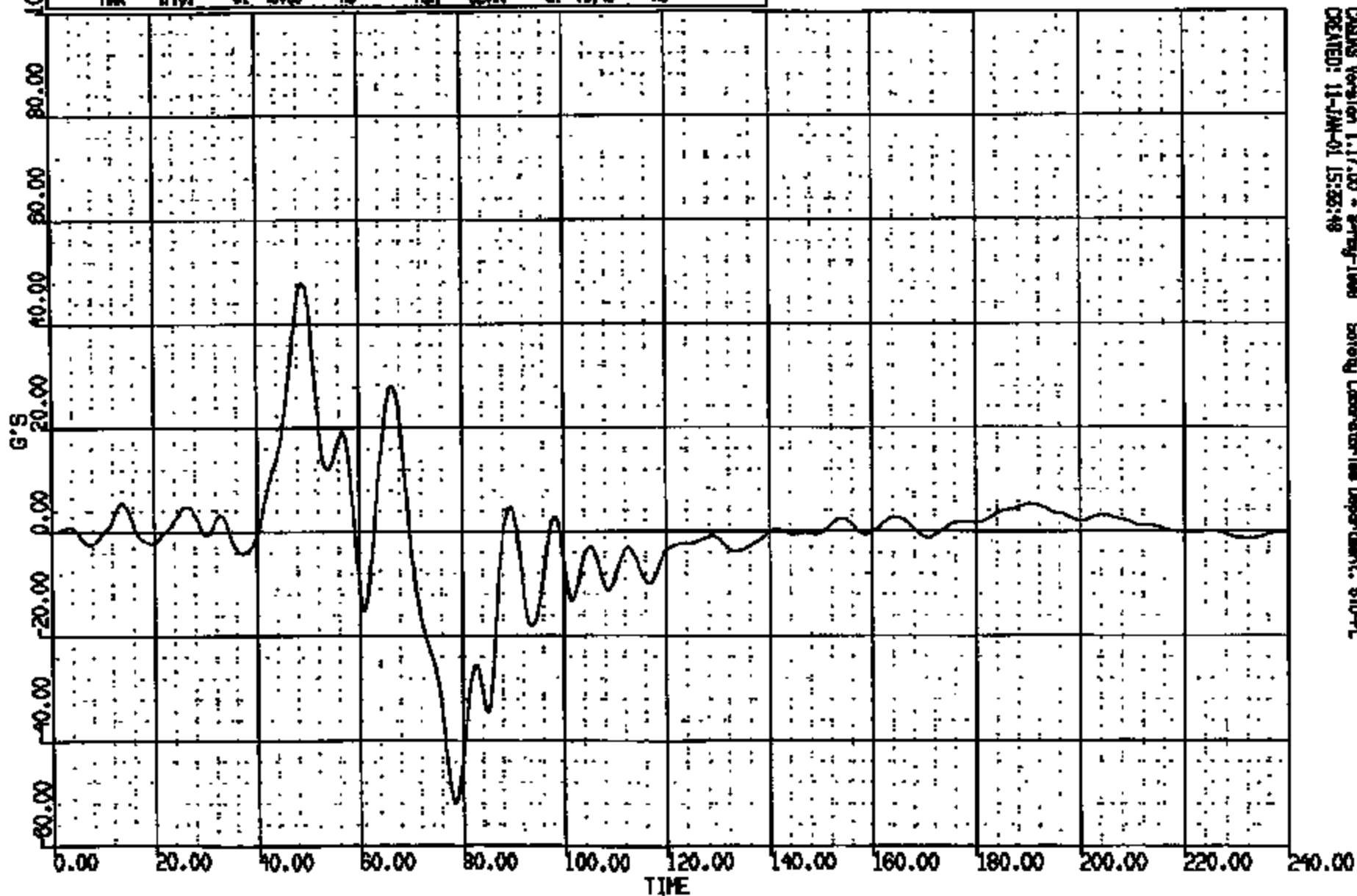
CRSIS Version 1.17.00 - 8-May-1998 Safety Laboratories Department, OTD-PL
CREATED: 11-JAN-01 15:30:59

C. R: 12088 TO: TC1834 DATE: 00111 15:25:54
2000 D-188

(19) CRT2068T C/L TNL @ DASH SN #8 VERT 60N

MAX = 47.01 at 48.96 NS MIN = -52.00 at 78.48 NS

AXIS 1

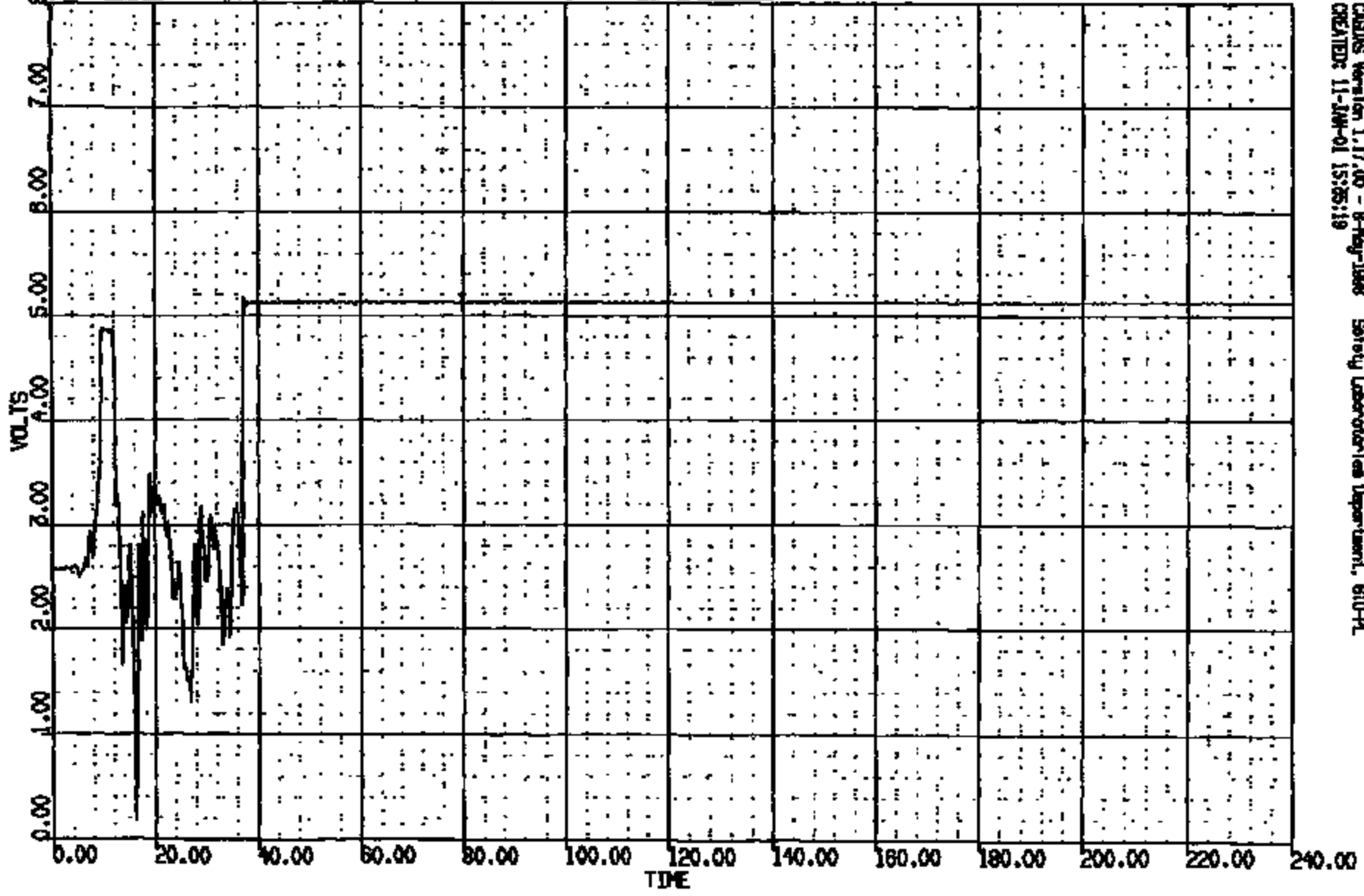


CARDIS Version 1.17.00 - 8-Feb-1988 Safety Laboratories Department, STD-PL
CREATED: 11-JAN-01 15:25:48

CRTS 0012068

CR R: 12068 TO: TC1854 DATE: 00113 15:25:34
2000 D-188

(10) CR12068T C/L INL @ CASH VISI 4000C
MAX = 5.171 at 37.12 MS MIN = 0.1907 at 16.16 MS **AXIS 1**



CASUS Version 1.17.00 - 8-May-1998 Safety Laboratories Department, 610-PL
CREATED: 11-JUN-01 15:25:19

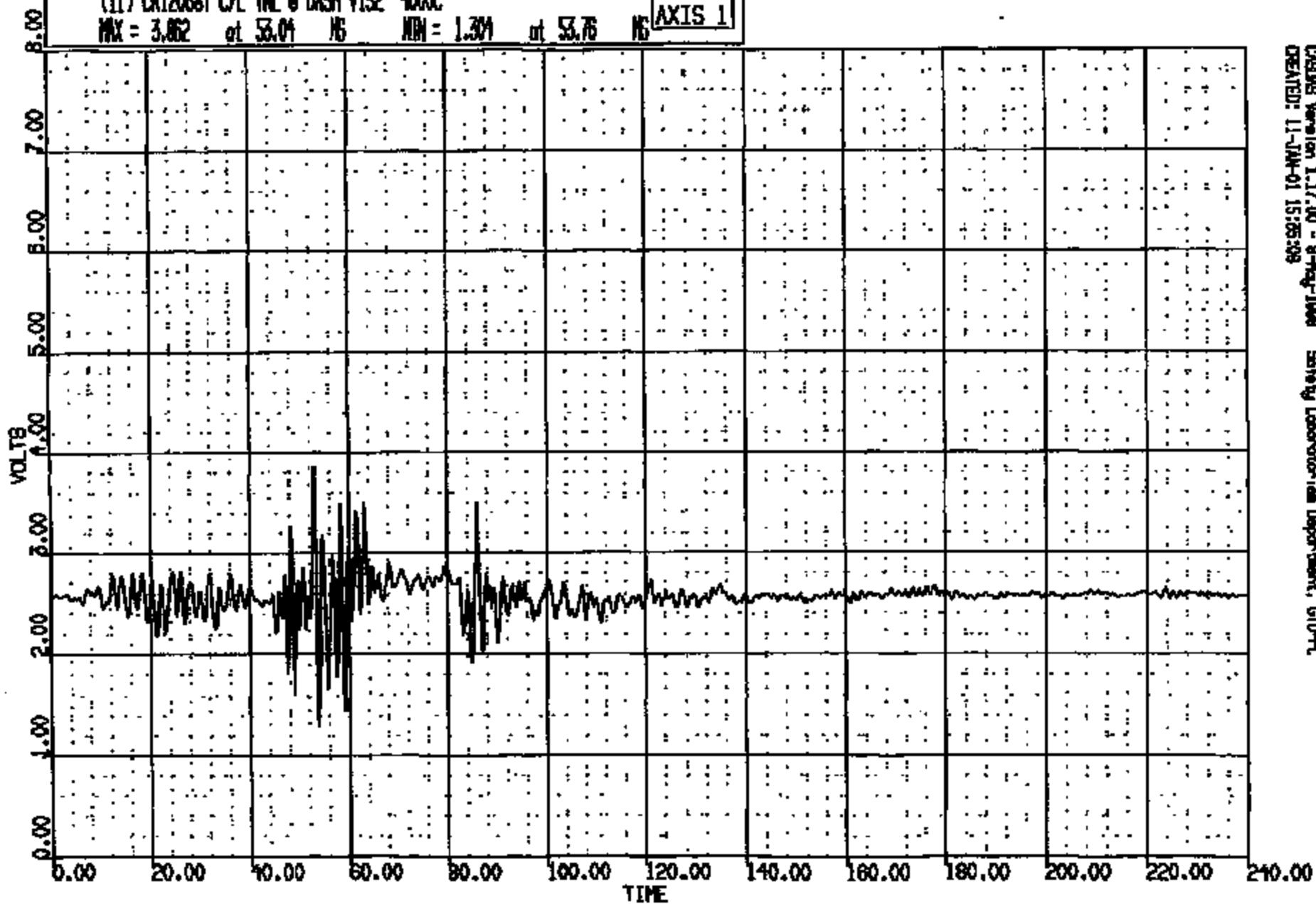
CRTS 0012068

C. R: 12068 TO: TC1854 DATE: 00111. 18:25:34
2000 D-168

(11) CR12068T C/L TML @ DASH V152 40XC

MAX = 3.852 at 53.04 NS MIN = 1.304 at 53.76 NS

AXIS 1

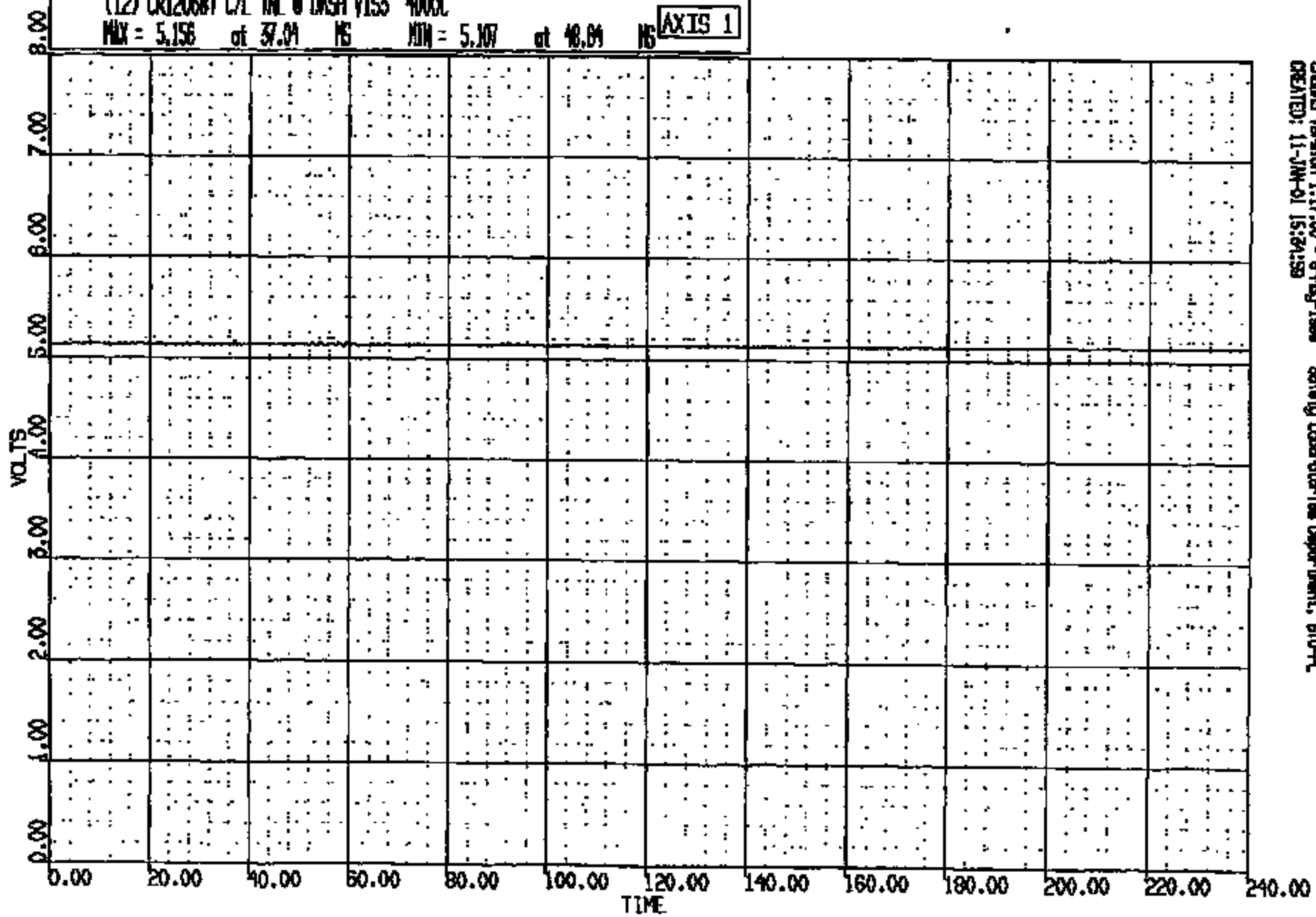


CASPER Version 1.17.00 - 8-May-1998 Safety Laboratory Team Department, GITD-PL
CREATED: 11-JAN-01 15:55:09

CRTS 0012068

0. R: 12068 TO: TC1854 DATE: 00111. 15:25:34
2000 D-188

(12) CR12068T C/L TML @ DASH VIS3 4000C
MAX = 5.156 at 37.04 MS MIN = 5.107 at 48.04 MS **AXIS 1**



CAEMS Version 1.17.00 - 8-May-1998 Safety Laboratories Department, 610-PL
CREATED: 11-JUN-01 15:24:59

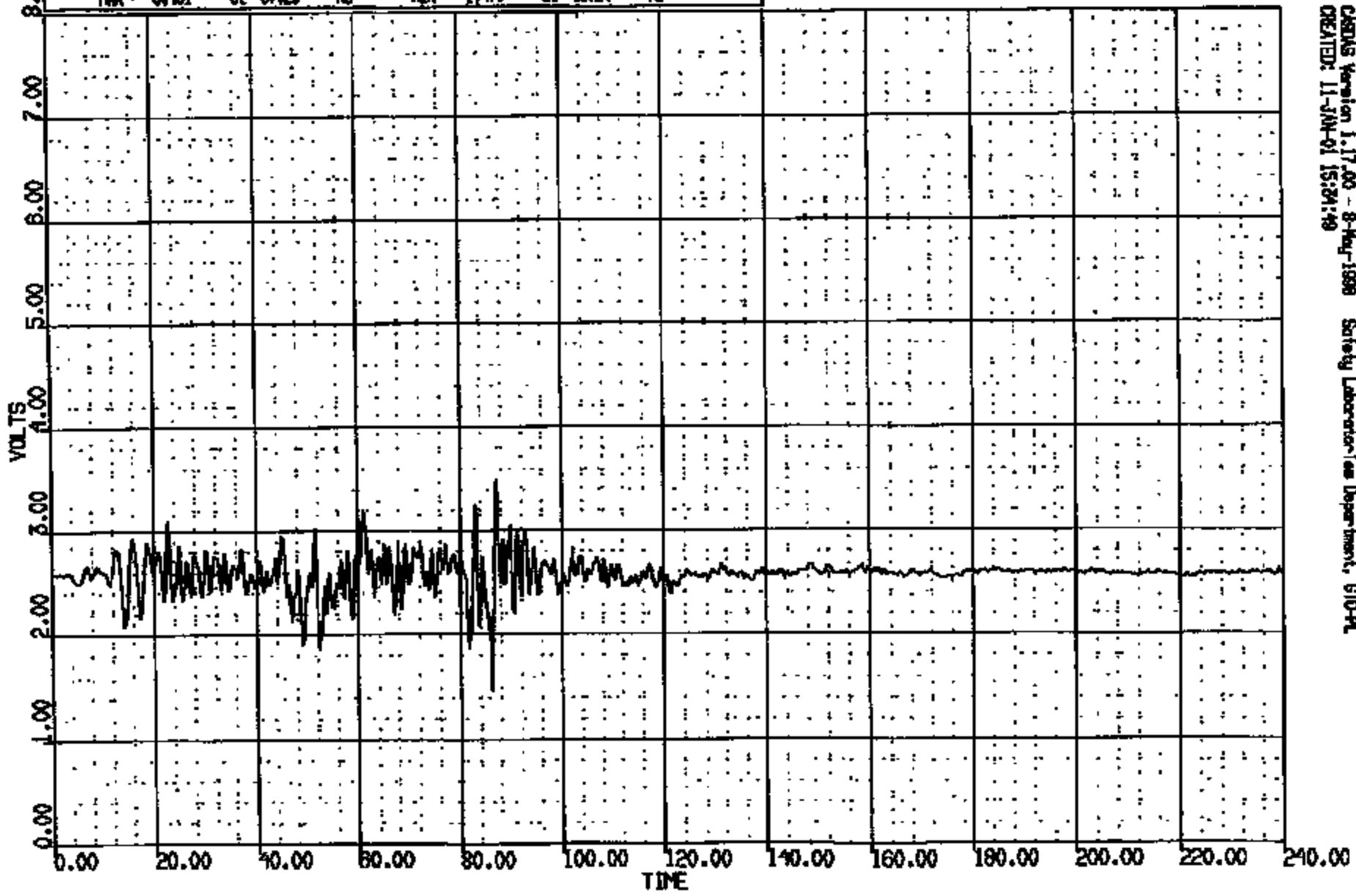
CRTS 0012068

U. R: 12068 TO: TC1834 DATE: 00111. 13:25:34
2000 D-188

(13) CR12068T C/L TNL @ DASH VLSA 4000

MAX = 3.491 at 87.20 NS MIN = 1.475 at 86.21 NS

AXIS 1

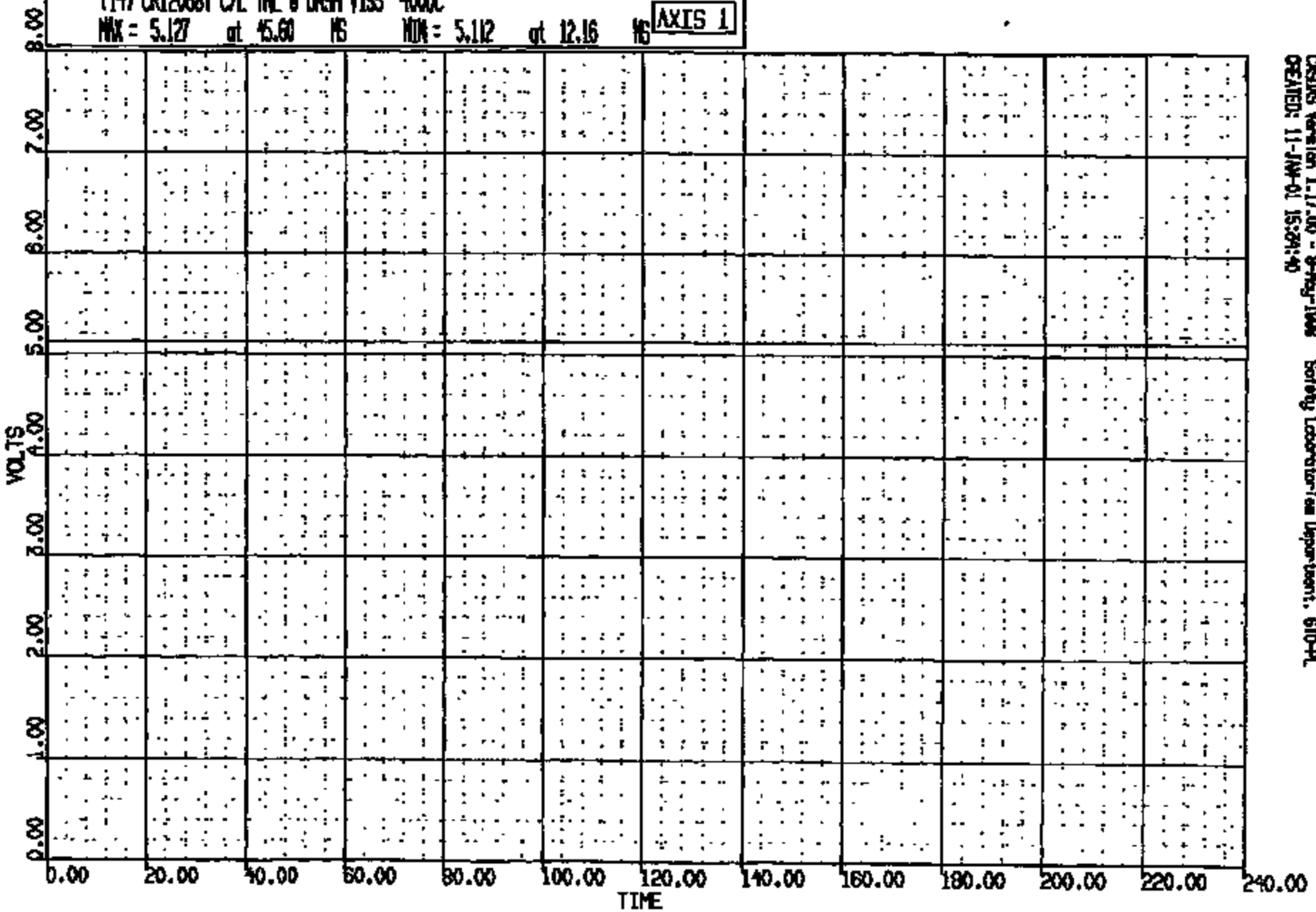


CARDAS Version 1.17.00 - 8-May-1998 Safety Laboratory Department, 610-94
CREATED: 11-JAN-01 15:24:49

CRTS 0012068

C: #1: 12068 TO: TC1834 DATE: 00111 15:25:34
2000 D-186

(14) CR120681 CAL INL @ DASH VISS 4000C
MAX = 5.127 at 45.60 MS MIN = 5.112 at 12.16 MS **AXIS 1**

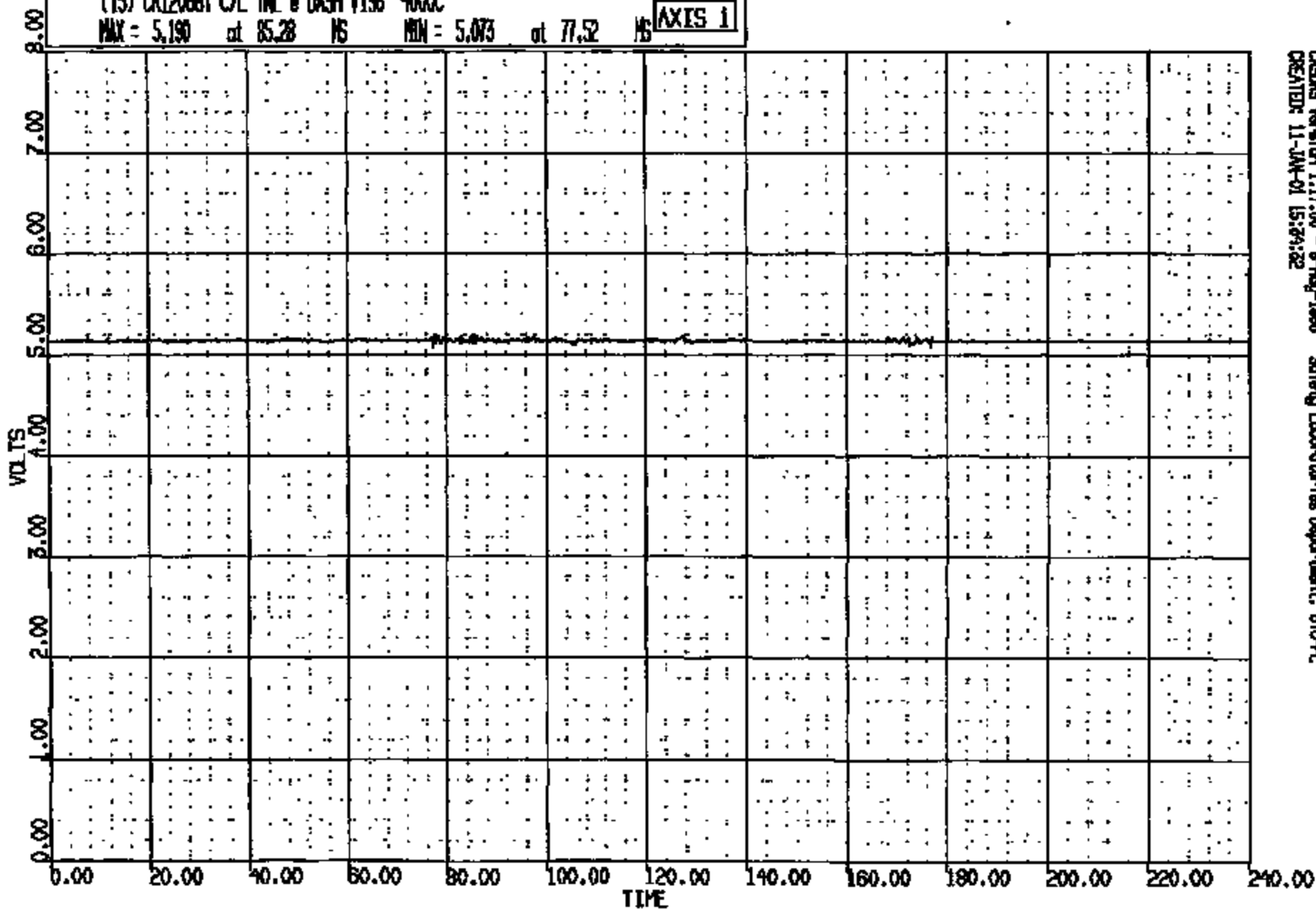


CRS01S Version 1.17.00 - 9-May-1998 Safety Laboratory/In Department, 610-PL
CREATED: 11-JUN-01 15:24:40

CRTS 0012068

C. R: 12088 TO: TC1834 DATE: 00111. 13:25:34
2000 D-188

(15) CR12068Y C/L TML @ DASH V156 4000C
MAX = 5.190 at 85.28 MS MIN = 5.073 at 77.52 MS **AXIS 1**

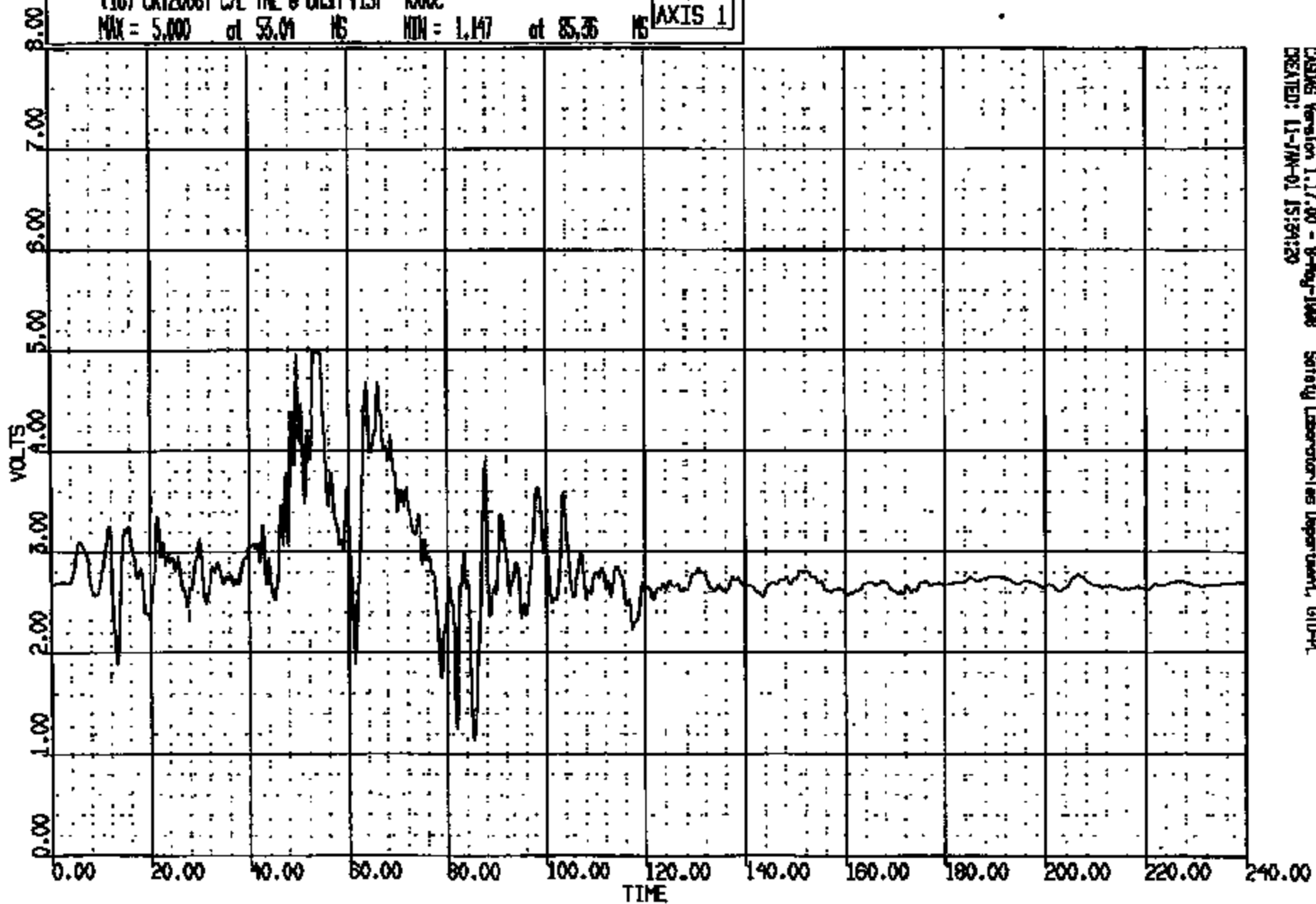


CASMS Version 1.17.00 - 8-May-1998 Safety Laboratories Department, 610-PL
CREATED: 11-JAN-01 15:24:32

CRTS 0012068

D. R: 12068 TO: TC1854 DATE: 001114 15:25:34
2000 D-188

(16) CR12068T C/L TNL @ DASH VIS7 4000C
MAX = 5.000 at 53.01 MS MIN = 1.147 at 85.35 MS **AXIS 1**

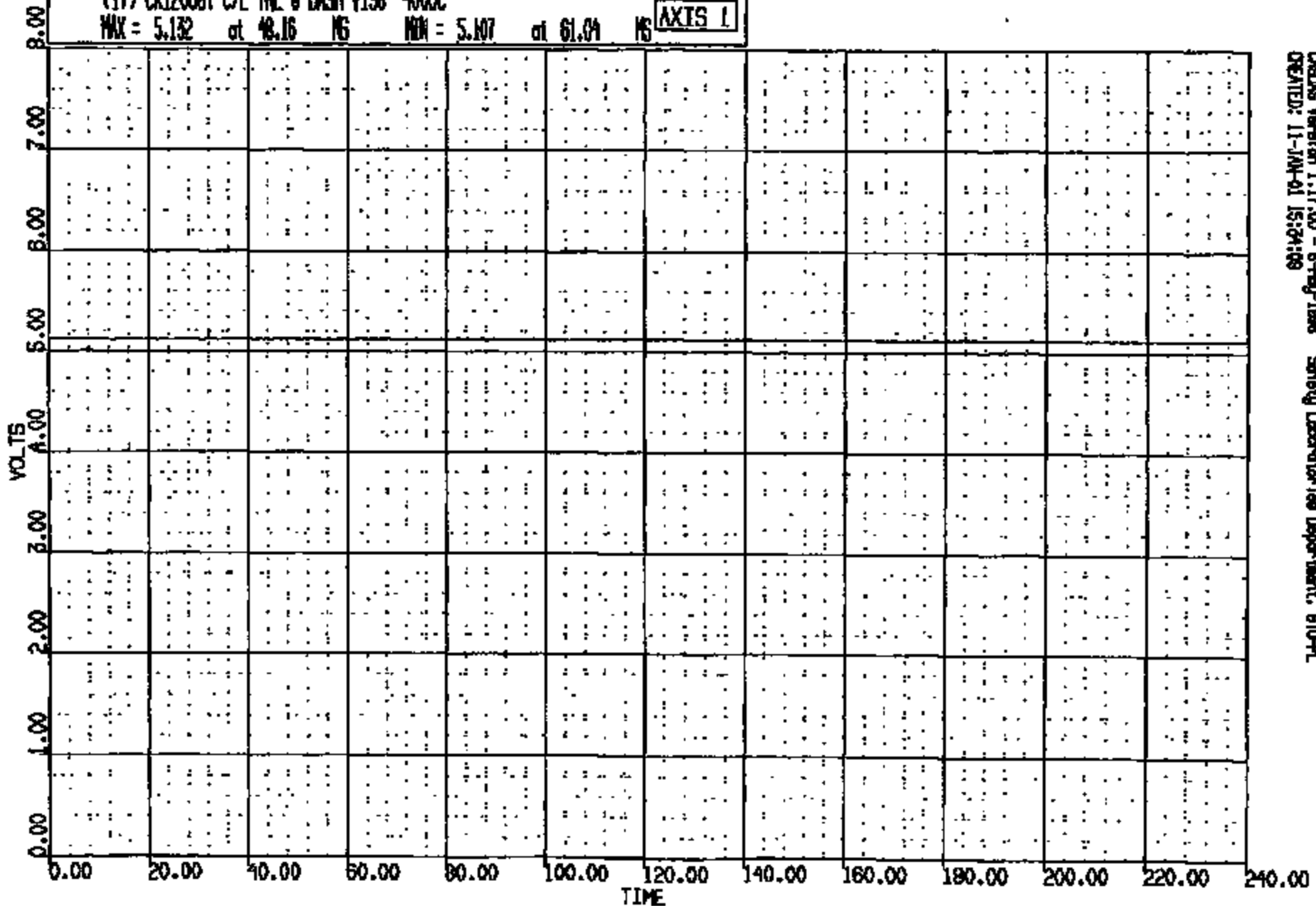


CASMG Version 1.17.00 - 8-May-1988 Safety Laboratories Department, GID-P.
CREATED: 11-JAN-01 15:54:20

CRIS 0012068

CR: R: 12068 TO: TC1834 DATE: 001112 15:25:34
R000 0-185

(17) CR12068T C/L TML 0 DASH V158 4000C
MAX = 5.132 at 48.16 NS MIN = 5.107 at 61.04 NS **AXIS 1**



CASAS Version 1.17.00 - 8-May-1988 Safety Laboratories Department, 610-PL
CREATED: 11-JAN-01 15:24:09

CR1S 0012068

R: 12068 TO: TC1854 DATE: 0011 15:25:54
2000 D-188

(35) CR12068T ENGINE TRANS BOTTOM LAT 60N
MAX = 9.562 at 39.92 MS MIN = -19.54 at 46.40 MS **AXIS 1**

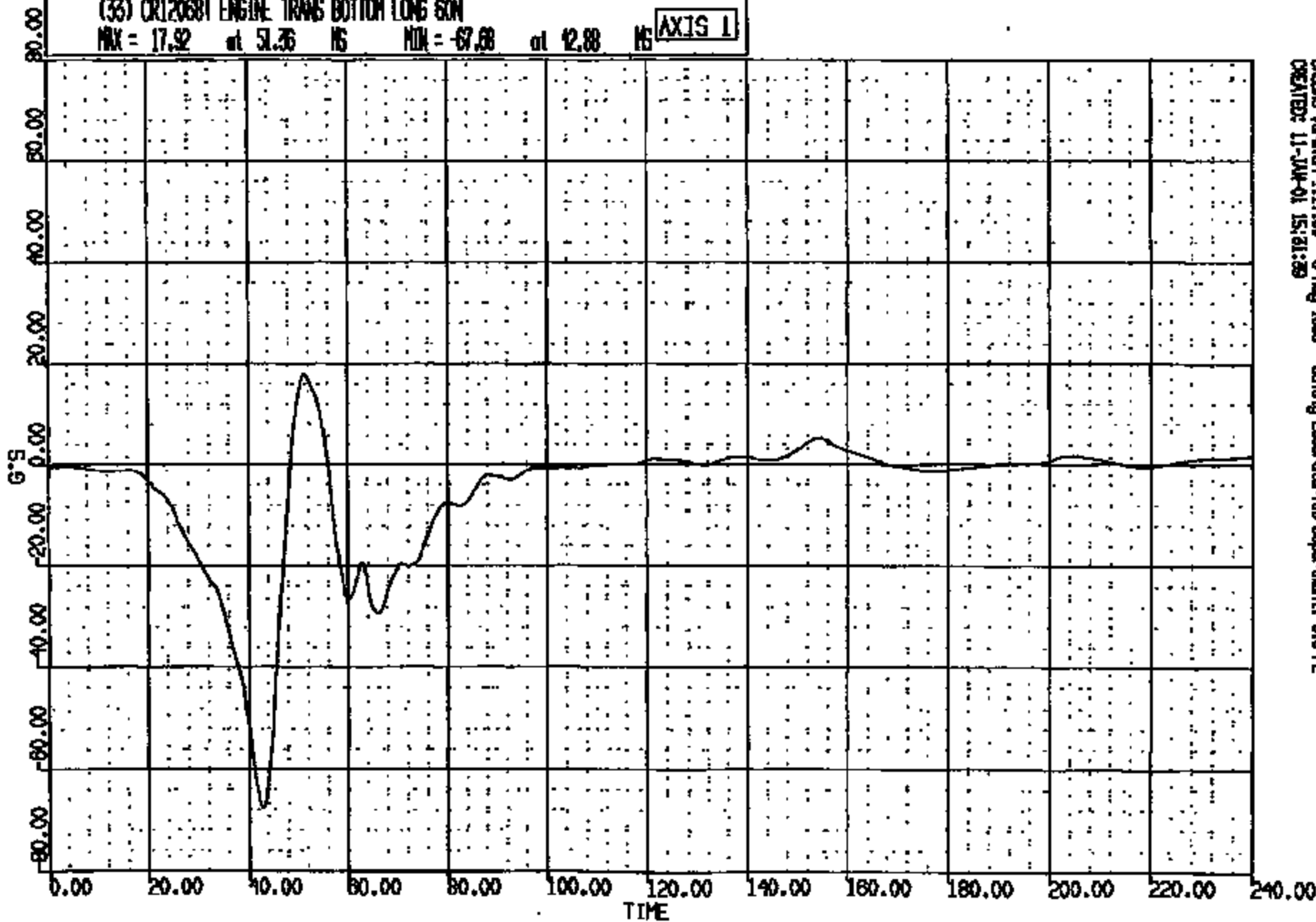


CRTS Version 1.17.00 - 8-May-1988 Safety Laboratories Department, 610-P
CREATED: 11-JAN-01 15:31:22

CRTS 0012068

R: 12068 TO: TC1884 DATE: 00111. 13:25:34
2000 D-188

(33) CR12068T ENGINE TRANS BOTTOM LONG 6CM
MAX = 17.92 at 51.36 MS MIN = -67.68 at 12.88 MS **AXIS 1**



CASYS Version 1.17.00 - 8-May-1988 Safety Laboratories Department, 610-PL
CREATED: 11-JUN-01 15:21:29

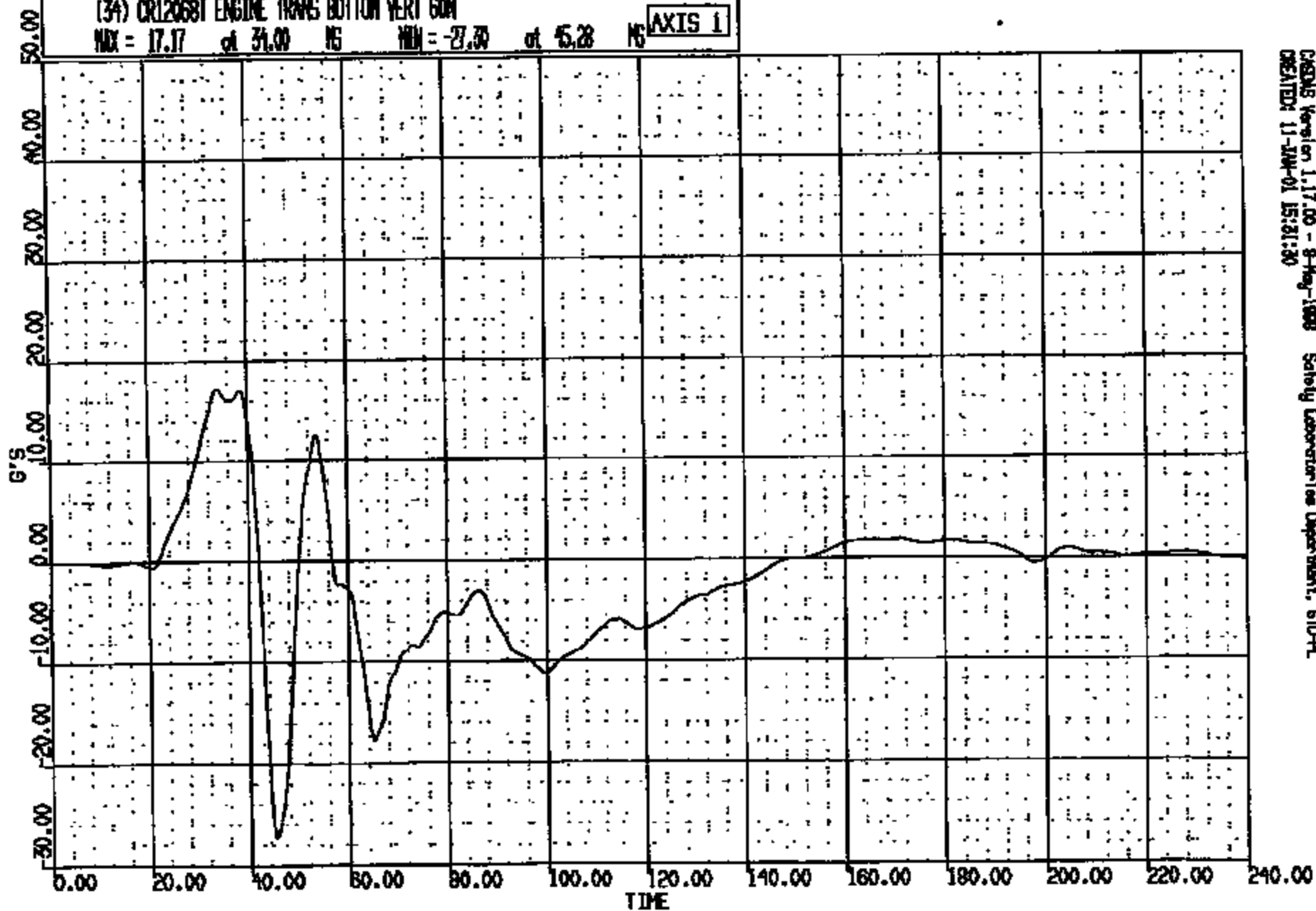
CRTS 0012068

D. R: 12068 TO: TC1854 DATE: 00111 15:25:54
2000 D-188

(34) CR12068T ENGINE TRAVS BOTTOM VERT 60M

MAX = 17.17 at 34.00 MS MIN = -27.30 at 45.28 MS

AXIS 1



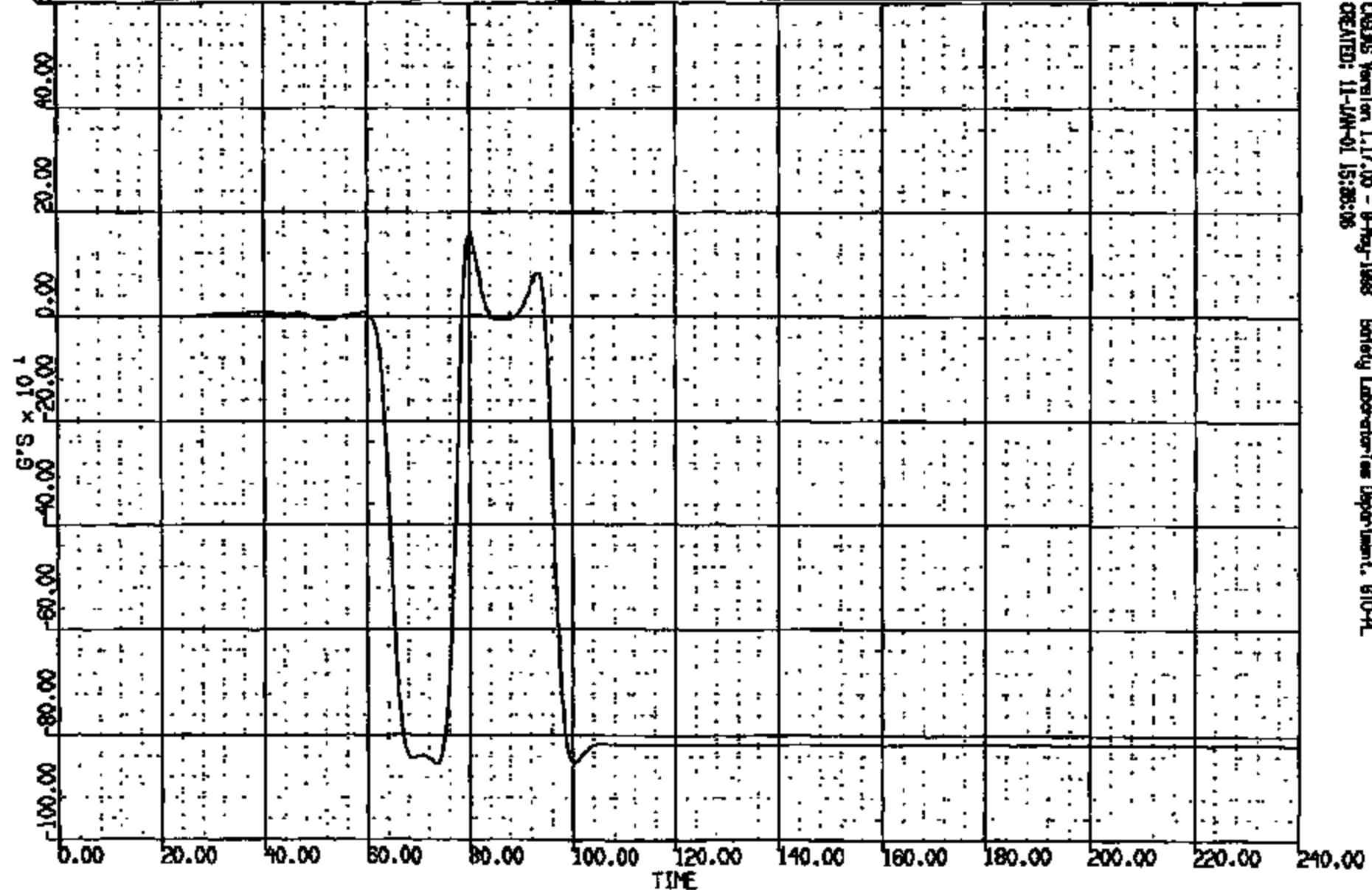
CASABE Version 1.17.00 - 8-May-1998 Safety Laboratory Inc Department, STD-FL
CREATED: 11-JAN-01 15:21:30

CRIS 0012068

Q: R: 12088 TO: TC1834 DATE: 001112 13:23:34
2000 D-188

(6) CR12088T ENGINE TRANS TOP LAT GON
MAX = 155.4 at 80.00 MS MIN = -851.4 at 73.41 MS

AXIS 1
PROPERTY KEY:
* - Horizontal axis extended full scale
* - Horizontal axis 50.00% of full scale
* - All data < 12.50% of full scale
* - 21 percent offset on Y-axis



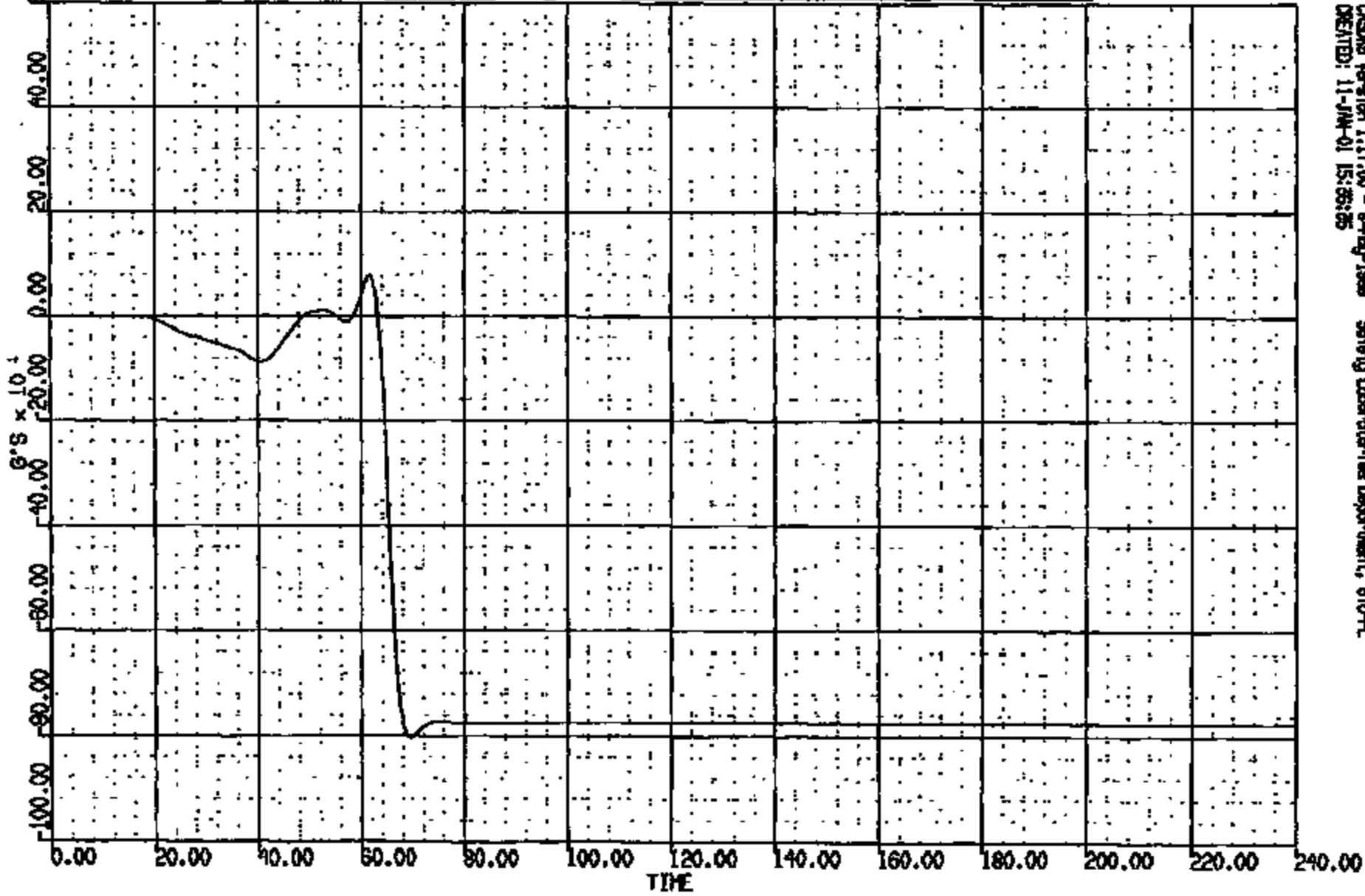
CRSIS Version 1.17.00 - 8-May-1988 Safety Laboratories Department, 610-71
CREATED: 11-JAN-01 15:38:08

CRTS 0012068

CR: R: 12068 TC: TC1854 DATE: 001112 15:25:54
2000 0-188

(4) CR12068T ENGINE THRU TOP LONG GON
MAX = 78.25 at 61.75 MS MIN = -803.2 at 68.75 MS **AXIS 1**

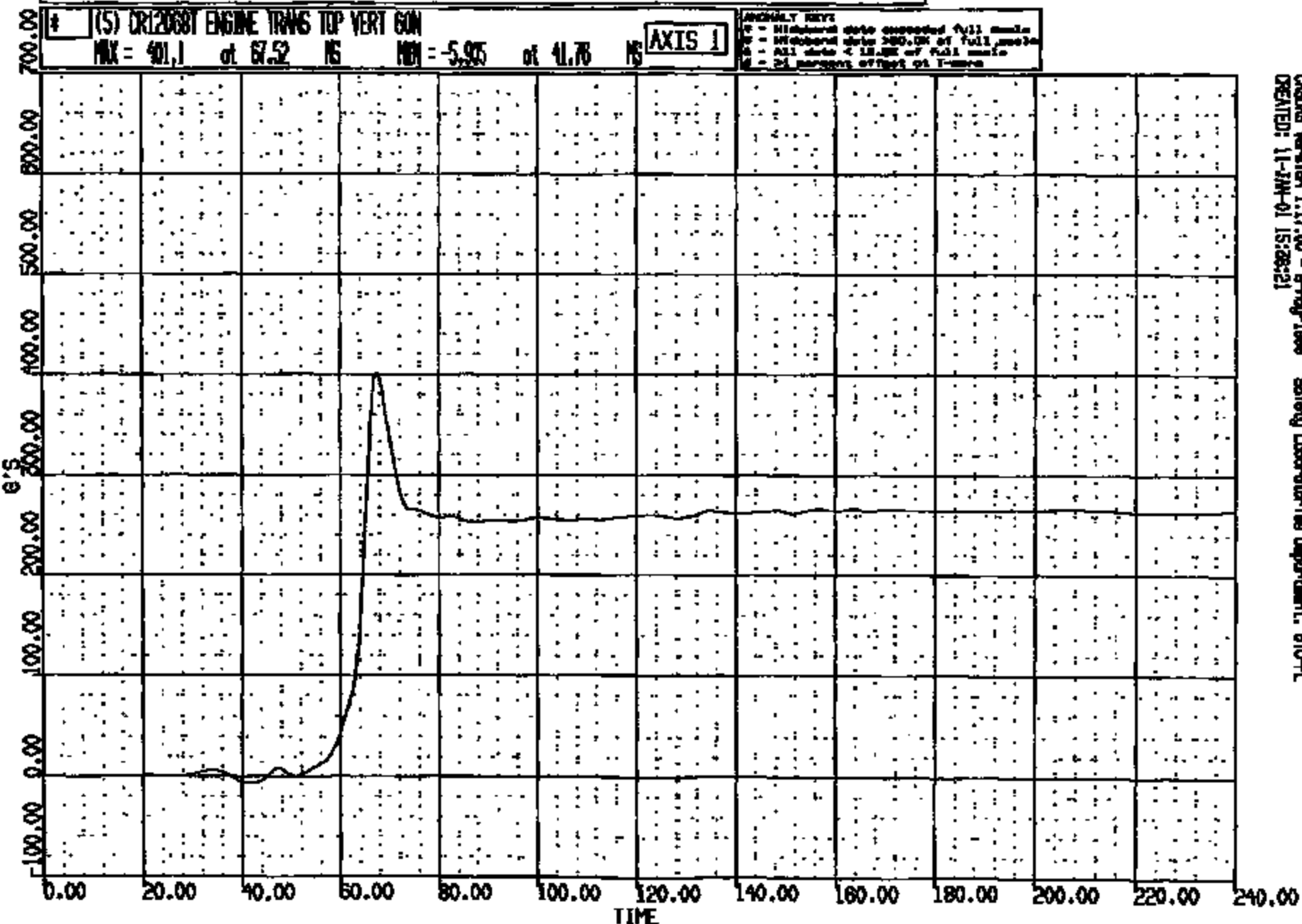
NOISY KEY:
* - Noisy data exceeded full scale
- Noisy data >50.0% of full scale
@ - All data < 10.0% of full scale
E - 25 percent signal at T-zero



CASIMS Version 1.17.00 - 8-May-1999 Safety Laboratories Department, 610-PL
CREATED: 11-JUN-01 15:25:25

CRIS 0012068

CR R: 12068 TO: TC1834 DATE: 00111 18:25:54
2000 D-188

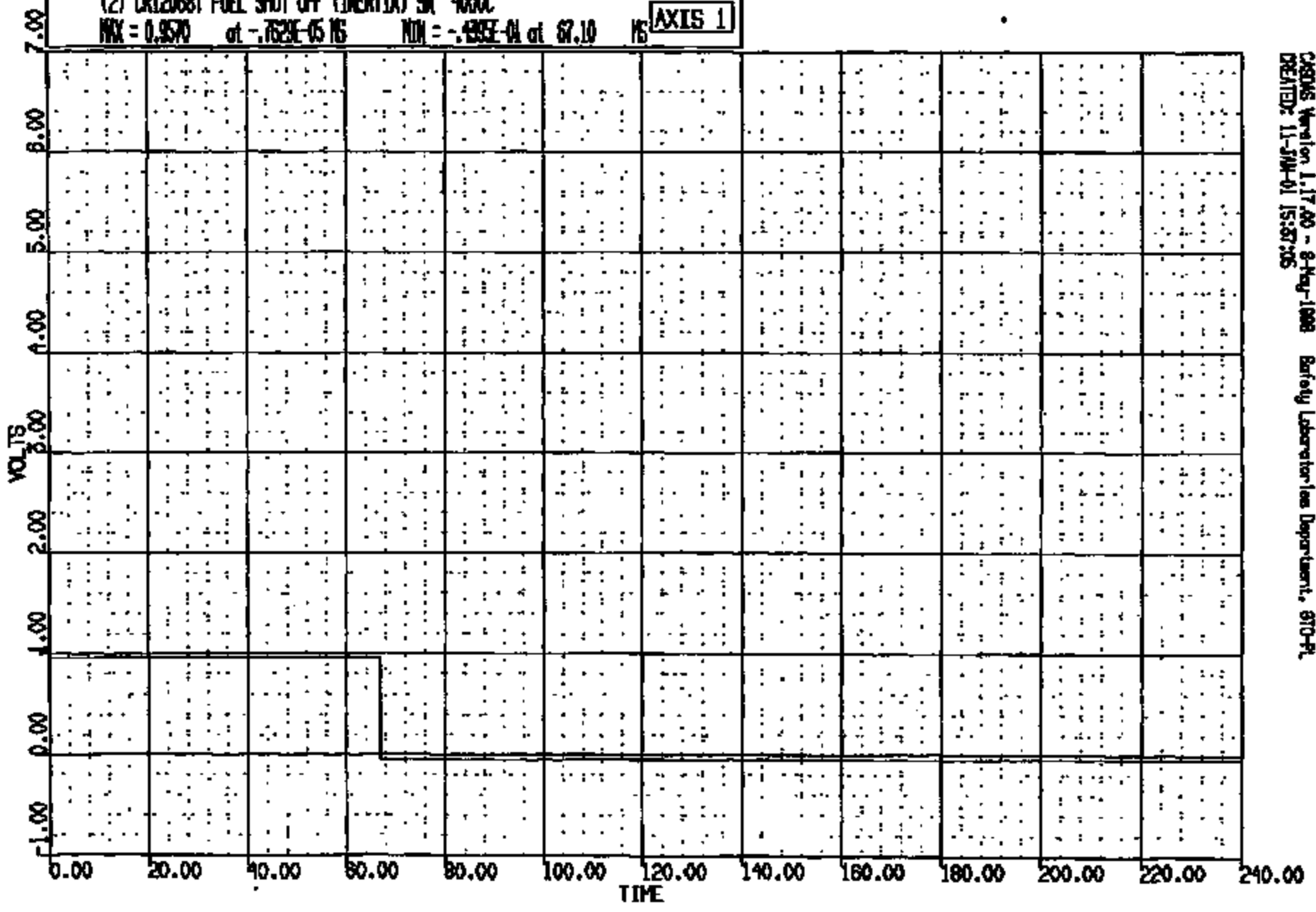


CASINS Version 1.17.00 - 8-May-1988 Safety Laboratories Department, 870-PL
CREATED: 11-JAN-01 15:28:21

CRIS 0012068

CR 12068 TO: TC1834 DATE: 001112 15:28:34
2000 D-188

(2) CR12068T FUEL SHUT OFF (INERTIA) SA 400C
MAX = 0.9570 at -.752E-05 MS MIN = -.435E-04 at 87.10 MS AXIS 1

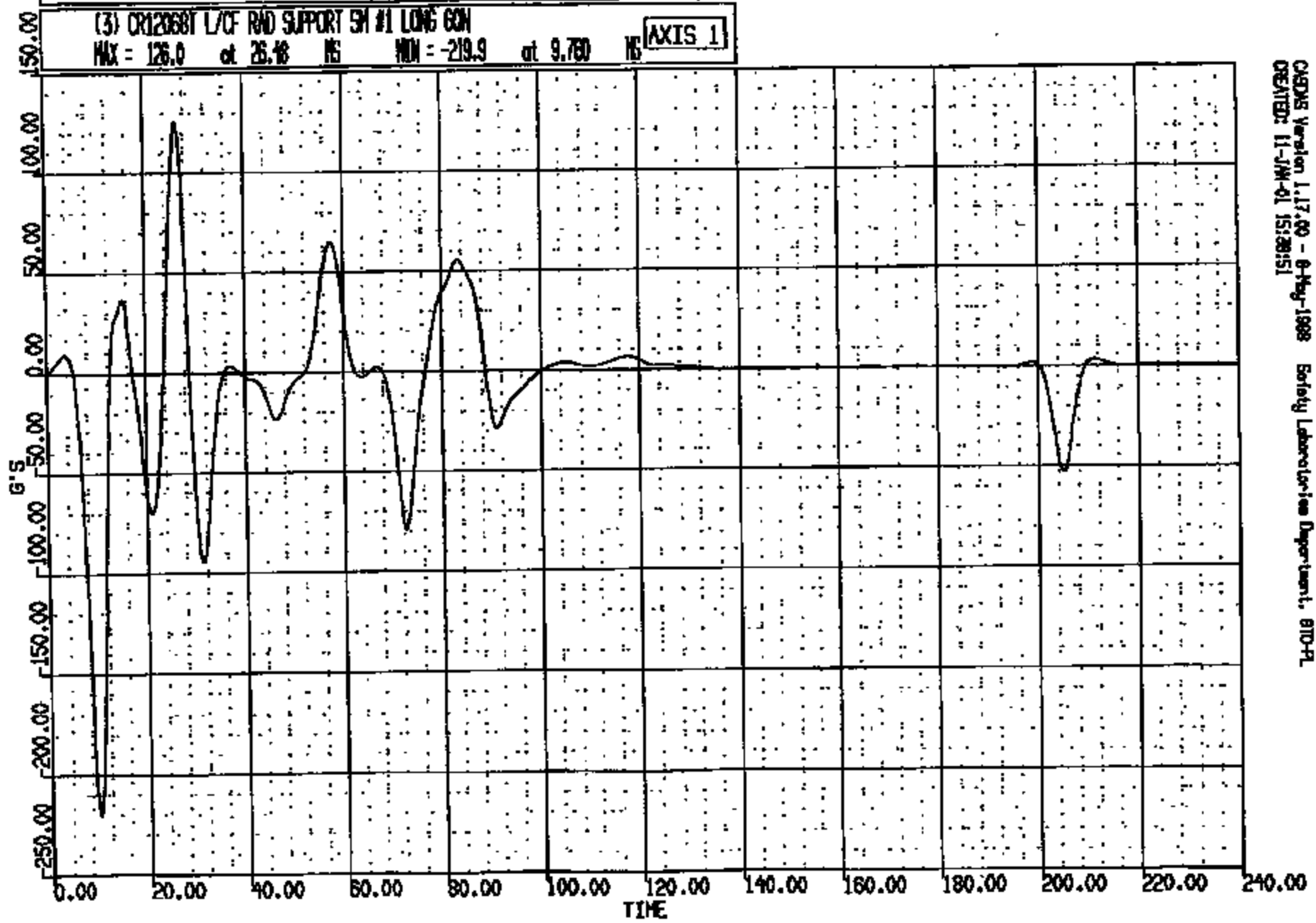


CRAMS Version 1.17.00 - 8-May-1998 Safety Laboratories Department, 870-PL
CREATED: 11-JUN-01 15:57:05

CRTS 0012068

CR R= 12068 TO: TC1824 DATE: 001111 12:25:34
2000 D-188

(3) CR12068T L/CF RAD SUPPORT SM #1 LONG CON
MAX = 126.0 at 25.18 NS MIN = -219.9 at 9.760 NS **AXIS 1**



CADDS Version 1.17.00 - 8-May-1988 Safety Laboratories Department, BTD-FL
CREATED: 11-JAN-01 15:28:51

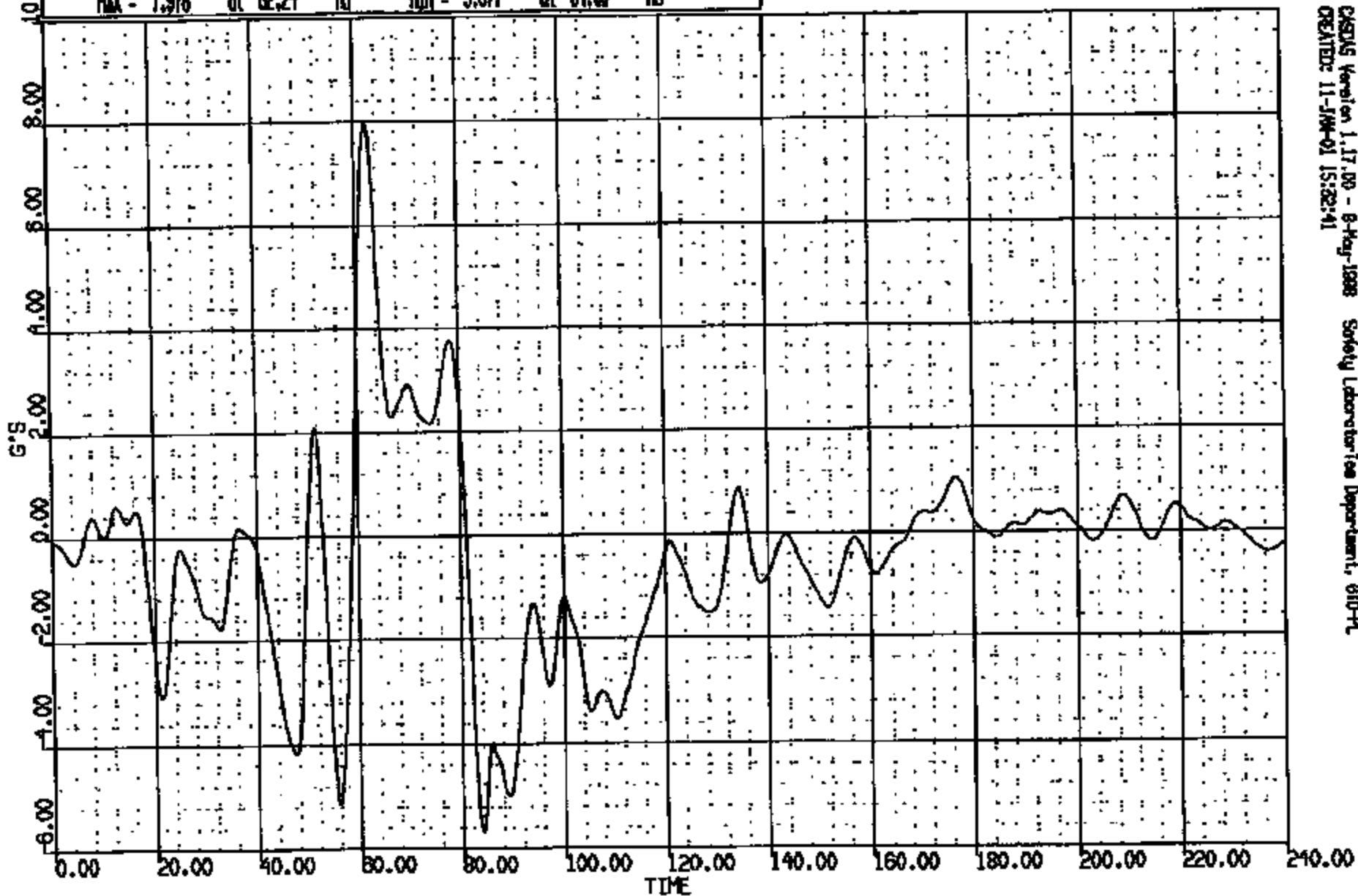
CR12068

CR R: 12068 TO: TC1834 DATE: 001115 15:25:54
2000 D-188

(25) CR12068T LAF FLR PNH #20MR CTR SN #5 LAT 60N

MAX = 7.978 at 62.24 NS MIN = -5.677 at 84.00 NS

AXIS 1

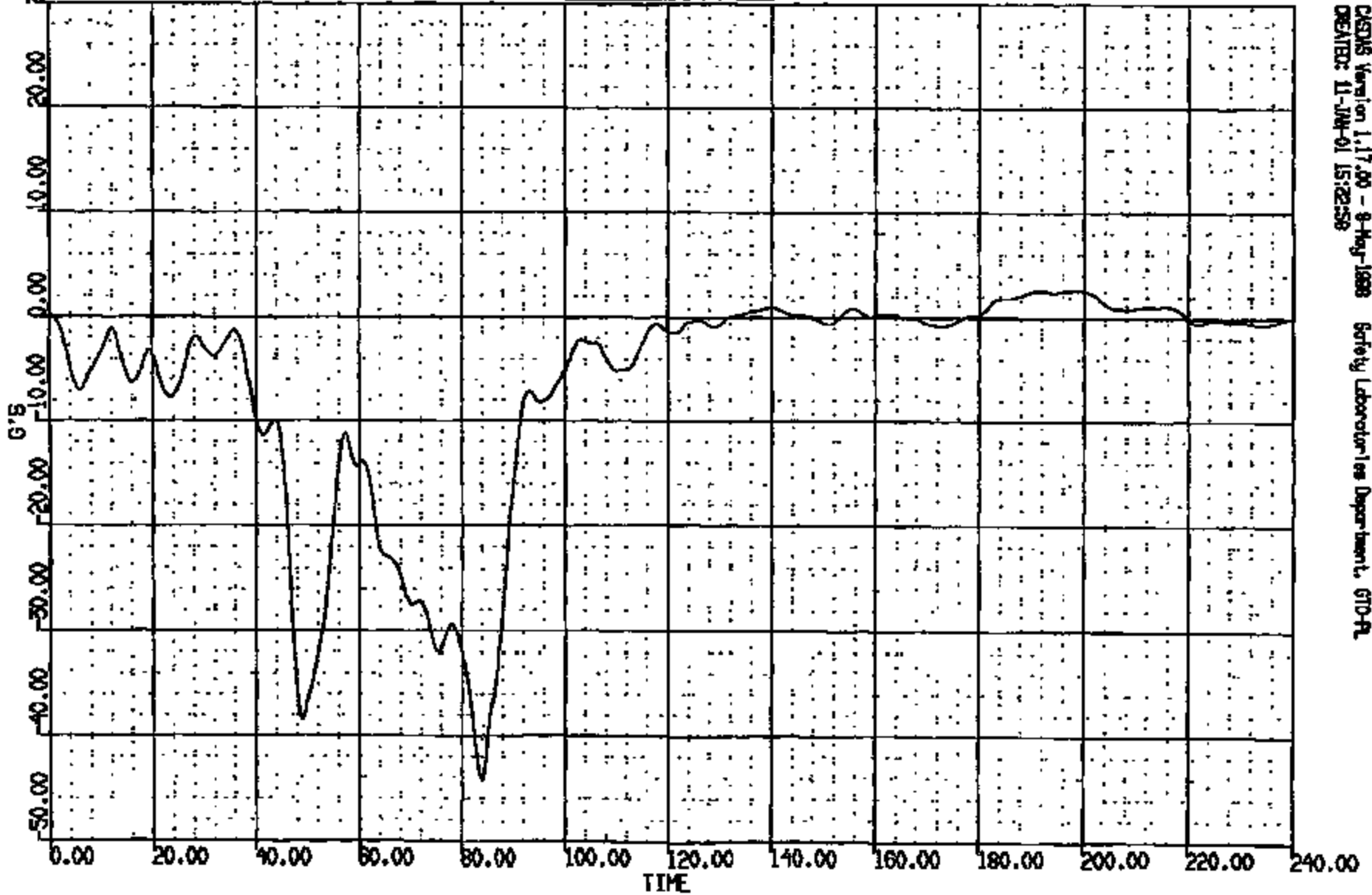


CRISIS Version 1.17.00 - 8-May-1998 Safety Laboratories Department, STD-PL
CREATED: 11-JAN-01 15:25:41

CRIS 0012068

CK R: 12068 TO: TC1834 DATE: 001112 15:25:34
2000 D-188

(21) CR12068T L/F FLR PAMB #2XMR CTR SH #5 LONG 60N
MAX = 2.645 at 198.2 NS MIN = -41.17 at 81.00 NS **AXIS 1**

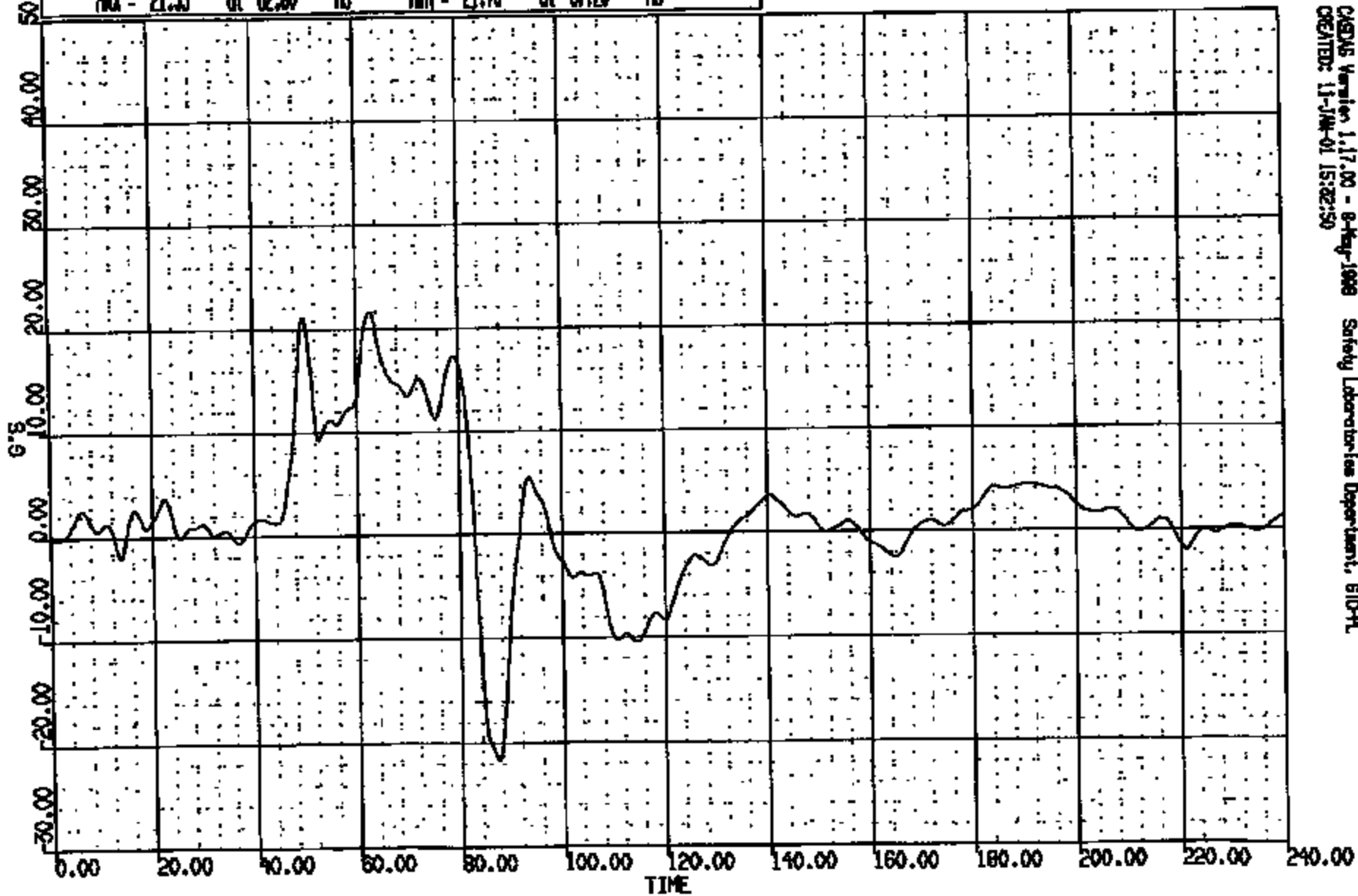


CASMS Version 1.17.00 - 8-May-1998 Safety Laboratories Department, GTD-FL
CREATED: 11-JUN-01 15:25:38

CRIS 0012068

CR: R: 12068 TO: TC1834 DATE: 001112 15:25:34
2000 D-188

(25) CR12068T L/F FLR PWB #20BR CTR SH IS VERT GON
MAX = 21.55 at 62.80 NS MIN = -21.70 at 87.20 NS **AXIS 1**

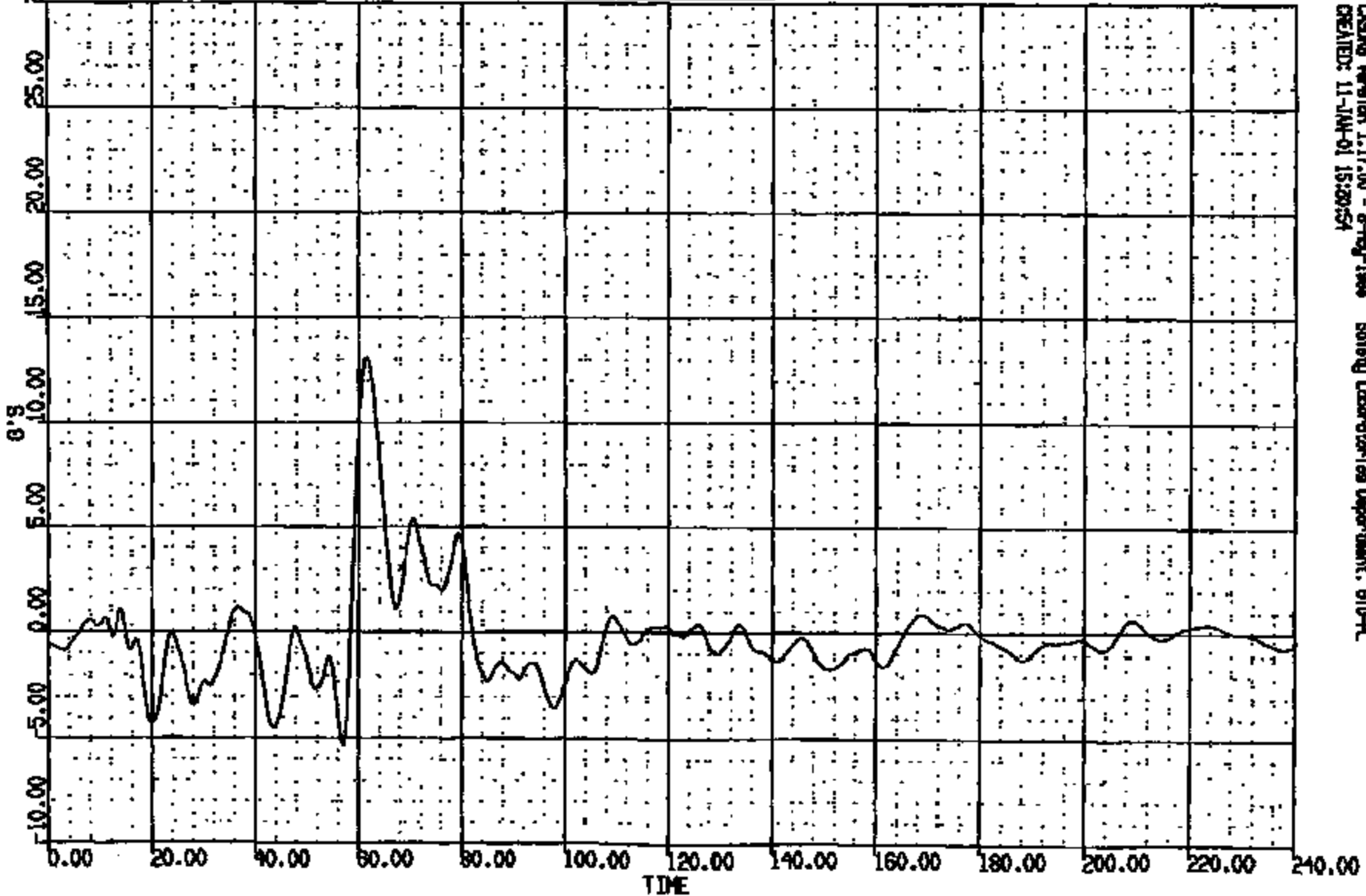


CHASIS Version 1.17.00 - 8-May-1988 Safety Laboratories Department, 610-PL
CREATED: 11-JAN-01 15:25:30

CRTS 0012068

01 R: 12068 TO: TC1854 DATE: 00112 15:25:54
2000 D-188

(38) CR12068T LADDER @ A-PILLAR LAT 60N
MAX = 13.06 at 61.68 MS MIN = -5.344 at 56.96 MS **AXIS 1**

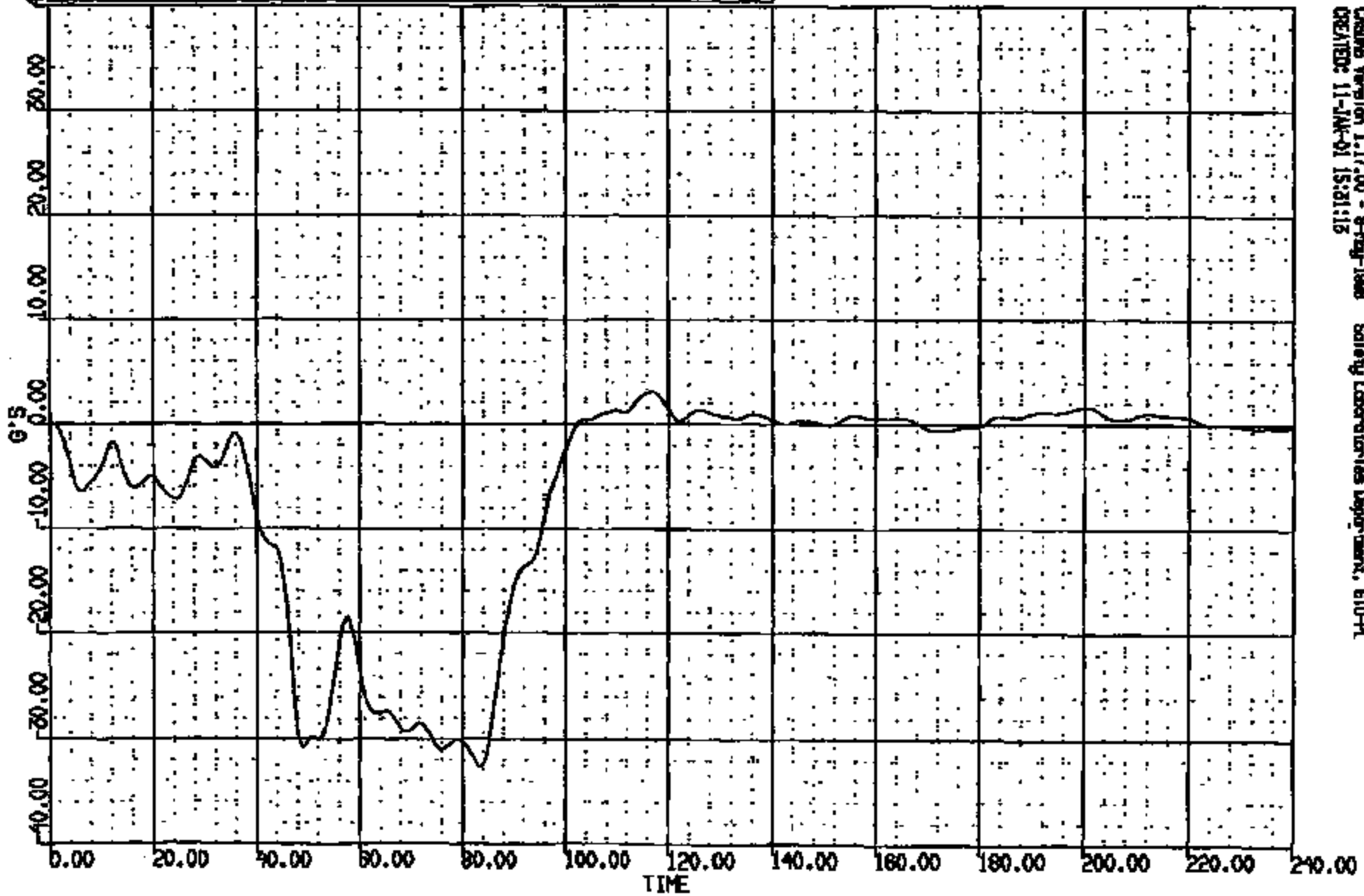


CRSNG Version 1.17.00 - 8-Aug-1998 Safety Laboratories Department, 670-PL
CREATED: 11-JAN-01 15:25:54

CRTS 0012068

CR R: 12088 TC: TC1824 DATE: 001118 15:25:54
2000 D-188

(35) CR12088 LADDER @ A-PILLAR LONG GON
MAX = 3.491 at 117.0 MS MIN = -32.54 at 83.41 MS **AXIS 1**



CASMS Version 1.17.00 - 8-Aug-1999 Safety Laboratories Department, 610-PI
CREATED: 11-JAN-01 15:21:15

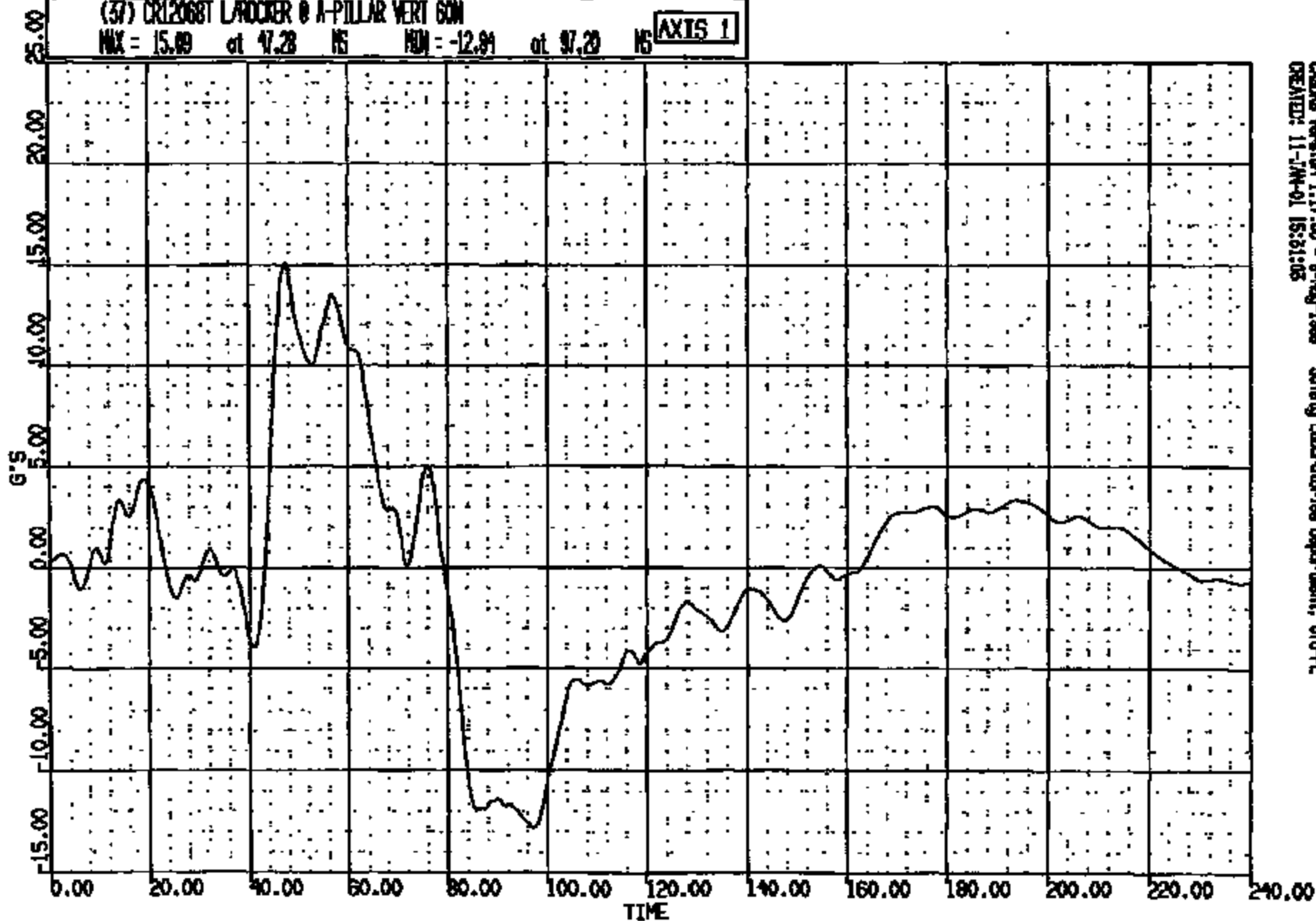
CRTS 0012068

07 R: 12068 TO: TC1834 DATE: 001111 15:23:34
W000 D-189

(37) CR12068T LADDER @ A-PILLAR VERT GDM

MAX = 15.49 at 47.28 NS MIN = -12.91 at 97.20 NS

AXIS 1



CRSIS Version 1.17.00 - 8-May-1999 Safety Laboratory Department, 910-PL
CREATED: 11-JAN-01 15:31:05

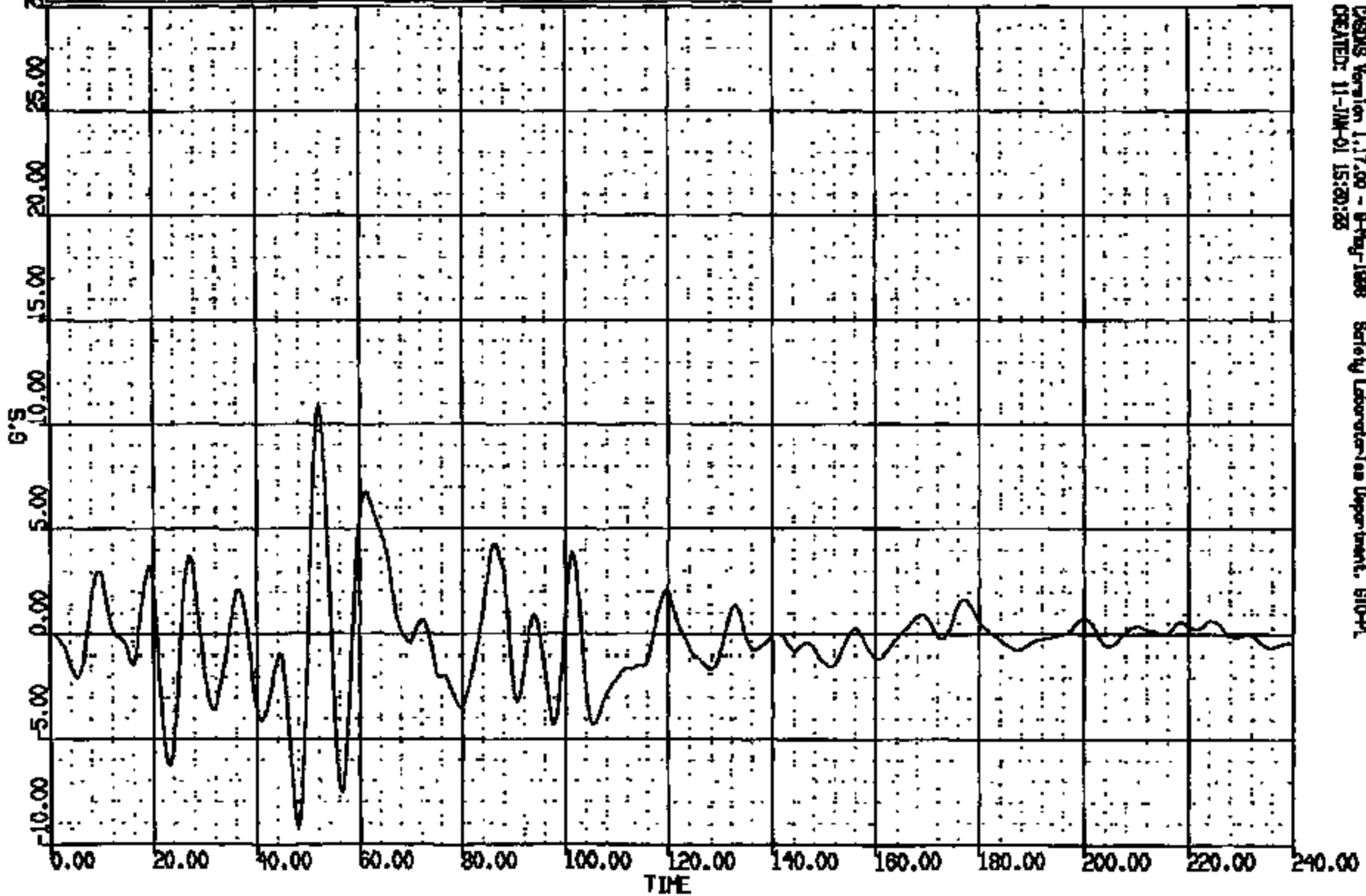
CRIS 0012068

CRK R: 12068 TD: TC1884 DATE: 001112 15:25:34
2000 D-188

(41) CR12068T L/NOCKER @ B-PILLAR LAT 60M

MAX = 10.04 at 52.00 NG MIN = -9.230 at 47.02 NG

AXIS 1



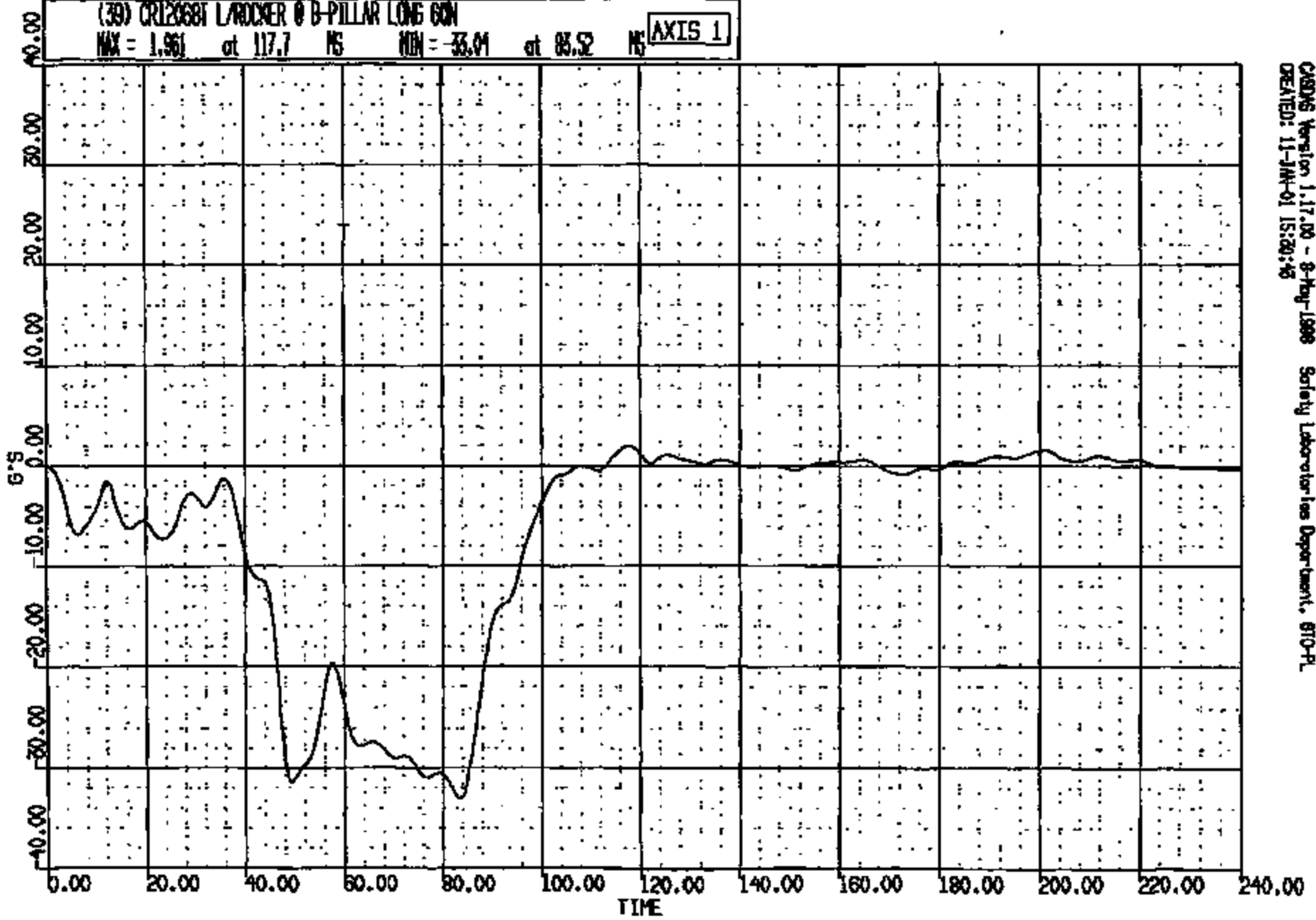
CASDS Version 1.17.00 - 8-Aug-1998 Safety Laboratories Department, SIO-PL
CREATED: 11-JUN-01 15:30:26

CRIS 0012068

CR R= 12068 TO: TC1854 DATE: 001114 15:25:54
2000 D-188

(39) CR120681 L/ROCKER @ B-PILLAR LONG 60N

MAX = 1.961 at 117.7 MS MIN = -33.01 at 83.52 MS AXIS 1

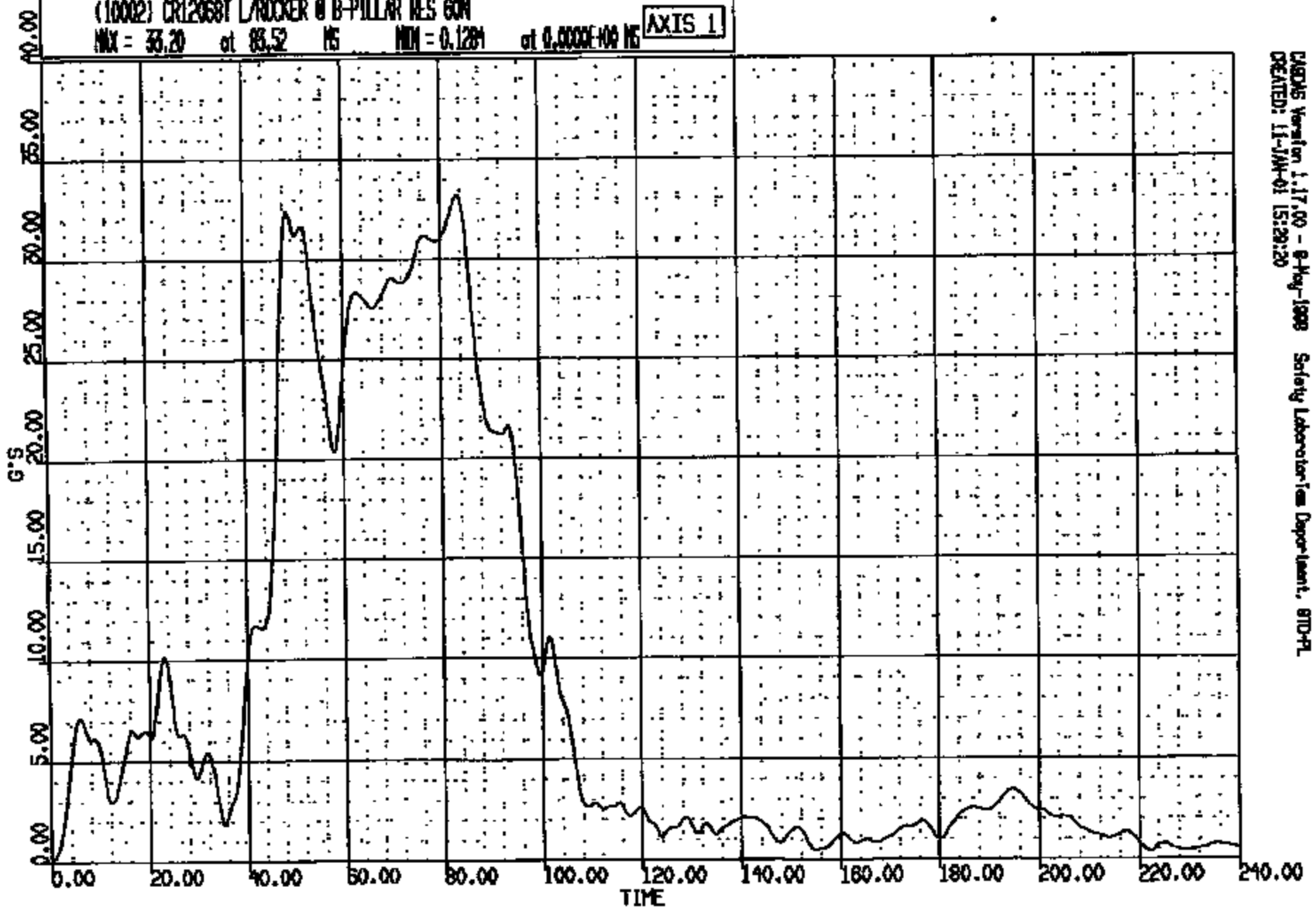


CADDS Version 1.17.00 - 8-May-1998 Safety Laboratories Department, 610-PL
CREATED: 11-JAN-01 15:20:42

CRTS 0012068

CR R: 12068 TO: TC1834 DATE: 001112 15:25:54
2000 D-195

(10002) CR12068T L/ROCKER @ B-PILLAR RES 60N
MAX = 33.20 at 83.52 MS MIN = 0.1284 at 0.0000E+00 MS **AXIS 1**

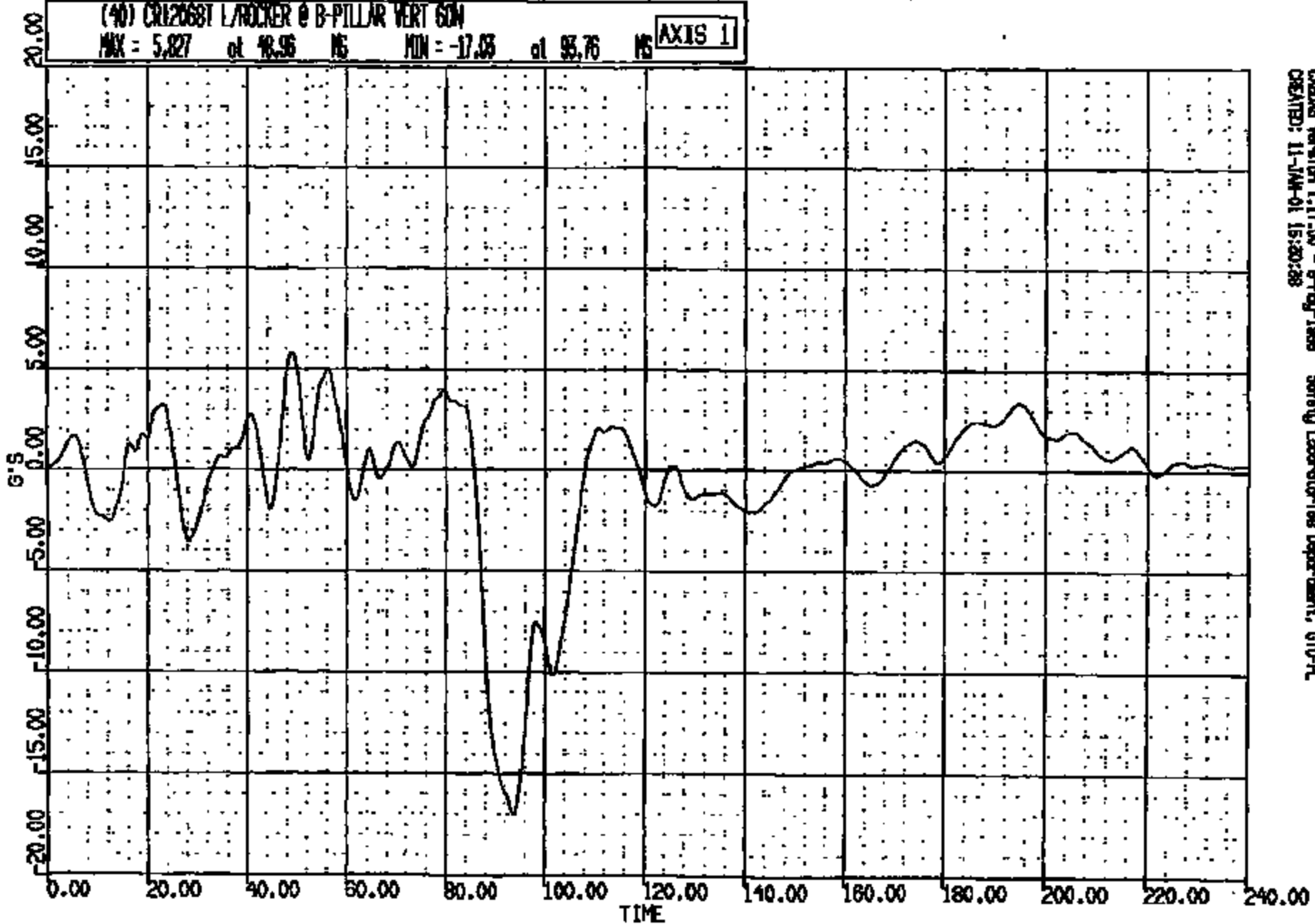


CADDS Version 1.17.00 - 8-May-1999 Safety Laboratories Department, STD-FL
CREATED: 11-JAN-01 15:29:20

CRTS 0012068

07 R: 12068 TO: TC1854 DATE: 00111 15:25:54
2000 D-188

(40) CR12068T L/ROCKER @ B-PILLAR VERT GDM
MAX = 5.827 at 48.96 MS MIN = -17.05 at 93.76 MS **AXIS 1**

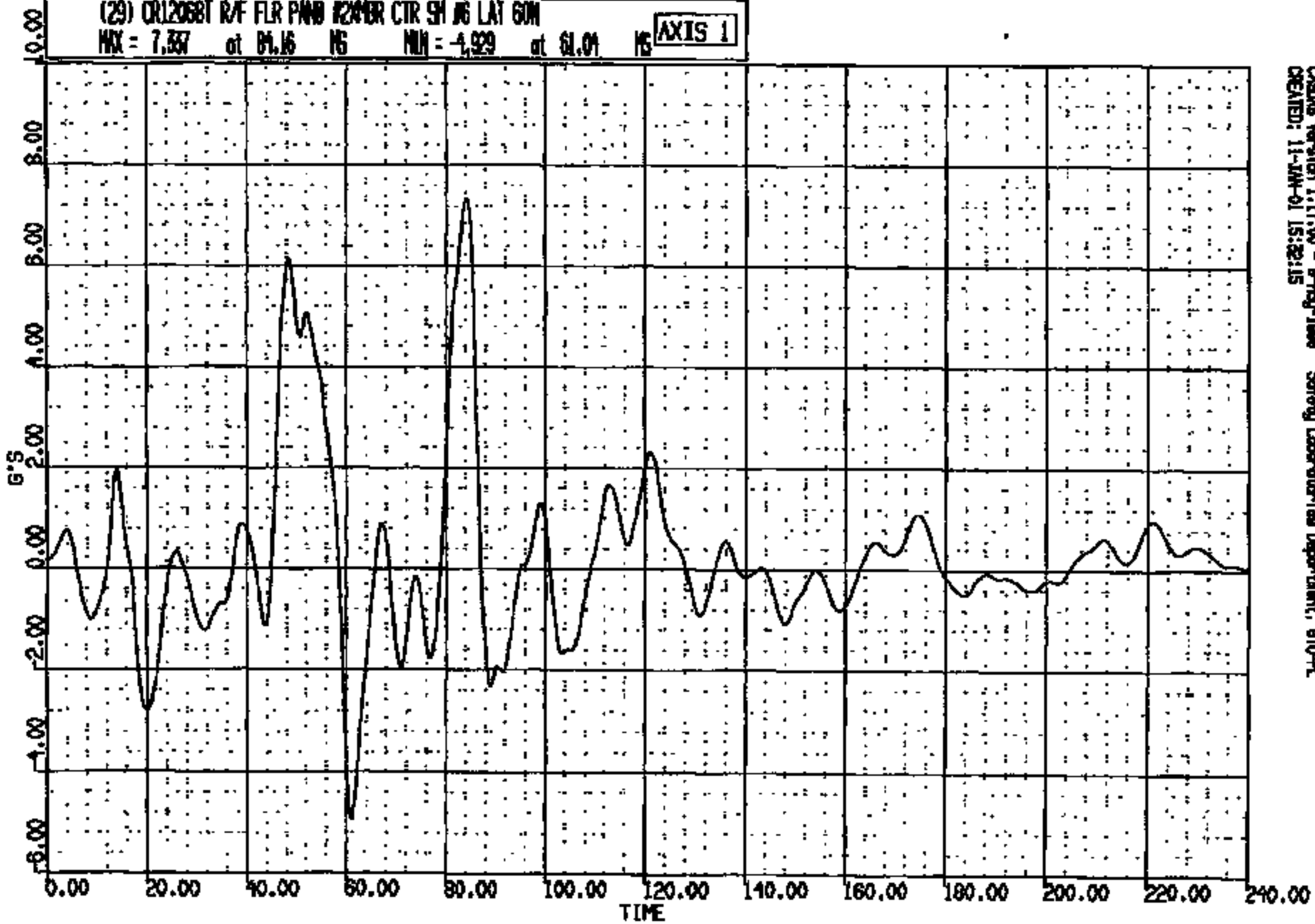


CASDS Version 1.17.00 - 9-Aug-1988 Safety Laboratories Department, GTD-R
CREATED: 11-JAN-01 15:20:28

CRTS 0012068

CR R: 12068 TC: TC1854 DATE: 001112 15:25:54
2000 D-188

(29) CR12068T R/F FLR PWB #24MR CIR SH J6 LAT GUN
MAX = 7.357 at 61.16 NS MIN = -4.929 at 61.01 NS **AXIS 1**



CASUS Version 1.17.00 - 8-May-1999 Safety Laboratories Department, STD-PL
CREATED: 11-JAN-01 15:25:15

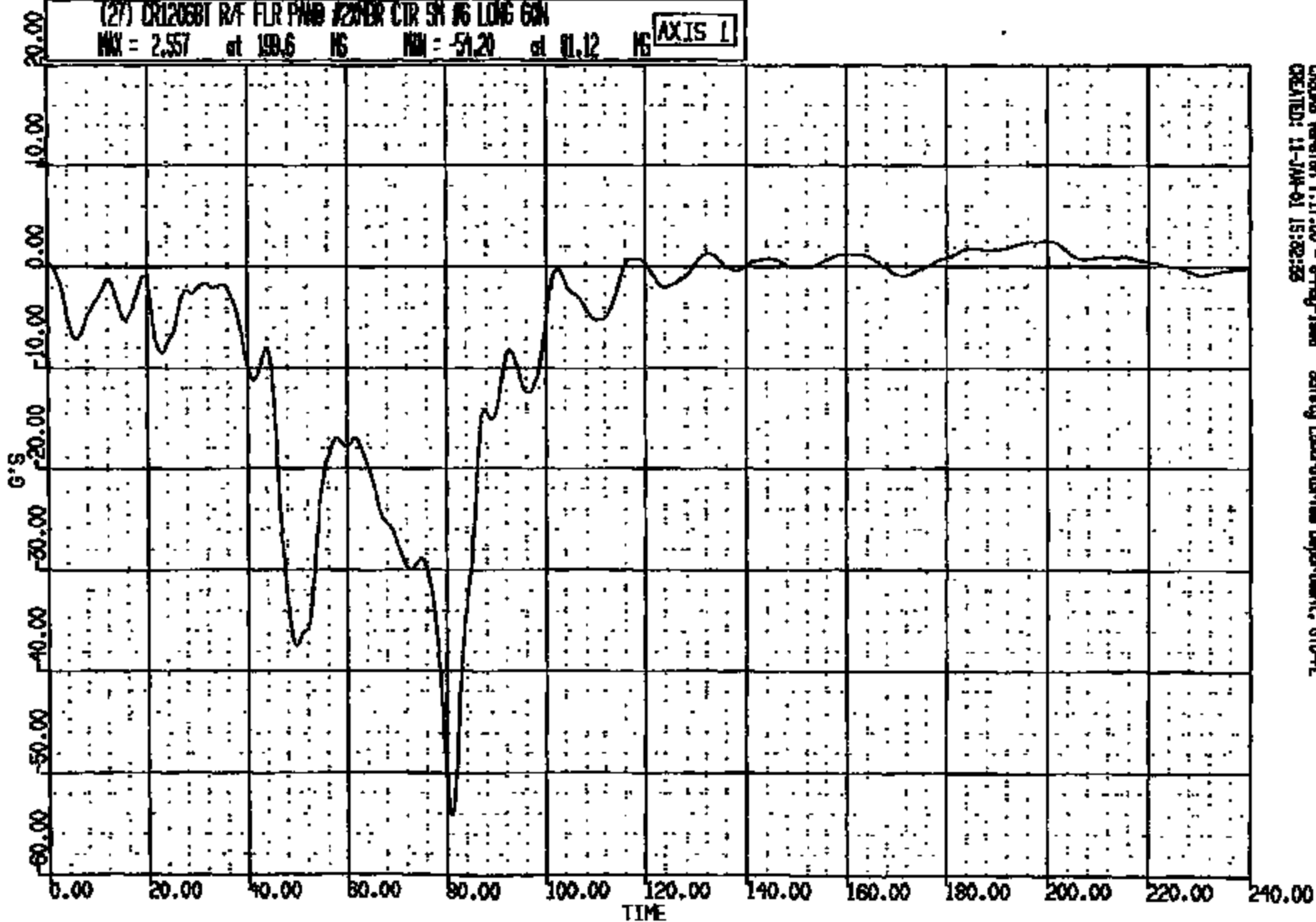
CRITS 0012068

CH R: 12068 TO: TC1854 DATE: 00111- 15:25:24
2000 D-188

(27) CR12068T R/F FLR PWD /ZNER CTR SH 16 LONG 60N

MAX = 2.557 at 199.6 HS MIN = -51.20 at 01.12 HS

AXIS 1



CASINS Version 1.17.00 - 8-May-1998 Safety Laboratories Department, OTD-2
CREATED: 11-JAN-01 15:25:25

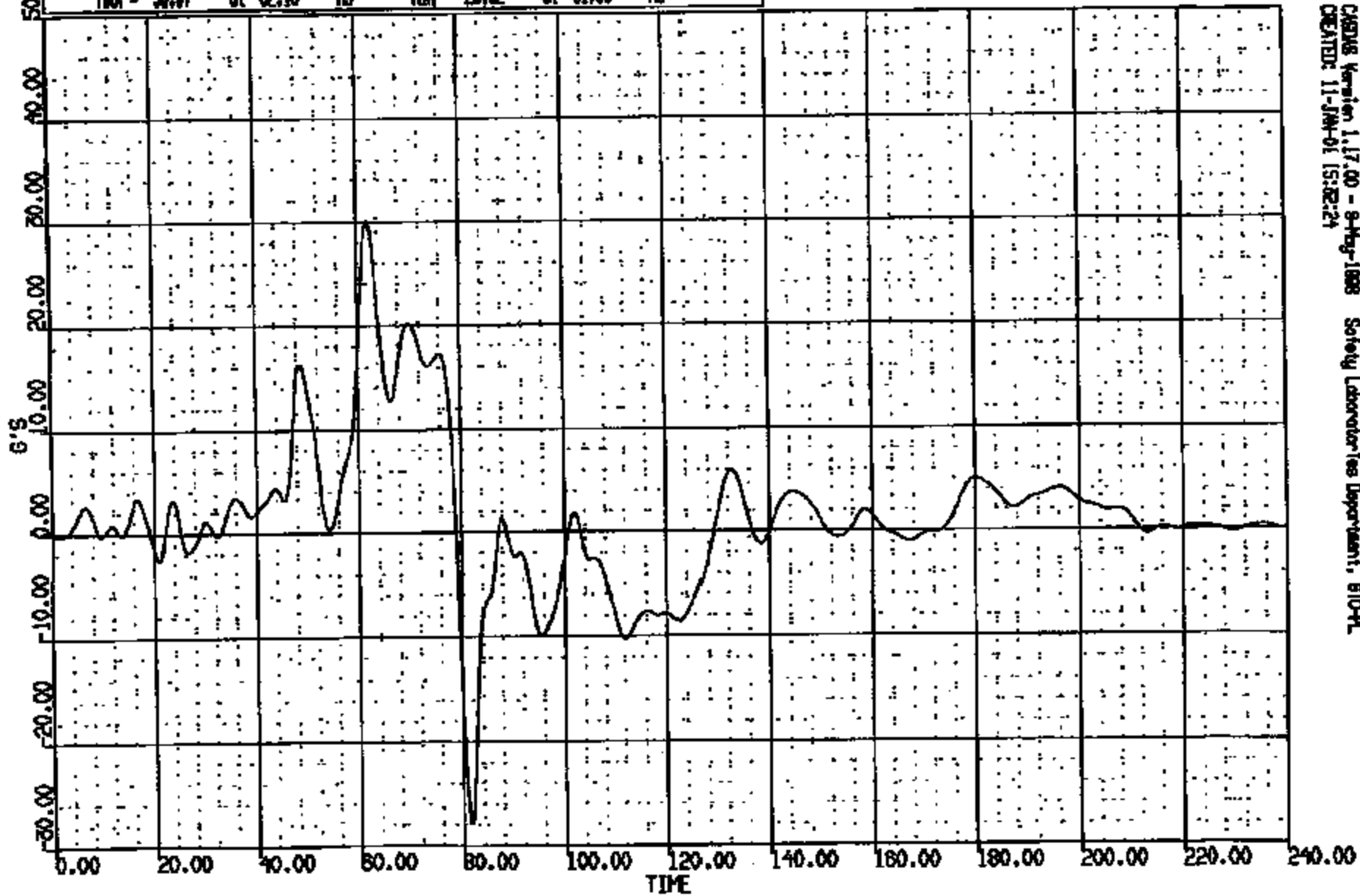
CRTS 0012068

CH R: 12068 TO: TC1854 DATE: 001111 15:25:24
2000 D-188

(28) CR12068T R/F FLR PAN# 12068 CTR SH NS VERT 60N

MAX = 30.97 at 62.16 NS MIN = -28.02 at 81.60 NS

AXIS 1

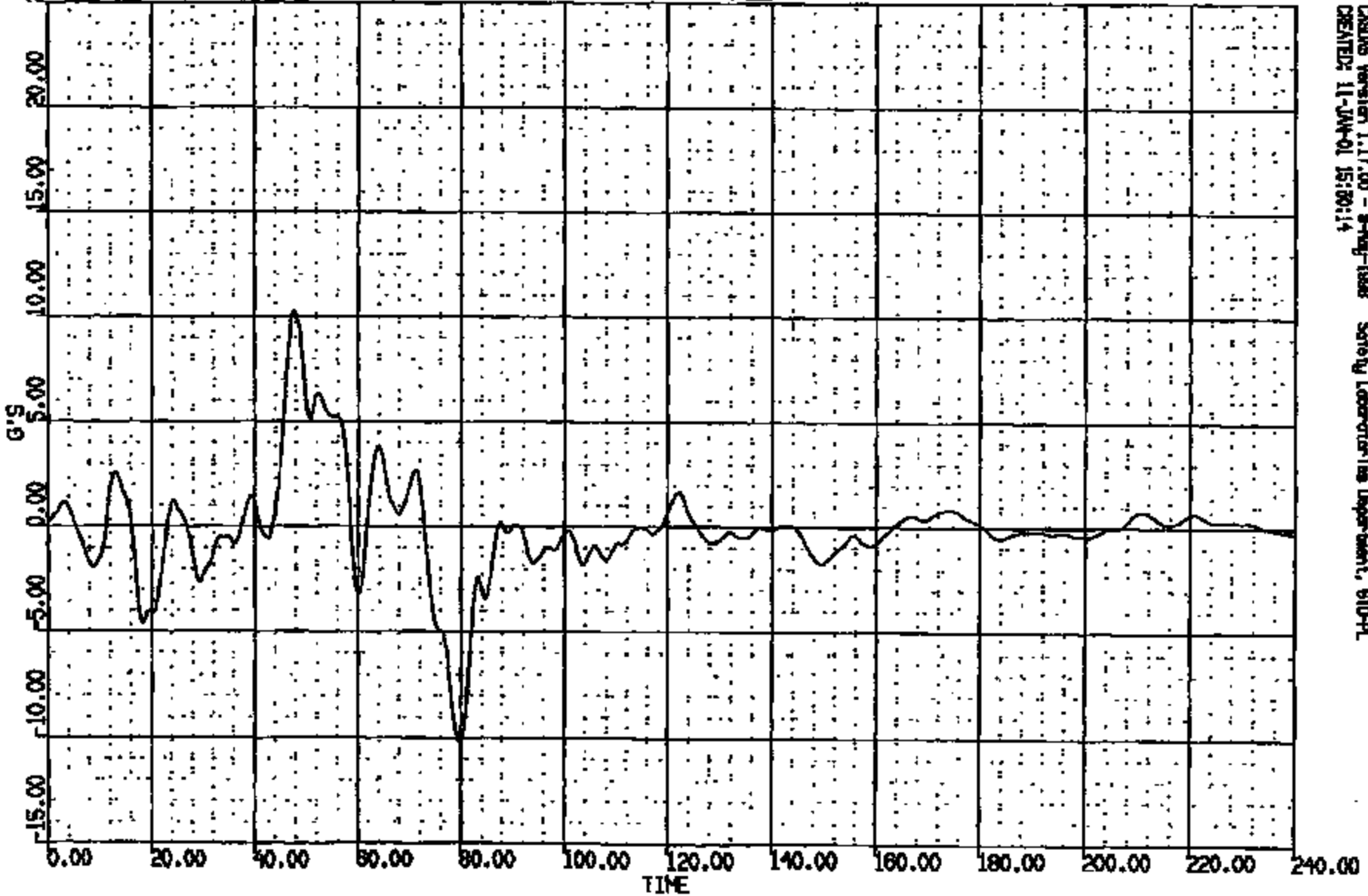


CRSIS Version 1.17.00 - 9-May-1988 Safety Laboratories Department, STO-PL
CREATED: 11-JAN-01 15:25:24

CRIS 0012068

OK R: 12068 TO: TC1884 DATE: 001112 13:25:54
2000 0-198

(44) CR12068T R/WOOLNER @ A-PILLAR LAT 60W
MAX = 10.26 at 47.88 NS MIN = -10.18 at 79.91 NS **AXIS 1**

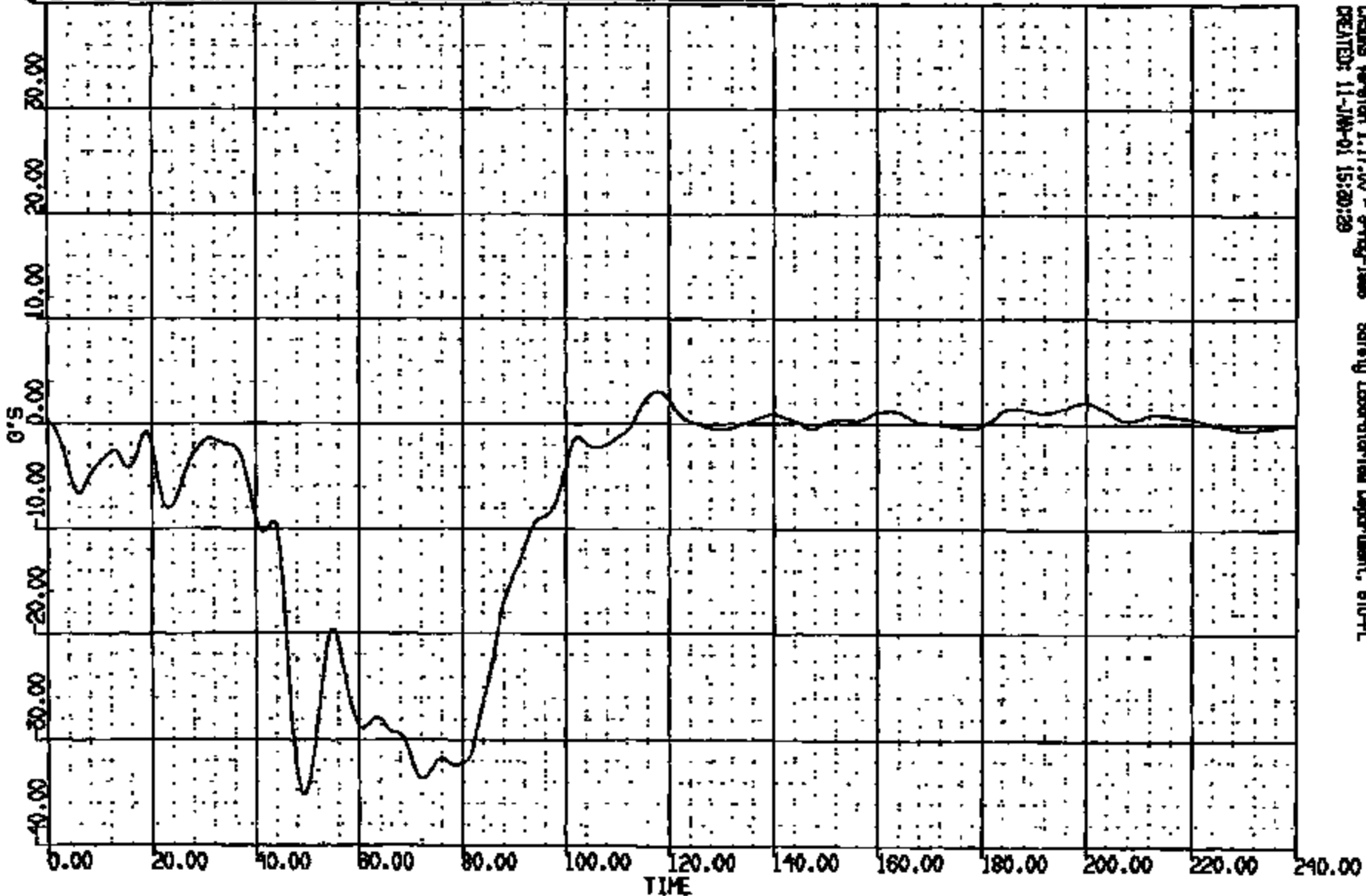


CRTS Version 1.17.00 - 8-May-1998 Safety Laboratories Department, STD-PL
CREATED: 11-JAN-01 15:20:14

CRTS 0012068

CR R: 12068 TO: TC1854 DATE: 001112 15:25:37
2000 D-188

(42) CR12068T RACKNER @ A-PILLAR LONG GON
MAX = 3.052 at 117.9 MS MIN = -35.18 at 49.36 MS **AXIS 1**

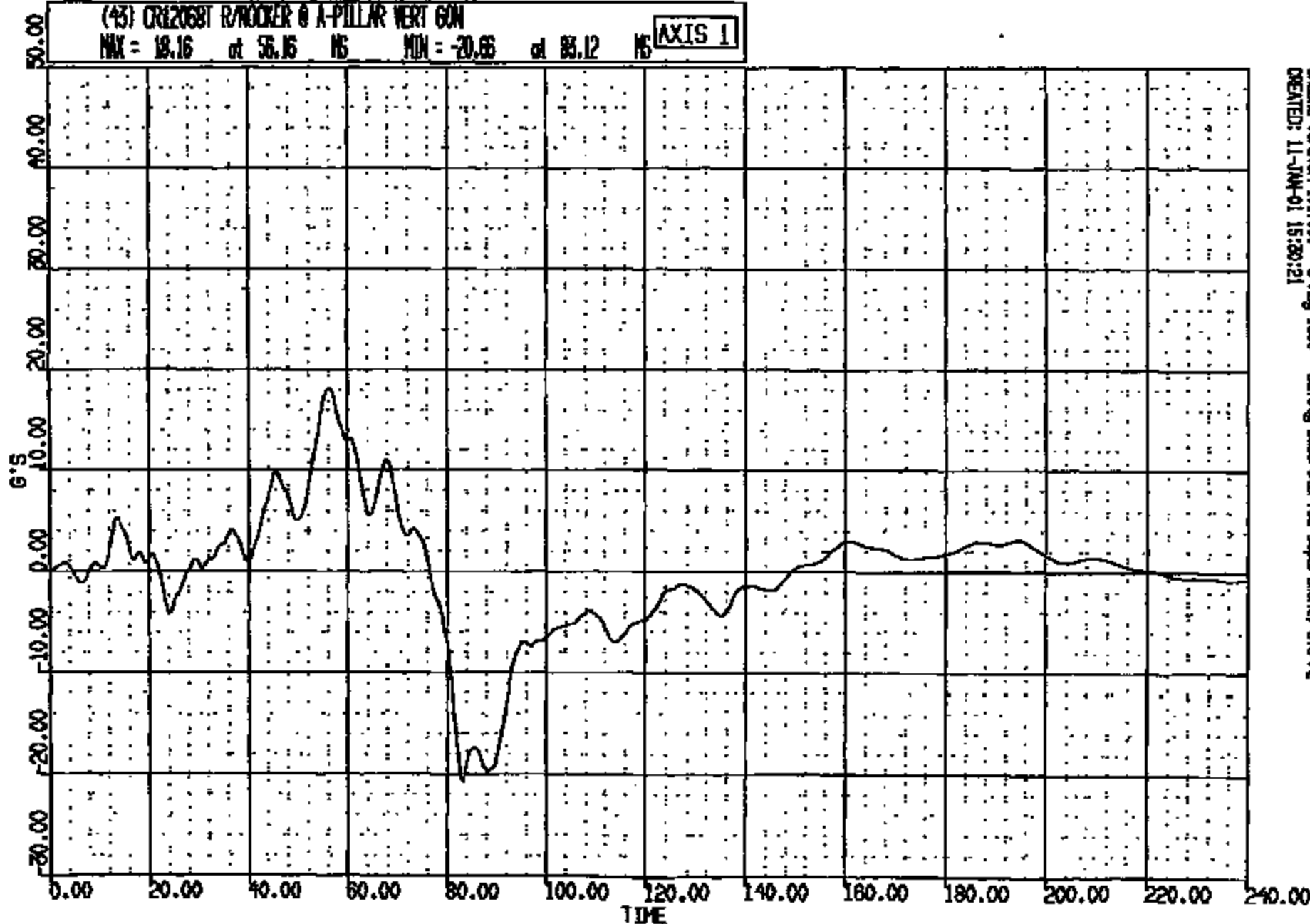


CASINS Version 1.17.00 - 9-May-1998 Safety Laboratories Department, 810-PL
CREATED: 11-JUN-01 15:20:29

CRTS 0012068

CY R: 12068 TC: TC1854 DATE: 001114 13:26:54
2000 D-198

(43) CR12068T R/ROCKER @ A-PILLAR VERT GON
MAX = 18.16 at 56.16 MS MIN = -20.66 at 83.12 MS **AXIS 1**

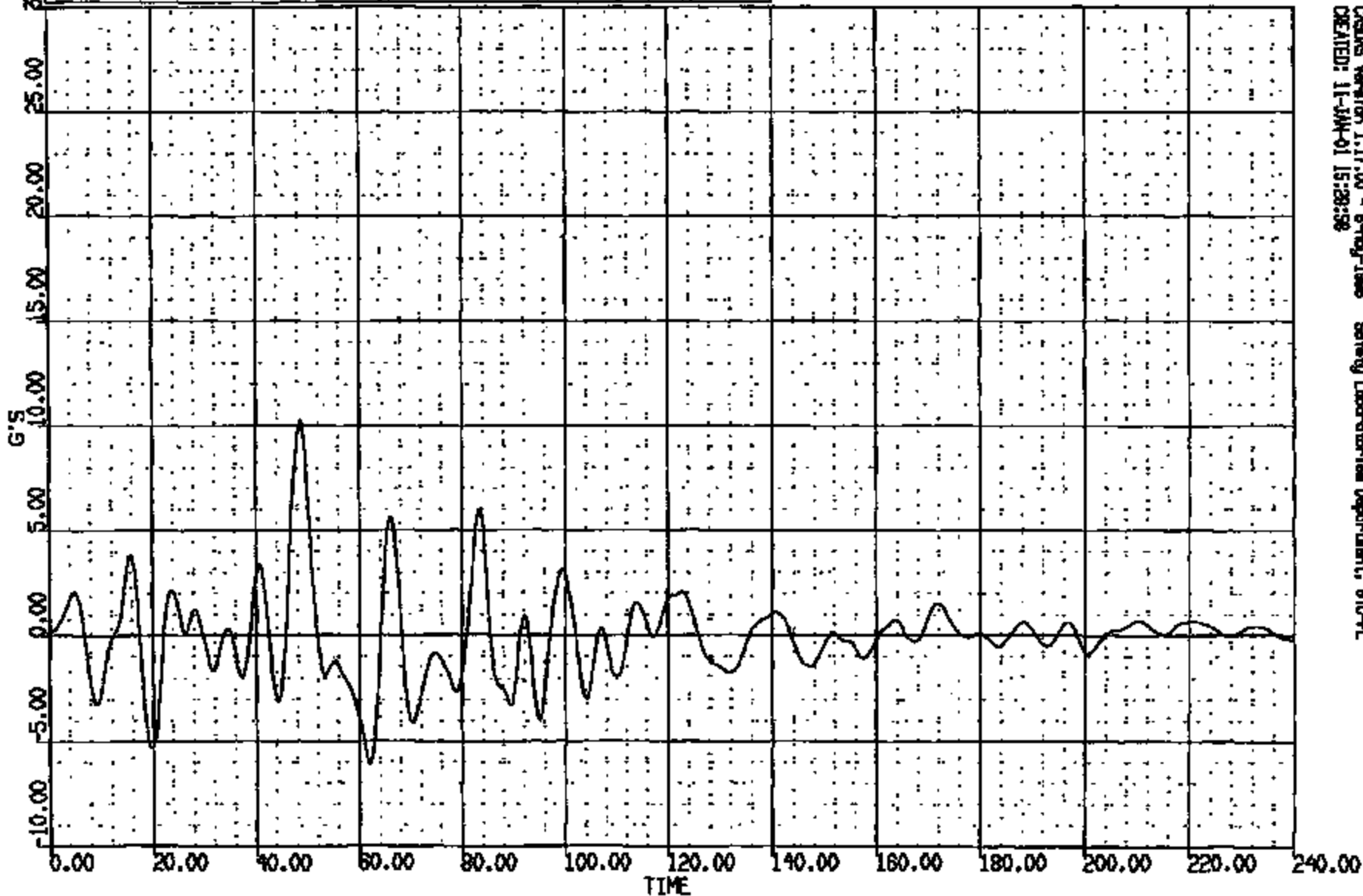


CASUS Version 1.17.00 - 8-Aug-1998 Safety Laboratory/Am Department, 610-PL
CREATED: 11-JUN-01 15:30:21

CRTS 0012068

CR R: 12068 TO: TC1884 DATE: 00112 15:25:34
2000 D-188

(47) CR12068T R/ROCKER @ B-PILLAR LAT 60N
MAX = 10.21 at 48.64 NS MIN = -6.115 at 62.08 NS **AXIS 1**

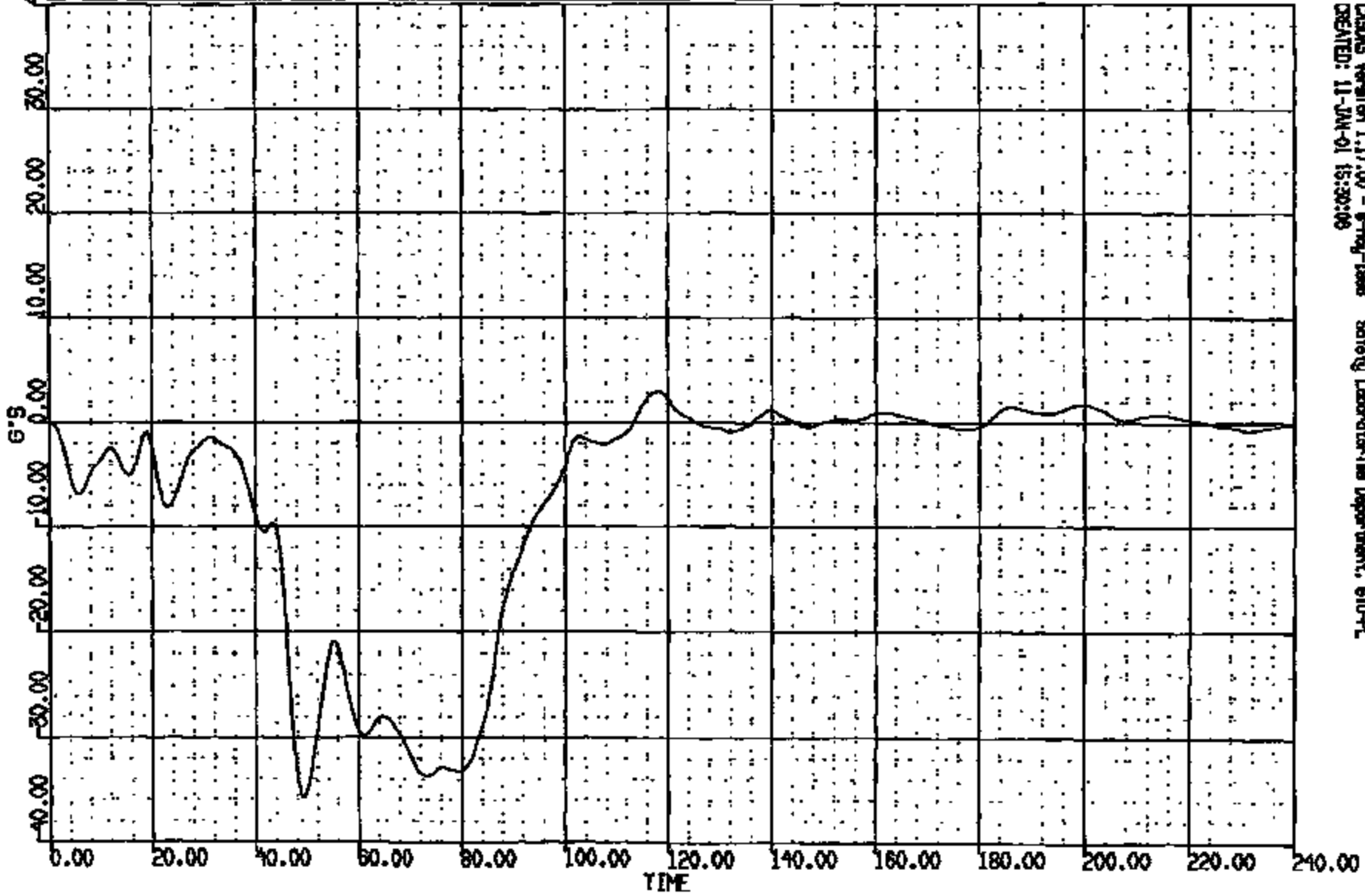


CR1884 Version 1.17.00 - 8-May-1998 Safety Laboratory Department, 610-91
CREATED: 11-JAN-01 15:28:38

CR1884 0012068

CR R: 12088 TO: TC1834 DATE: 001112 15:25:34
2000 D-100

(45) CR12068T R/ROCKER @ B-PILLAR LONG 60H
MAX = 2.950 at 118.2 MS MIN = -35.81 at 49.28 MS **AXIS 1**



CASAS Version 1.17.00 - 8-May-1998 Safety Laboratories Department, 610-PL
CREATED: 11-JAN-01 15:30:00

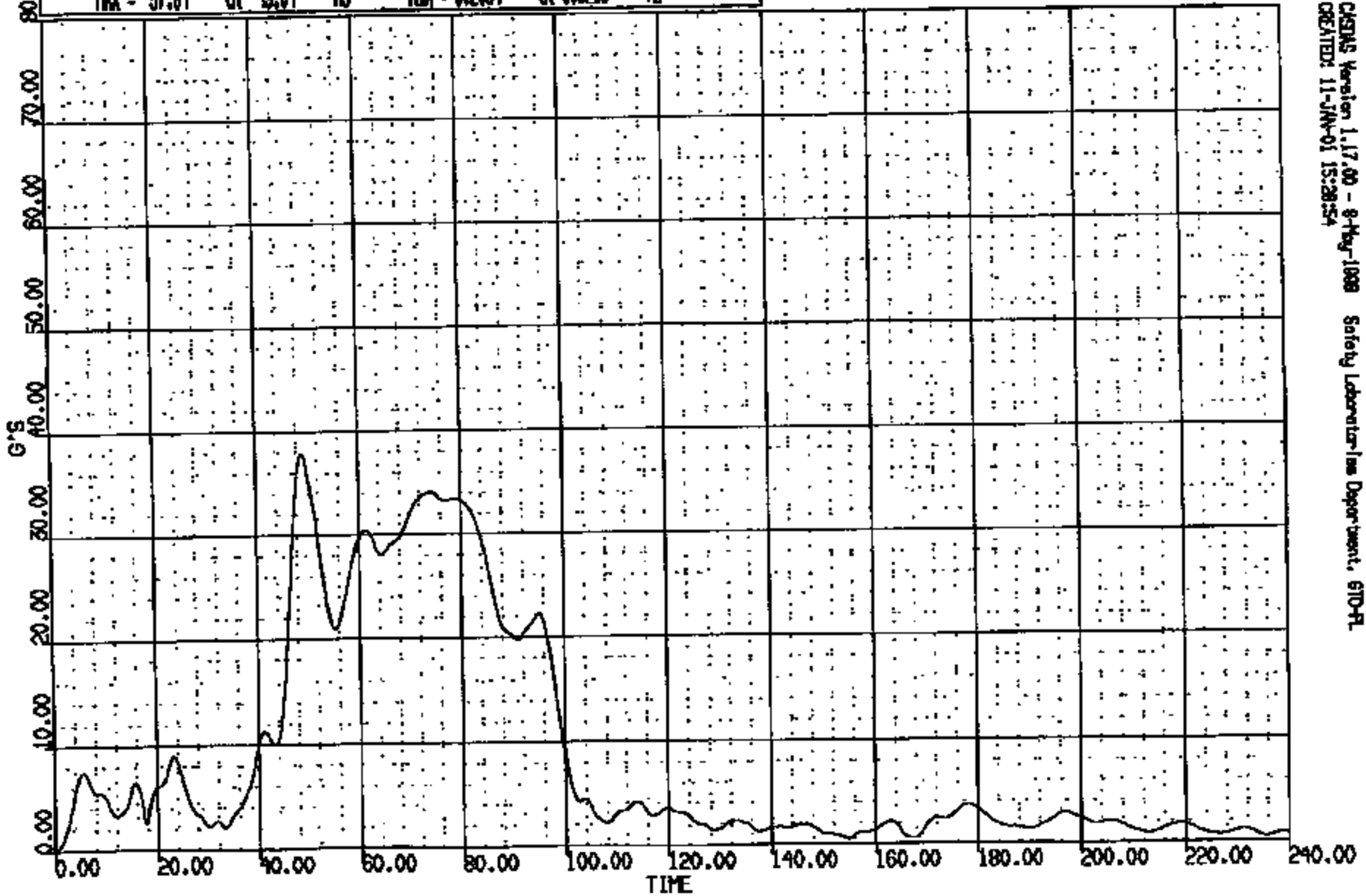
CRIS 0012068

CP #: 12068 TO: TC1834 DATE: 001112 13:25:54
2000 D-188

(10081) CR12068T R/ROCKER @ B-PILLAR RES CON

MAX = 37.04 at 49.04 MS MIN = 0.2034 at 0.3200 MS

AXIS 1

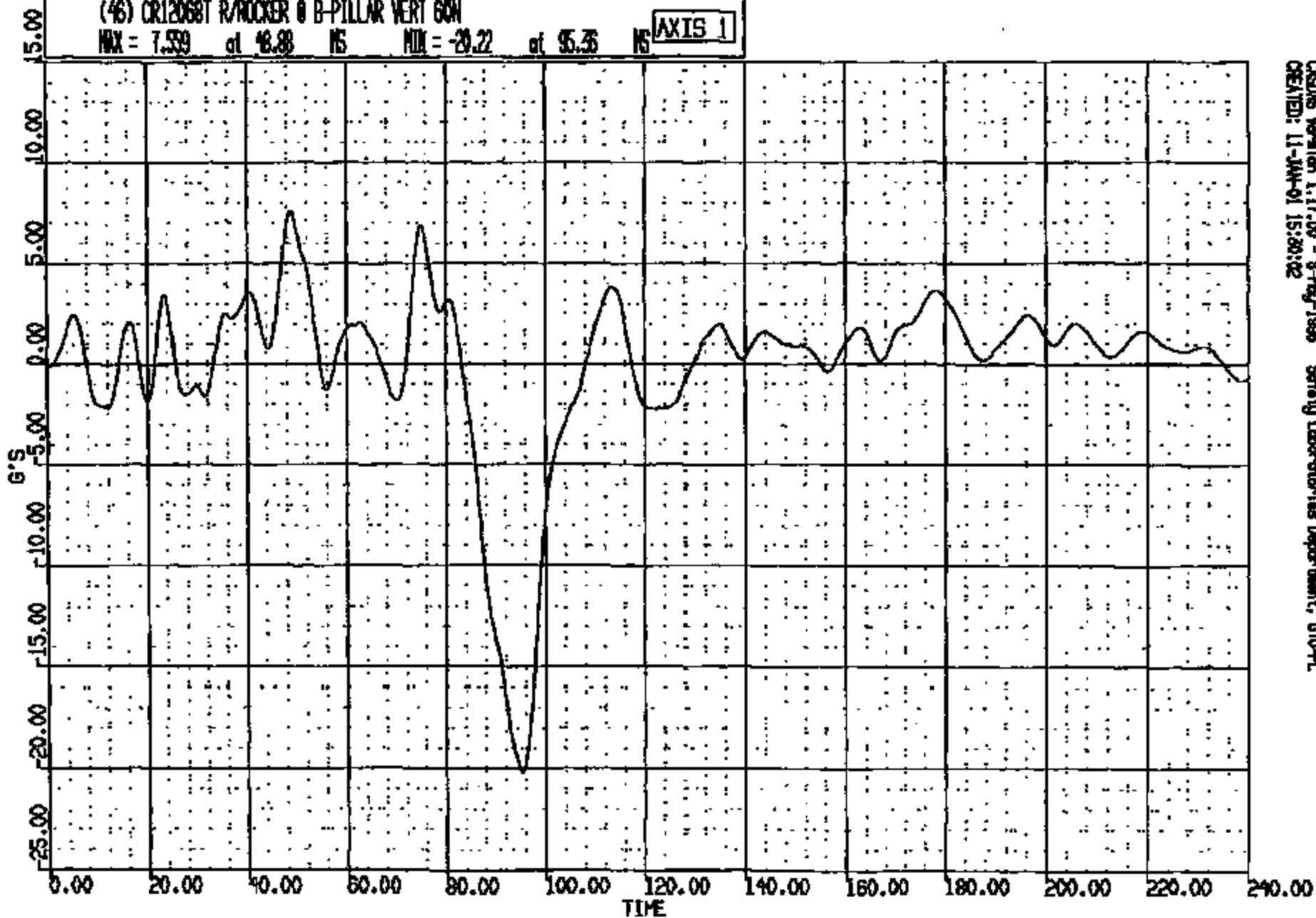


CHSAS Version 1.17.00 - 8-May-1998 Safety Laboratory/Ins Department, STD-FL
CREATED: 11-JAN-01 15:28:54

CRIS 0012068

CR R: 12068 TO: TC1834 DATE: 00111L 18:25:34
8000 D-188

(46) CR12068T R/ROCKER @ B-PILLAR VERT 60W
MAX = 7.539 at 48.88 NS MIN = -20.22 at 95.35 NS **AXIS 1**



CASINS Version 1.17.00 - 8-May-1998 Safety Laboratories Department, GTO-PL
CREATED: 11-JAN-01 15:28:32

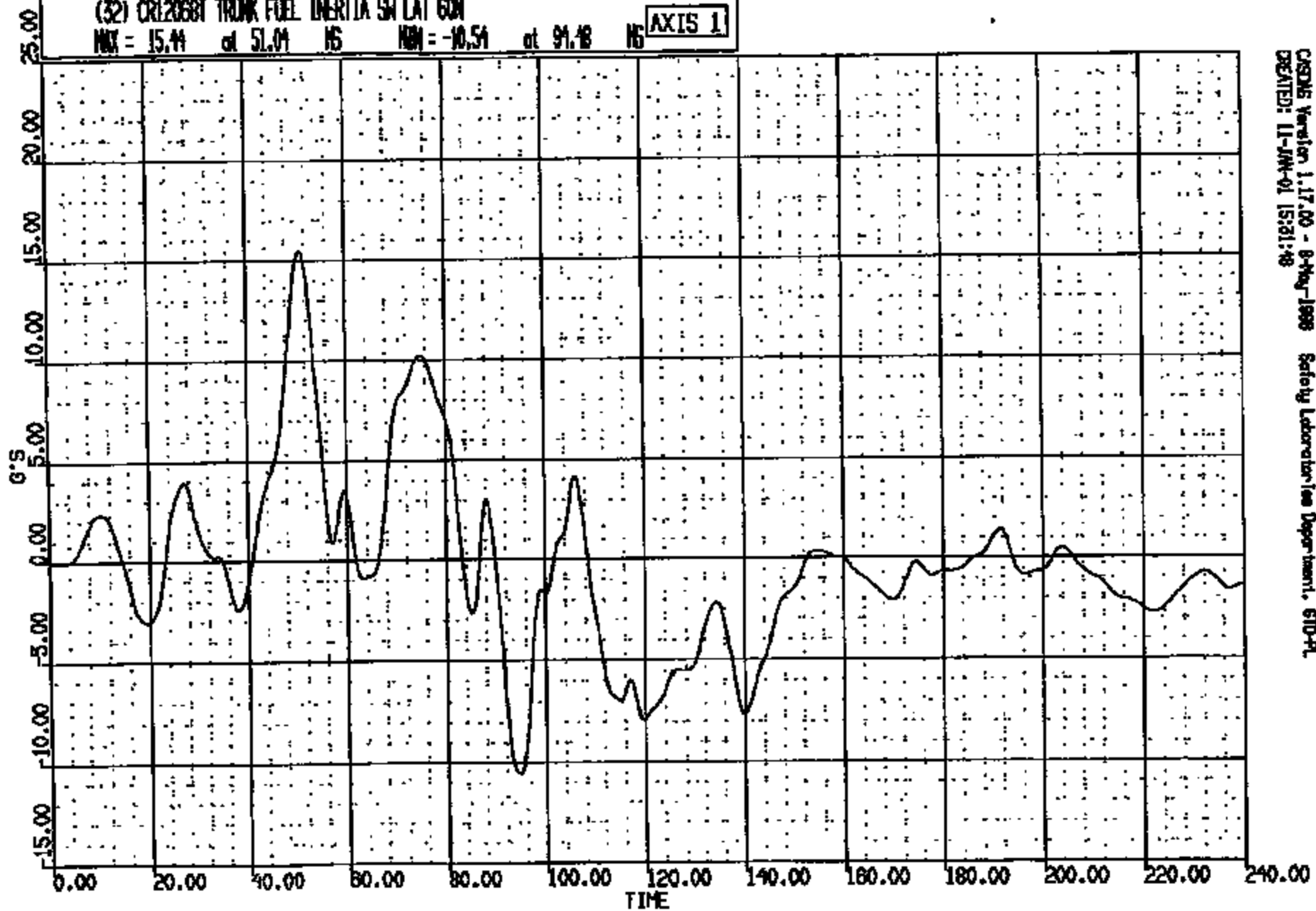
CRTS 0012068

CRK R: 12088 TO: TC1884 DATE: 001114 13:25:34
2000 D-188

(32) CR12088T TRUNK FUEL INERTIA SW LAT 60N

MAX = 15.41 at 51.04 NS MIN = -10.54 at 91.48 NS

AXIS 1



CRIS 0012068

CRSIS Version 1.17.00 - 8-May-1998 Safety Laboratories Department, 610-PL
CREATED: 11-JAN-01 15:31:48

CR R: 12068 TO: TC1834 DATE: 00111 13:28:34
2000 D-188

(30) CR12068T TRUNK FUEL INERTIA SN LONG 60N
MAX = 2.478 at 110.6 IS MIN = -3.47 at 42.72 IS **AXIS 1**

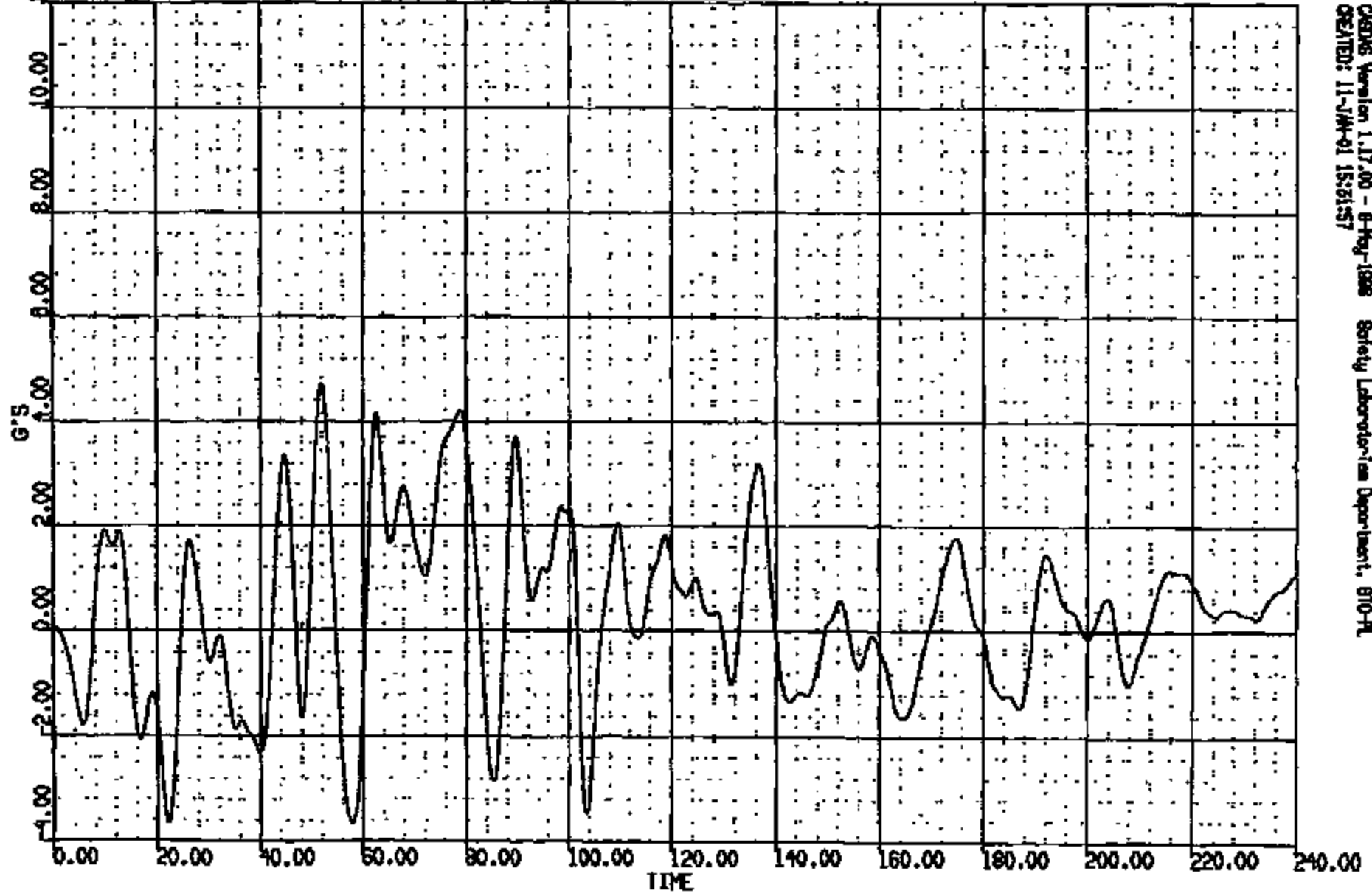


CASDS Version 1.17.00 - 8-May-1998 Safety Laboratories Department, ETO-PL
CREATED: 11-JAN-01 15:28:36

CRIS 0012068

OR R: 12068 TO: TC1854 DATE: 00111 15:25:54
2000 D-189

(3) CR12068T TRUNK FUEL INERTIA SA VERT GON
MAX = 4.721 at 52.00 NS MIN = -3.667 at 57.92 NS **AXIS 1**

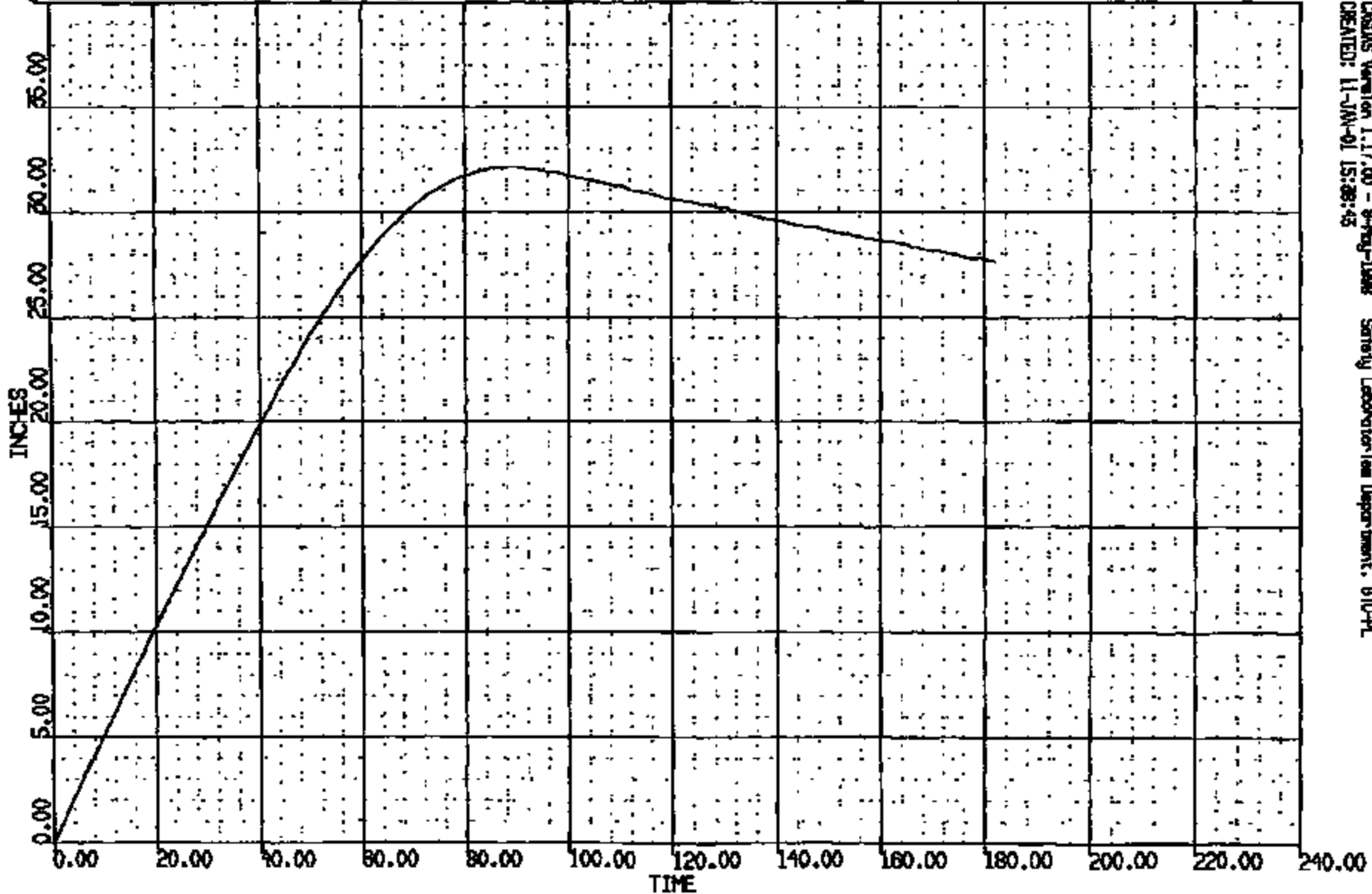


CRSIS Version 1.17.00 - 6-May-1998 Safety Laboratory/Inertial Department, 810-PL
CREATED: 11-JAN-01 15:51:57

CRIS 0012068

CM R: 12068 TO: TC1854 DATE: 001114 18:25:24
2000 D-188

(0) CRCL2068 L RWR AT 0 PLR WRT L END REF LONG DISP
MAX = 32.12 at 88.00 MS MIN = 0.000E+00 at 0.000E+00 MS **AXIS 1**

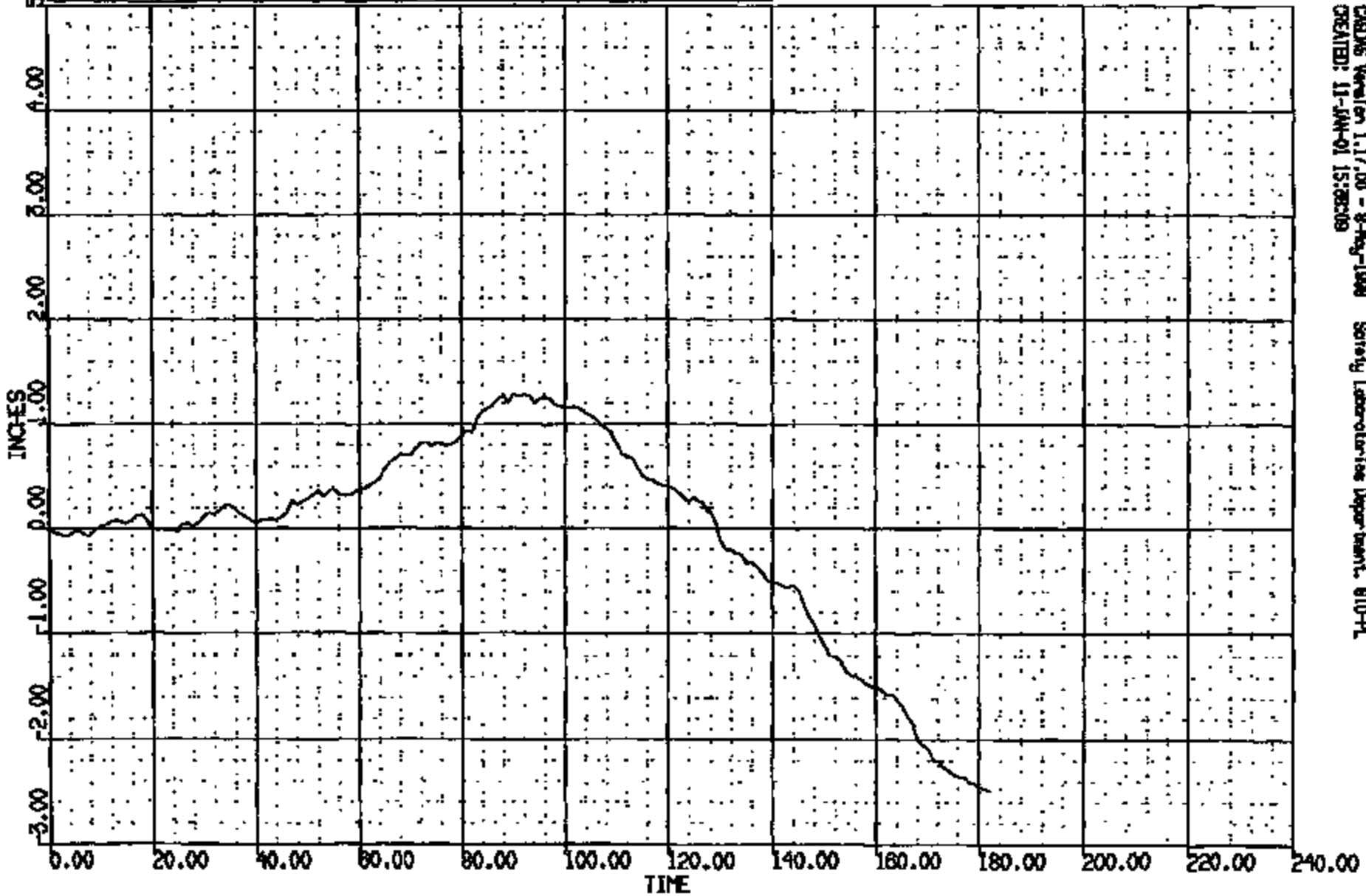


CASDS Version 1.17.00 - 8-May-1998 Safety Laboratory/see Department, BTG-PL
CREATED: 11-JAN-01 15:28:42

CRTS 0012068

BOX #: 12068 TO: TC1834 DATE: 00111 13:26:34
R000 D-188

(0) CRCL2068 L RWR AT B PLR WRT L GND REF VERT DISP
MAX = 1.285 at 90.00 NS MIN = -2.492 at 182.0 NS **AXIS 1**

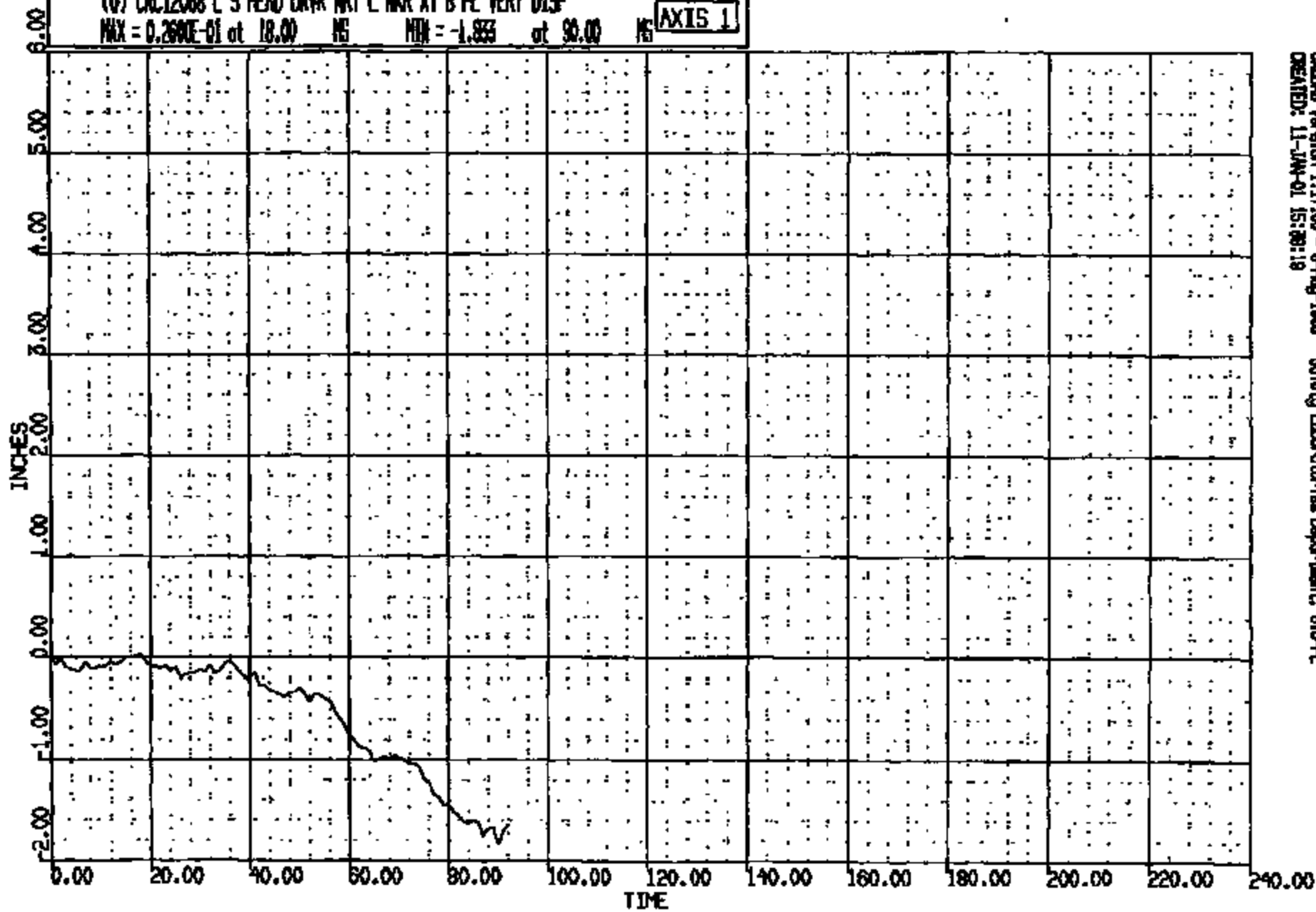


CARDAS Version 1.17.00 - 8-May-1998 Safety Laboratories Department, 810-PL
CREATED: 11-JUN-01 15:28:09

CRTS 0012068

CR R: 12068 TO: TC1834 DATE: 001112 18:25:34
2000 D-188

(0) CR12068 L S HEAD CRNR WRT L NCR AT B PL VERT DISP
MAX = 0.260E-01 at 18.00 MS MIN = -1.833 at 90.00 MS **AXIS 1**



CRSING Version 1.17.00 - 9-May-1998 Safety Laboratories Department, 610-FL
CREATED: 11-JUN-01 15:30:19

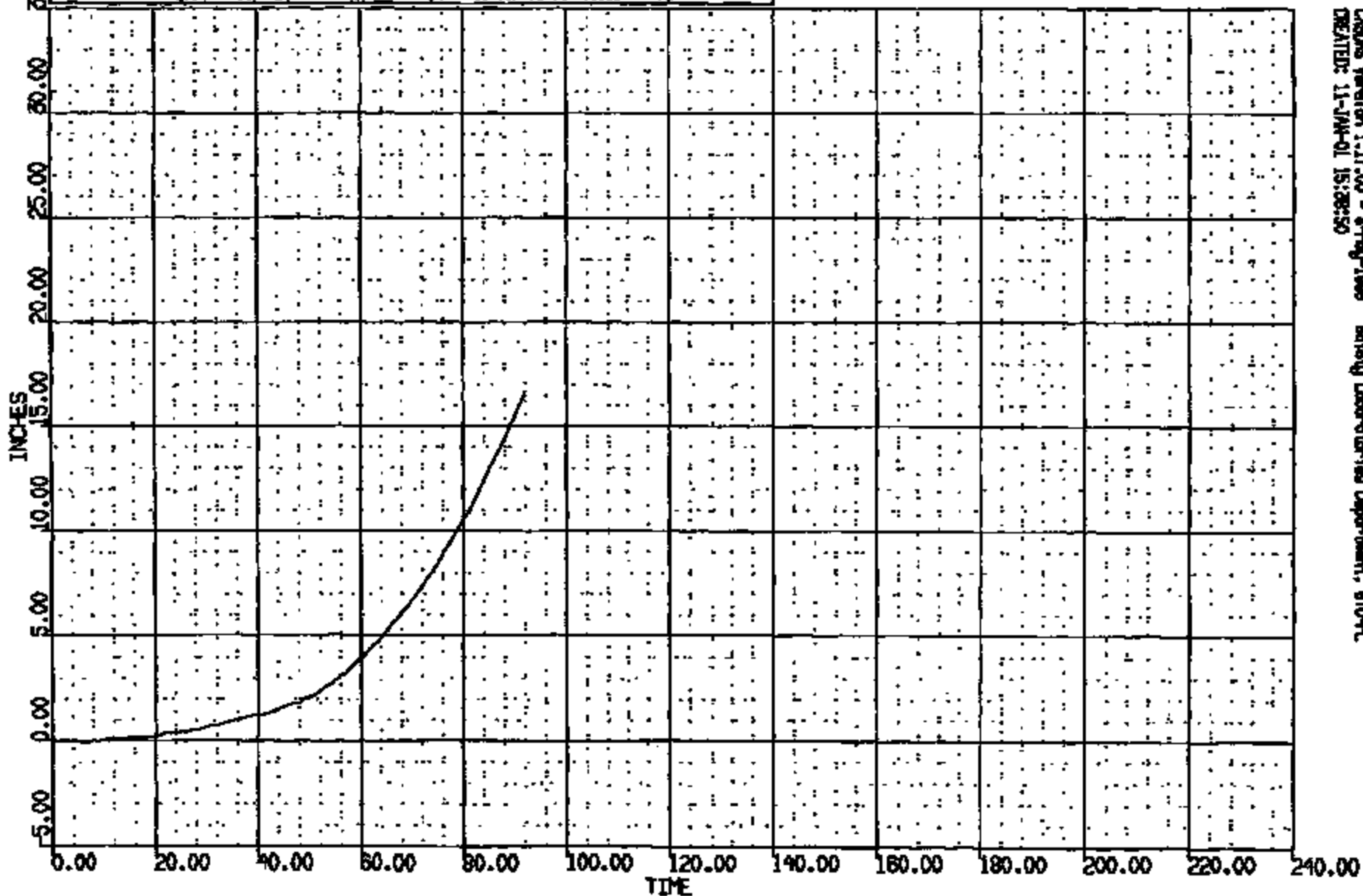
CRIS 0012068

CH R: 12068 TO: TC1884 DATE: 001112 15:26:34
2000 D-188

(0) CRC12068 L S HEAD DRYR WRT L WGR AT B PL LONG DISP

MAX = 16.61 at 92.00 MS MIN = -.0930E-01 at 6.000 MS

AXIS 1

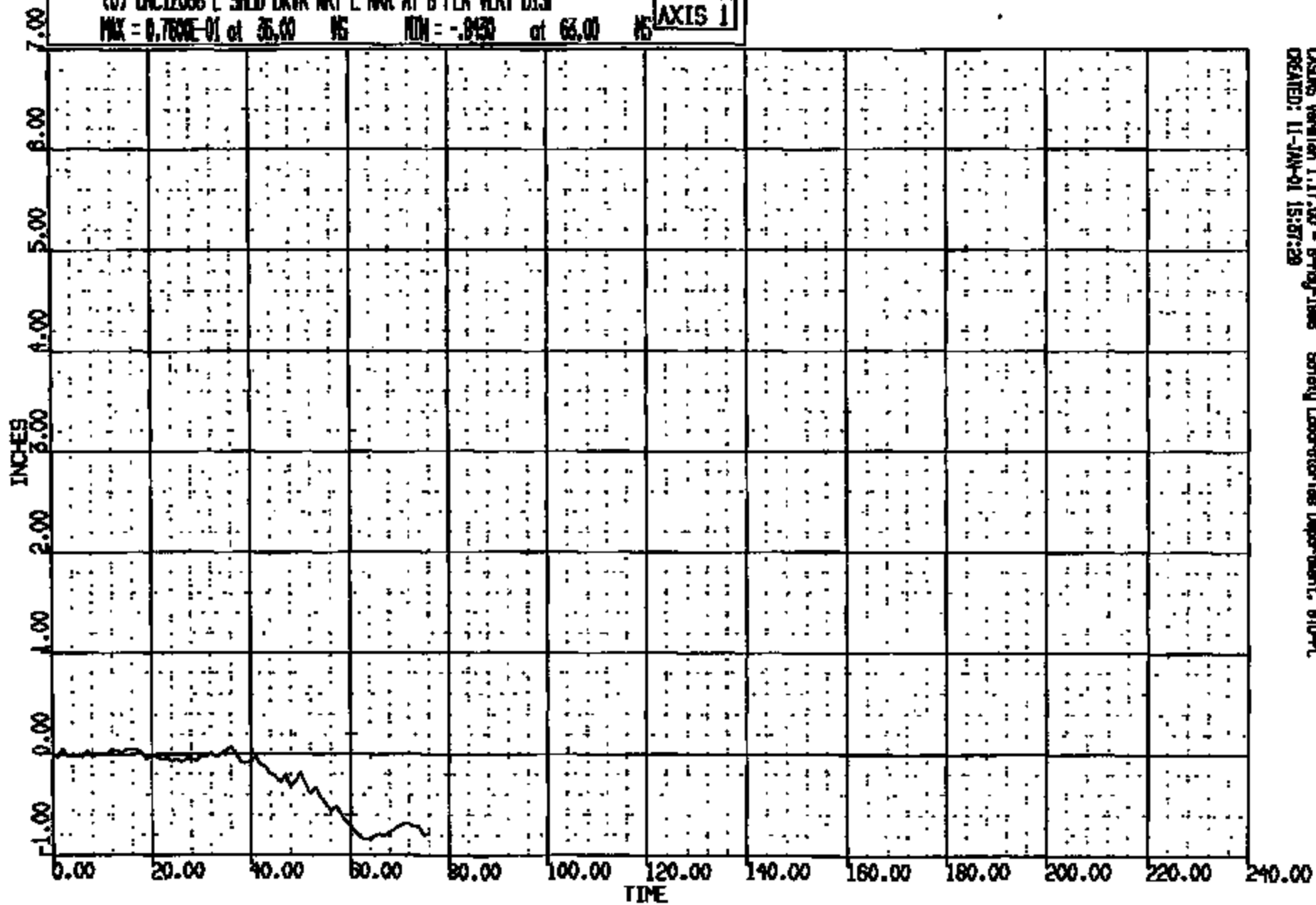


CRC12068 Version 1.17.00 - 8-May-1999 Safety Laboratory Use Department, 610-PL
CREATED: 11-JAN-01 15:26:30

CRTS 0012068

CK R: 12088 TO: TC1854 DATE: 00111 15:25:54
2000 D-188

(5) CRCL2068 L SHLD DRVR WRT L WGR AT B FLR VERT DISP
MAX = 0.7800E-01 at 35.00 MS MIN = -.0430 at 63.00 MS **AXIS 1**

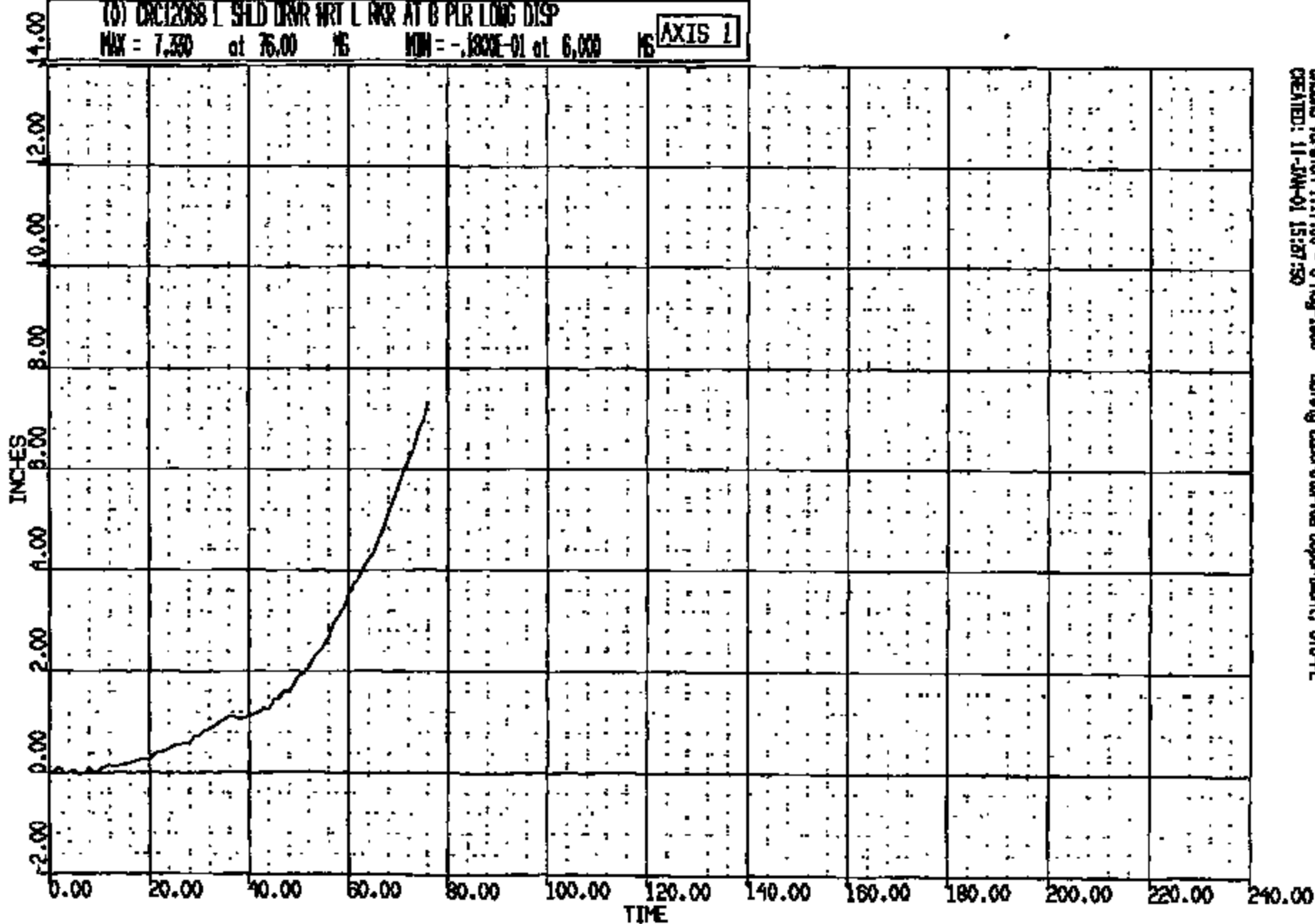


CRSING Version 1.17.00 - 8-May-1998 Safety Laboratories Department, 610-PL
CREATED: 11-JAN-01 15:57:29

CRIS 0012068

CN N: 12068 TD: TC1824 DATE: 00111 15:25:54
2000 D-185

(0) DDC12068 L SHLD DRVR WRT L RKR AT 8 PIR LONG DISP
MAX = 7.350 at 75.00 MS MIN = -.1830E-01 at 6.000 MS **AXIS 1**



CRSIS Version 1.17.00 - 8-May-1998 Safety Laboratories Department, G10-PL
CREATED: 11-JUN-01 15:27:50

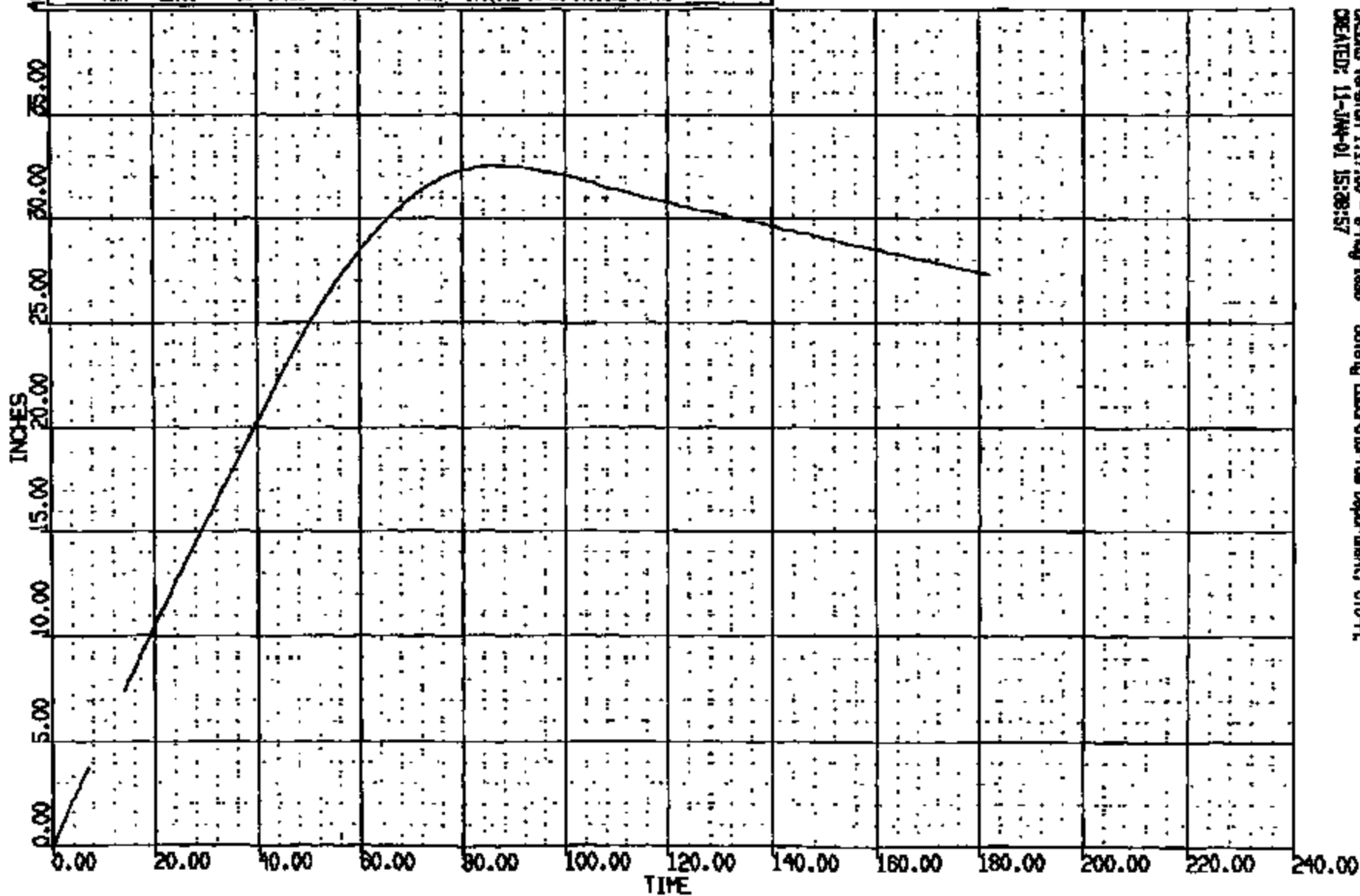
CRIS 0012068

CR R: 12068 TO: TC1834 DATE: 001112 15:25:34
2000 D-188

(0) CR12068 R ROR AT B PLR INT R END REF LONG DISP

MAX = 32.53 at 87.00 MS MIN = 0.000E+00 at 0.000E+00 MS

AXIS 1

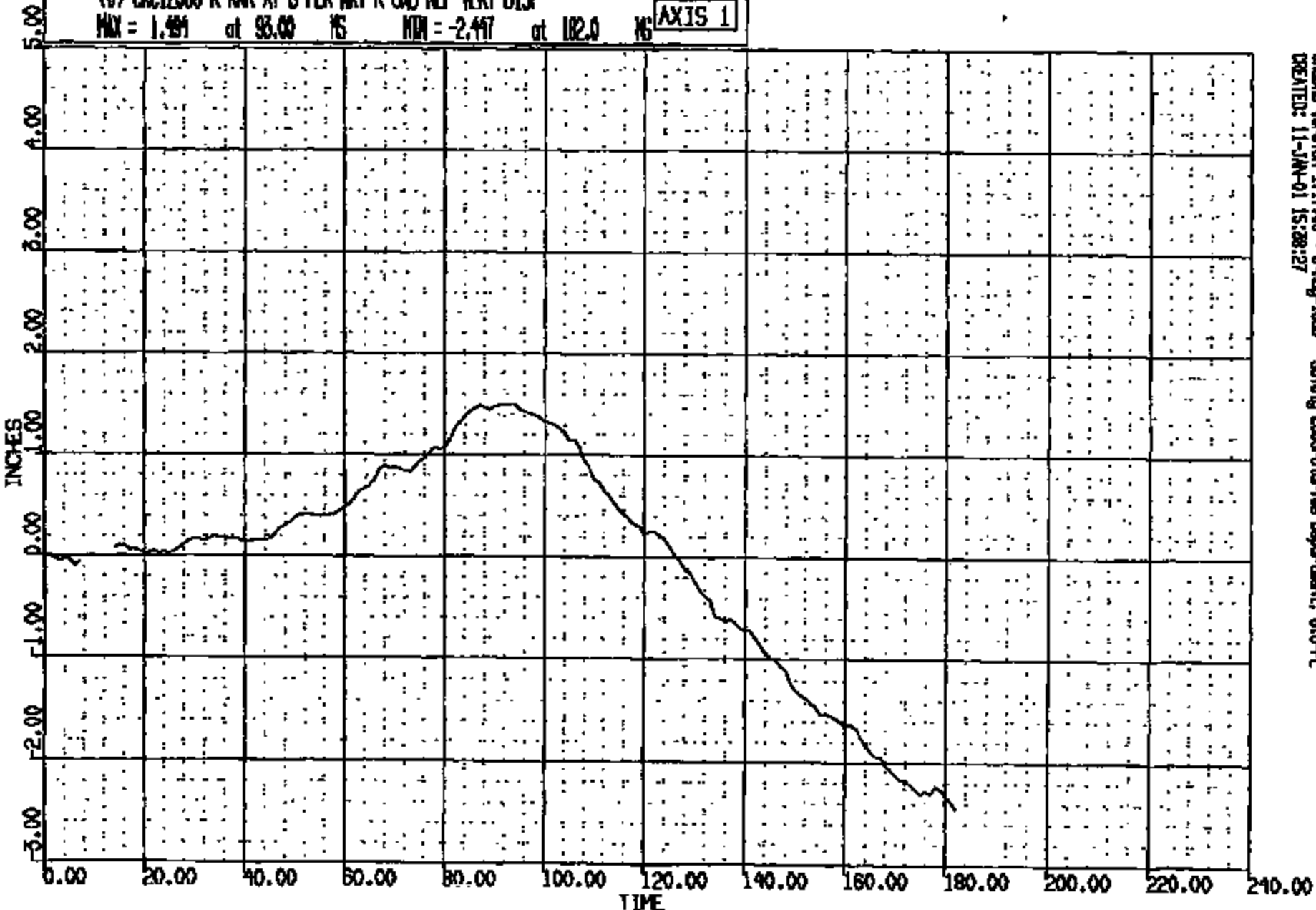


CRONUS Version 1.17.00 - 8-May-1998 Safety Laboratory Test Department, GTO-PL
CREATED: 11-JUN-01 15:28:57

CRIS 0012068

CR: R: 12068 TO: TC1884 DATE: 001114 15:25:54
2000 D-188

(0) CR012068 R ROR AT B PLR WRT R GND REF VERT DISP
MAX = 1.491 at 93.00 % MIN = -2.447 at 182.0 % **AXIS 1**



CASINS Version 1.17.00 - 8-Feb-1998 Safety Laboratories Department, 610-PL
CREATED: 11-JAN-01 15:28:27

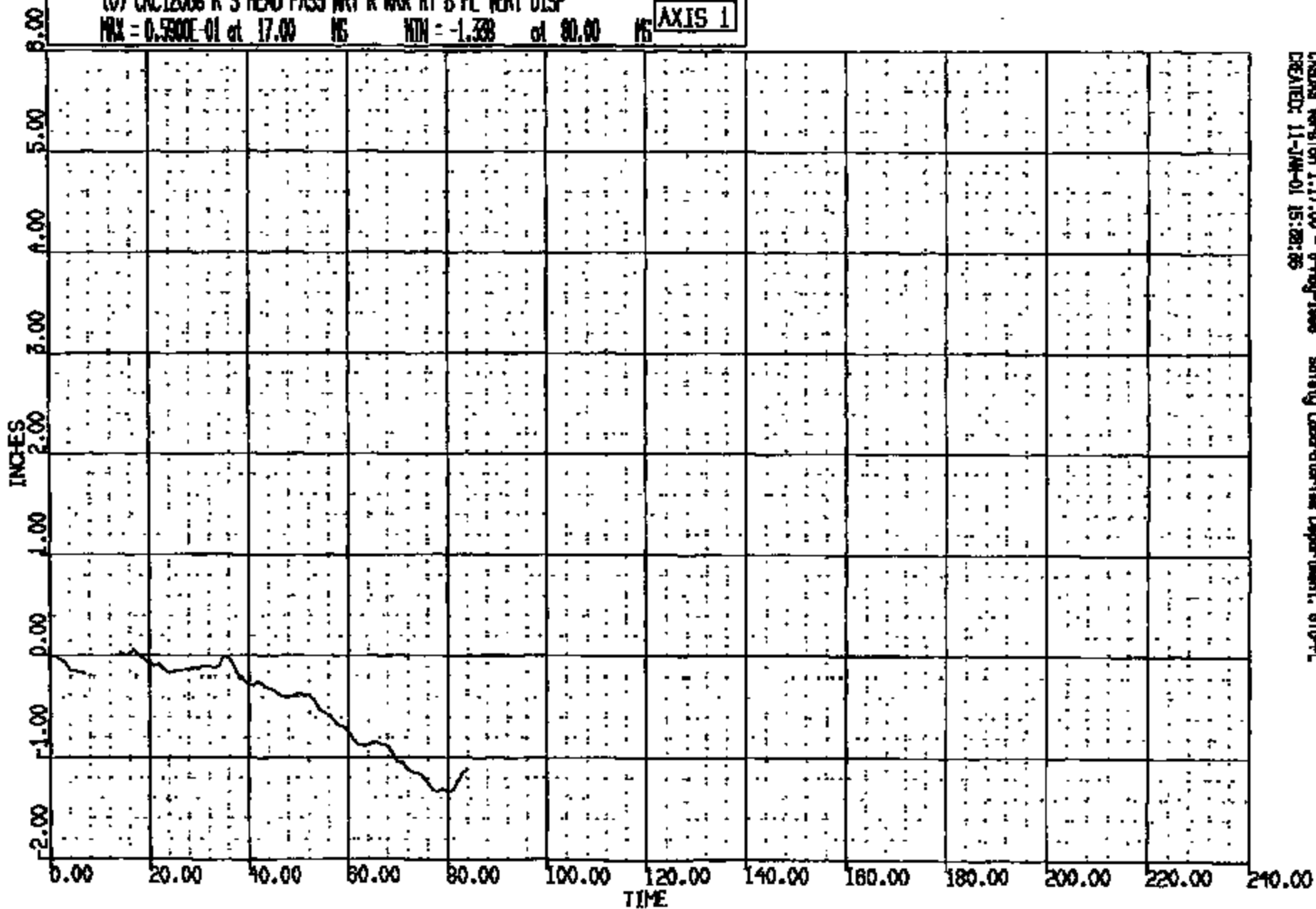
CRIS 0012068

CR R: 12088 TO: TC1834 DATE: 001114 13:25:34
2000 D-188

(0) CRC12088 R S HEAD PASS WRT R RNR AT B PL VERT DISP

MAX = 0.5900E-01 at 17.00 MS MIN = -1.338 at 80.00 MS

AXIS 1

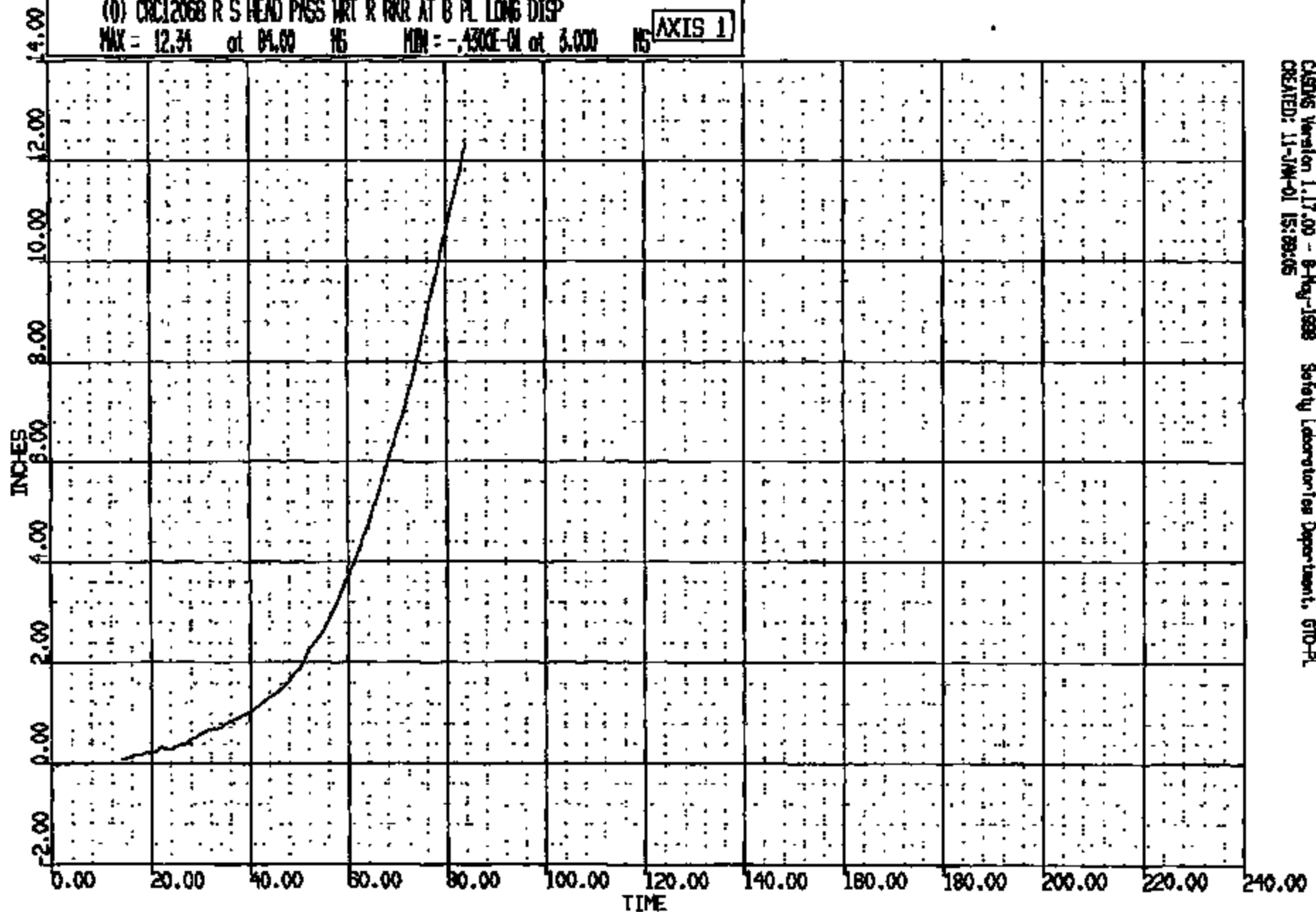


CADDS Version 1.17.00 - 8-May-1998 Safety Laboratories Department, STP-PL
CREATED: 11-JAN-01 15:28:26

CRTS 0012068

CRIS 12068 TO: TC1884 DATE: 00111 15:25:34
2000 D-188

(0) CRIS12068 R S HEAD PASS WRT R RGR AT B PL LONG DISP
MAX = 12.34 at 84.00 NS MIN = -.430E-04 at 3.000 NS AXIS 1



CRIS Version 1.17.00 - 8-May-1998 Safety Laboratories Department, GTO-PL
CREATED: 11-JAN-01 15:29:05

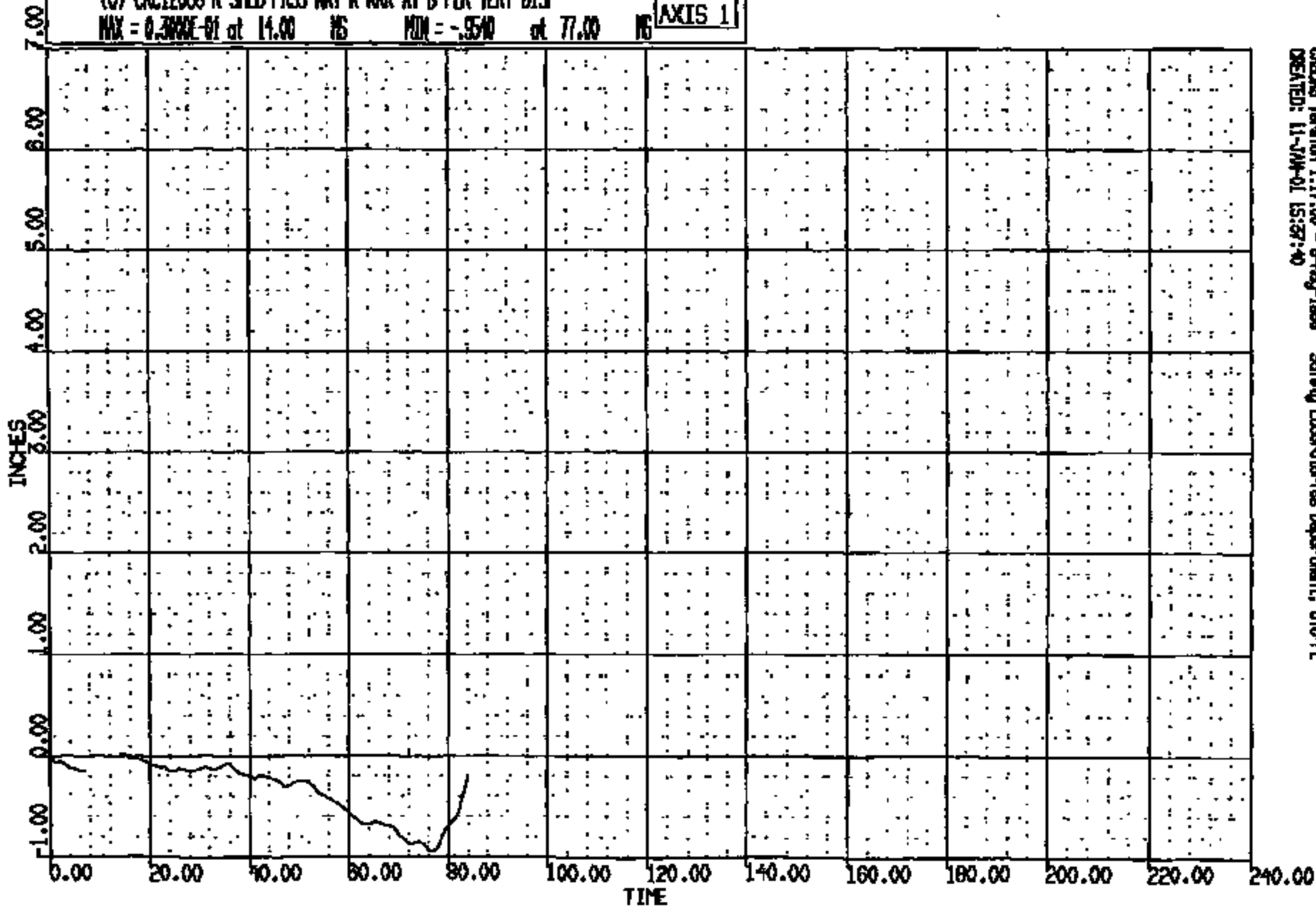
CRIS 0012068

NOX R: 12088 TO: TC1834 DATE: 00111 15:25:34
NOOO D-188

(0) CXC12068 R SHLD PASS WRT R RWR AT B PLR VERT DISP

MAX = 0.3000E-01 at 14.00 MS MIN = -.9540 at 77.00 MS

AXIS 1



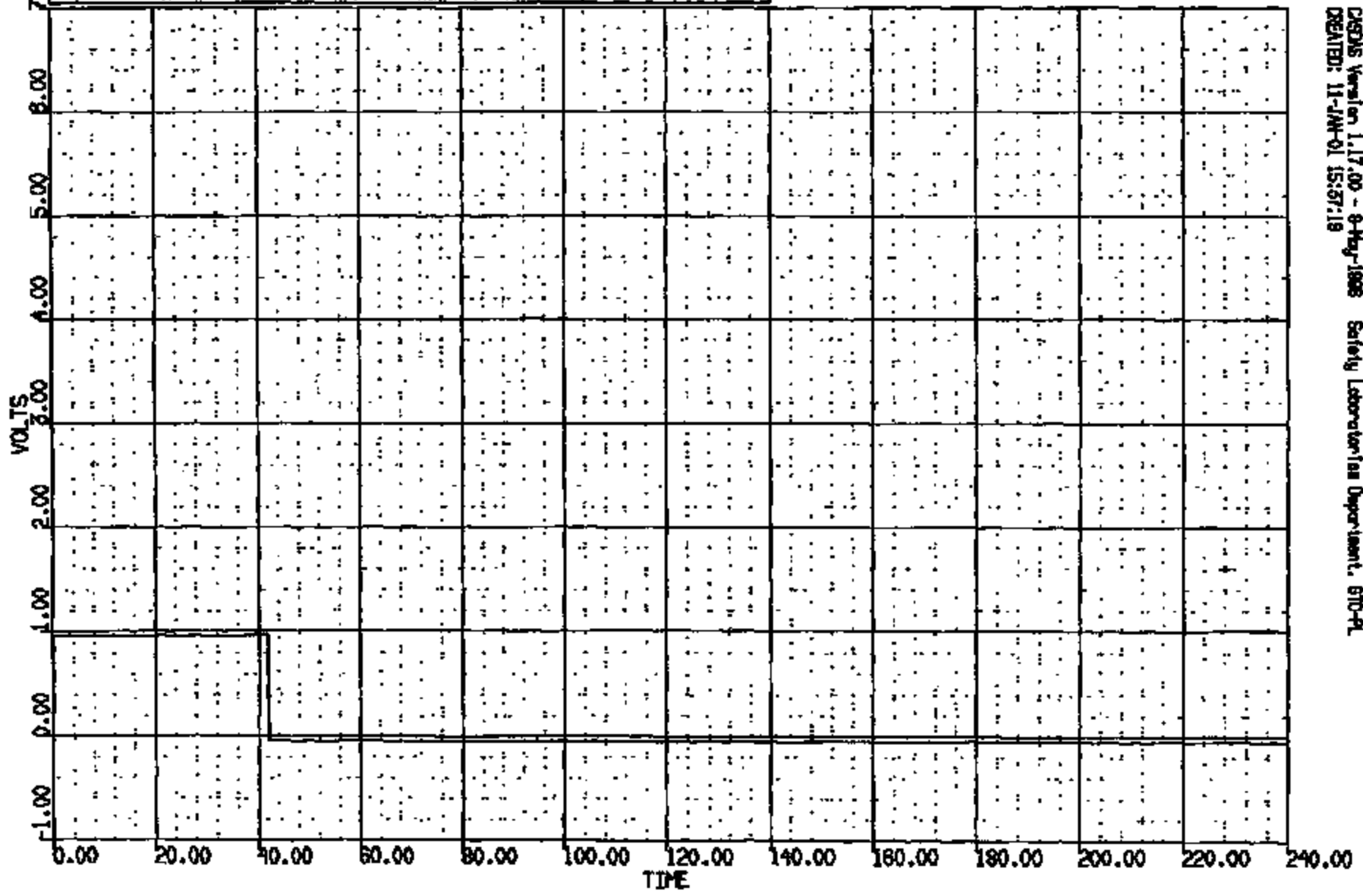
CASMS Version 1.17.00 - 8-Aug-1998 Safety Laboratories Department, 810-PI
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2000 D-198

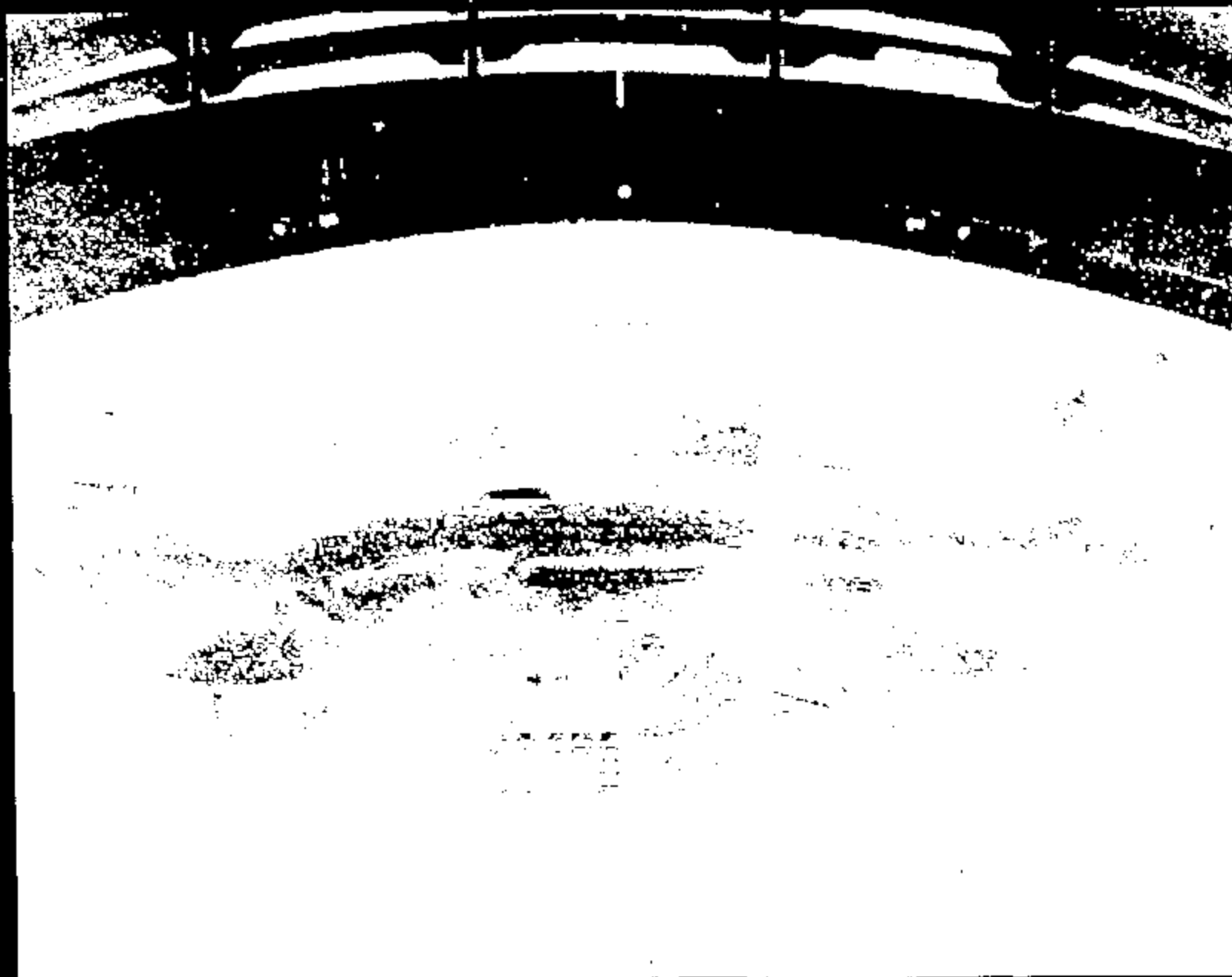
(1) CR12068T ALTERNATE T-ZERO SH 4000C
MAX = 0.9570 at 0.3000 NS MIN = -.495E-01 at -.762E-05 NS

AXIS 1



CRSIS Version 1.17.00 - 9-May-1998 Safety Laboratory Department, STD-PL
CREATED: 11-JAN-01 15:57:19

CRIS 0012068



CRTS 0012068

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Name:

12068003.jpg

CRTS 0012068



12068004.jpg

CRTS 0012

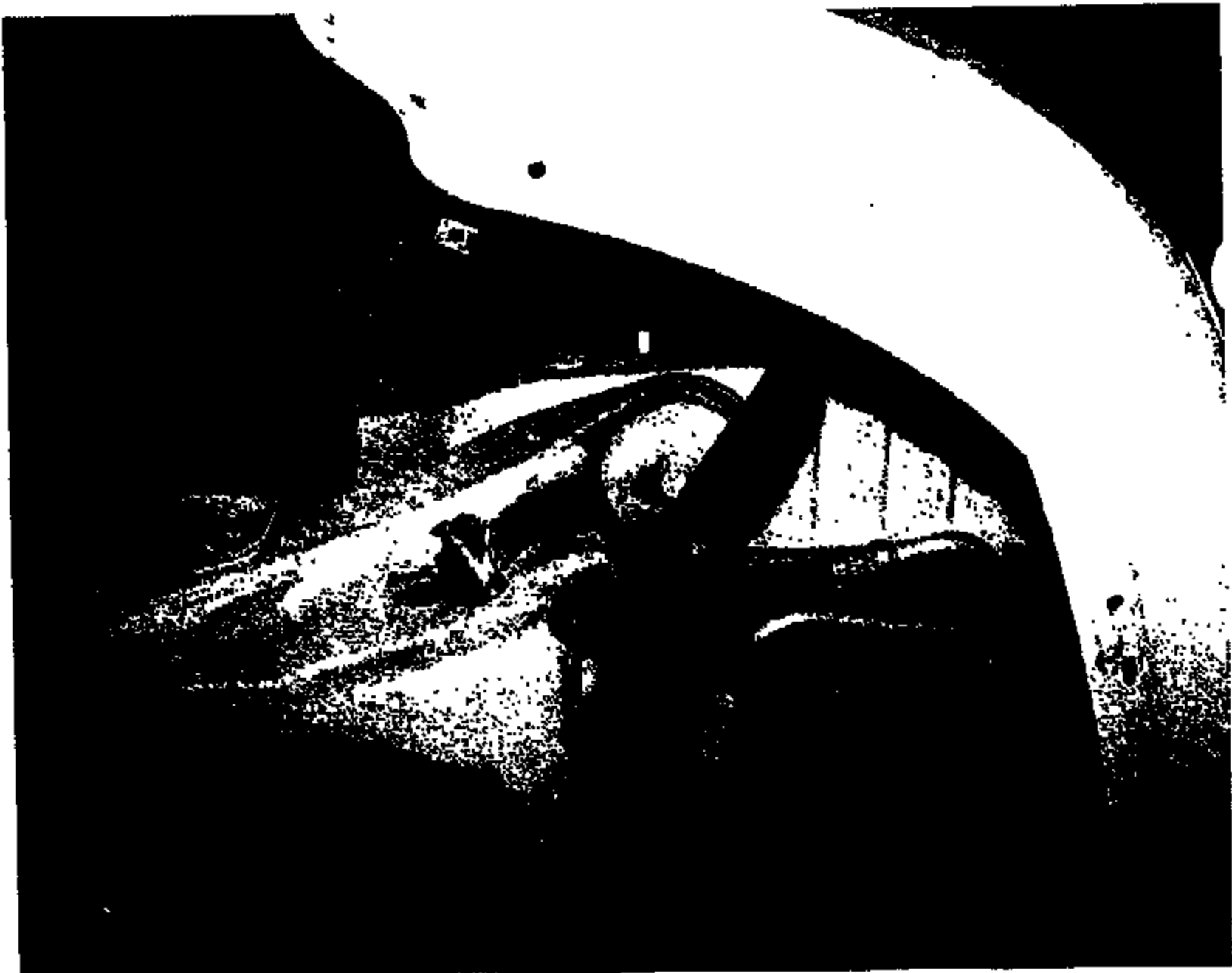
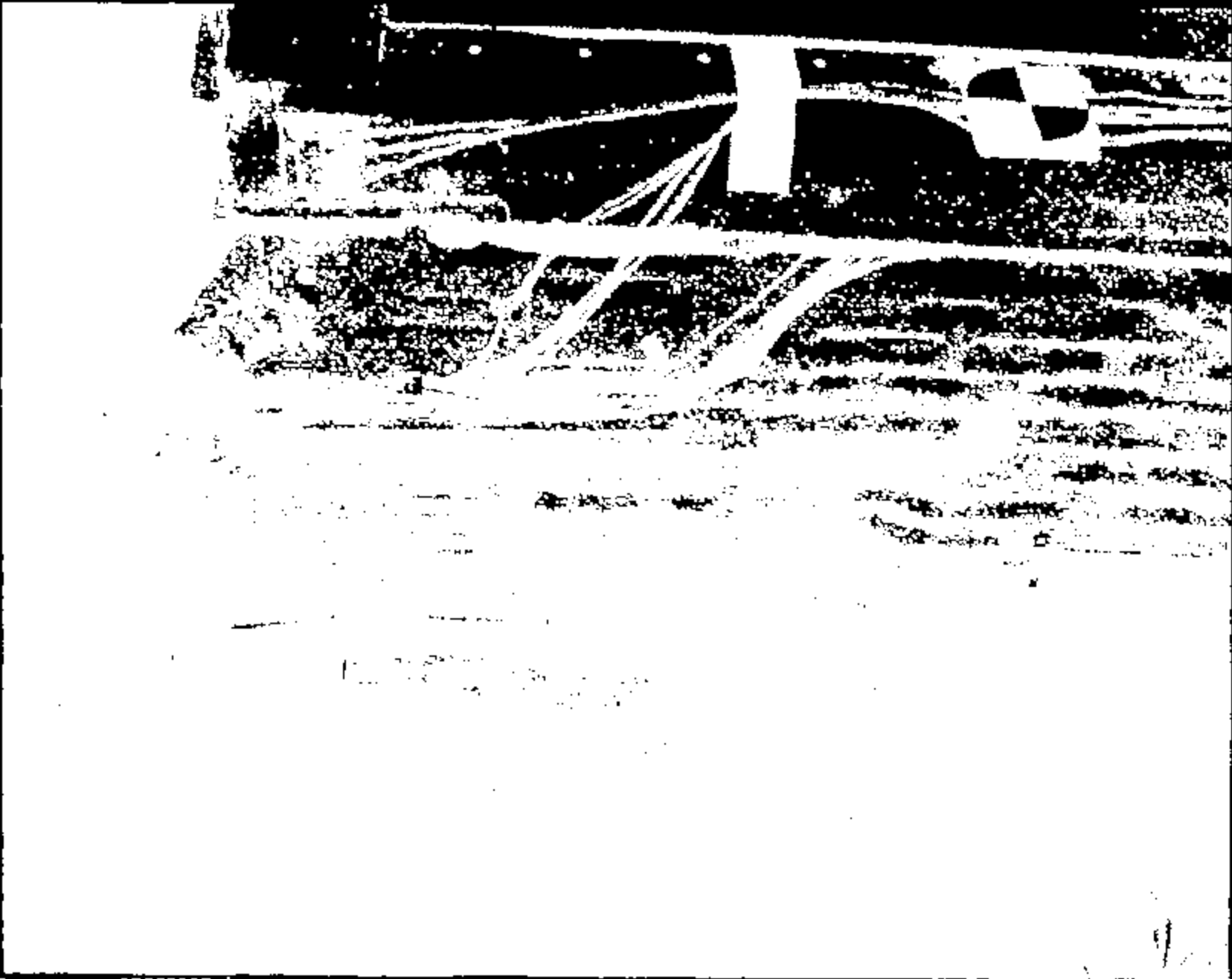


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CRTS 0012068



Image 1

12068507.jpg

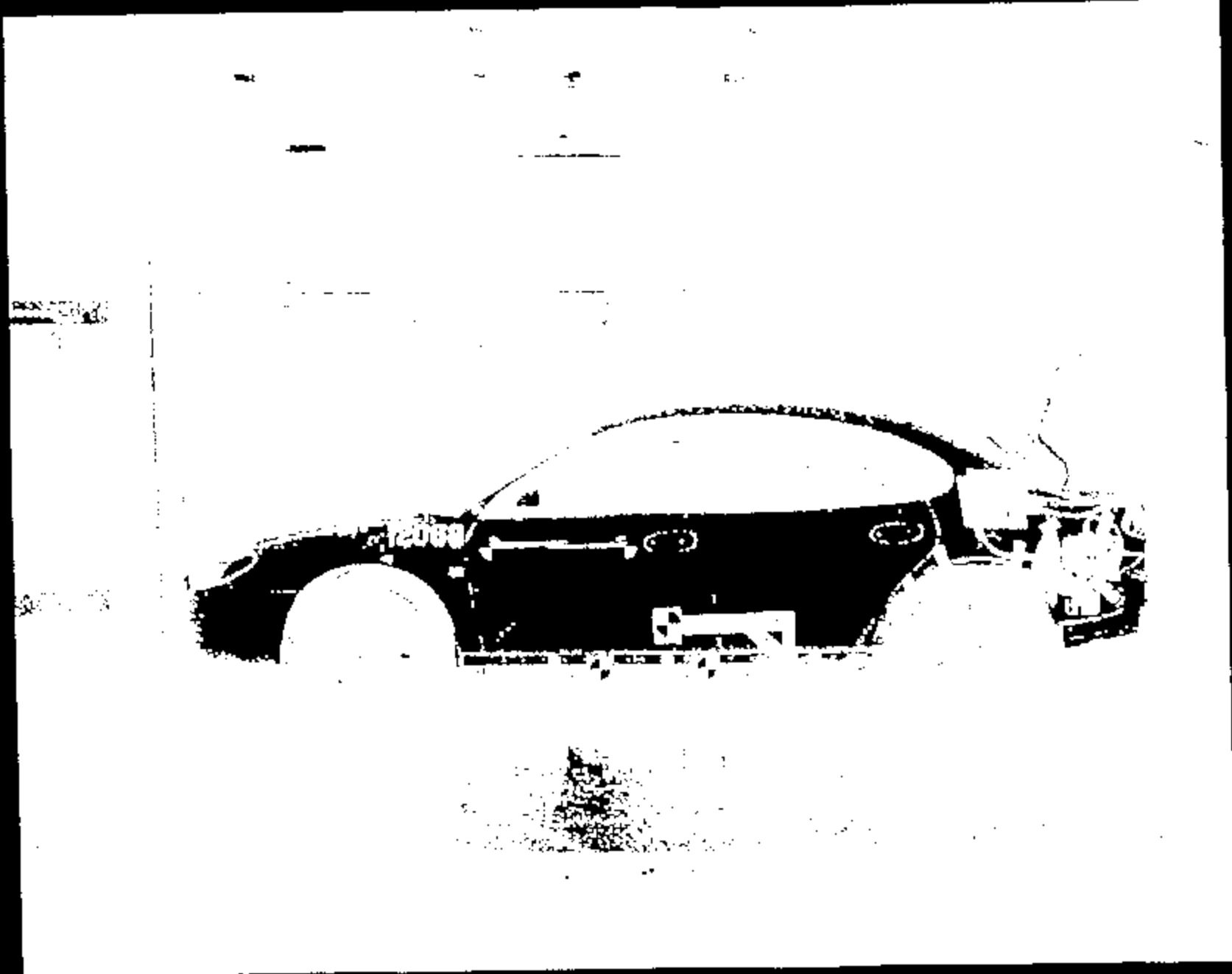
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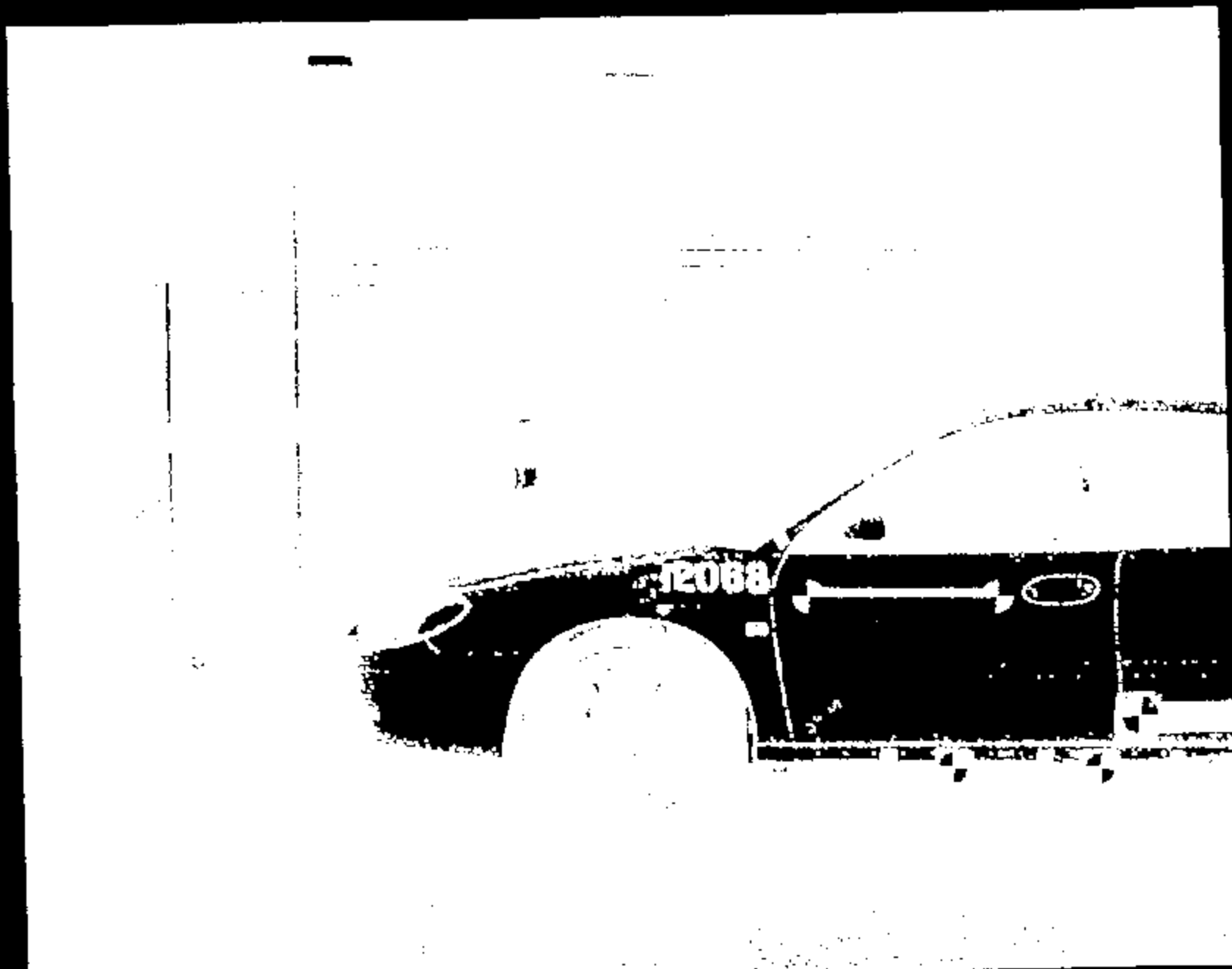
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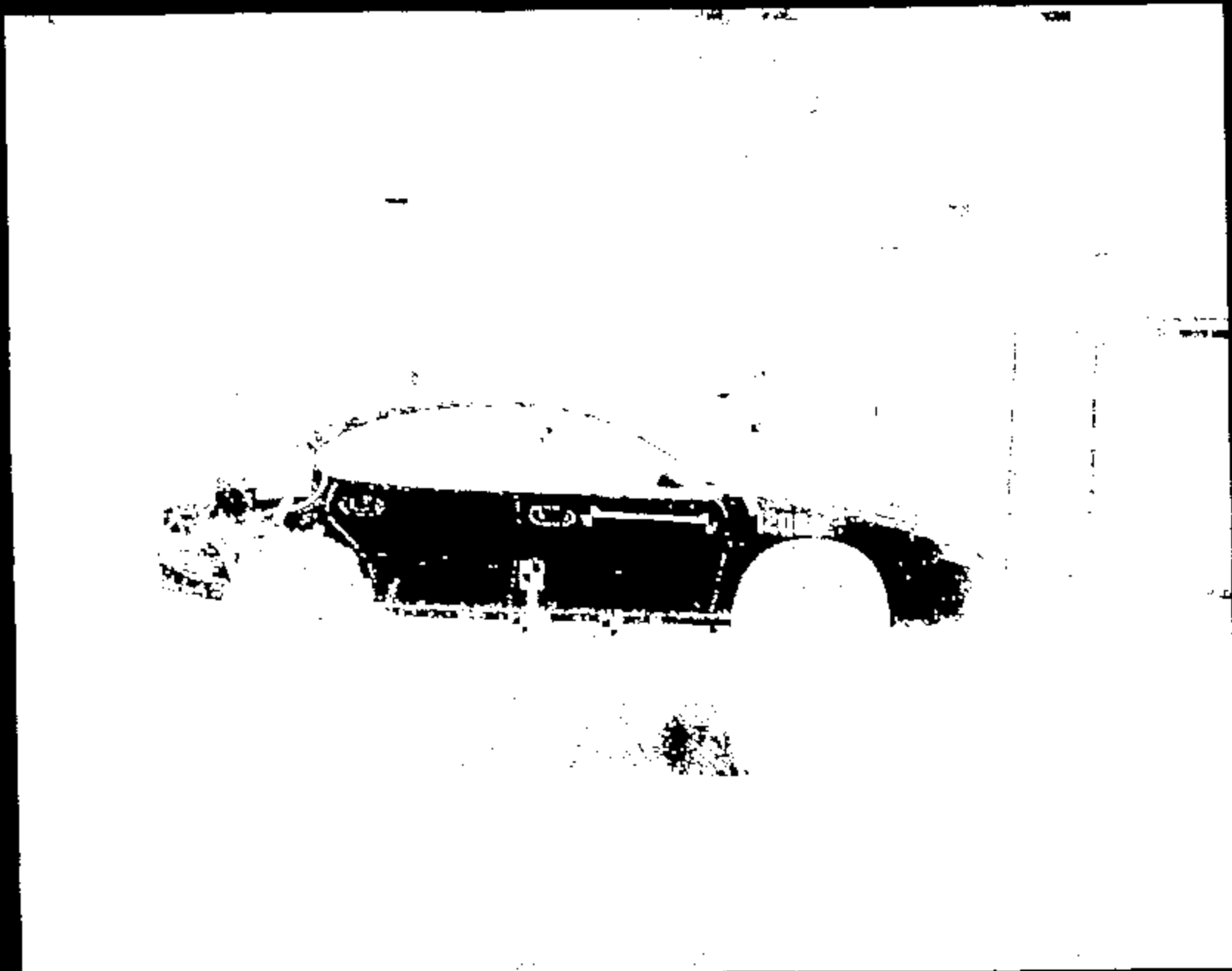
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CRTS 0012068

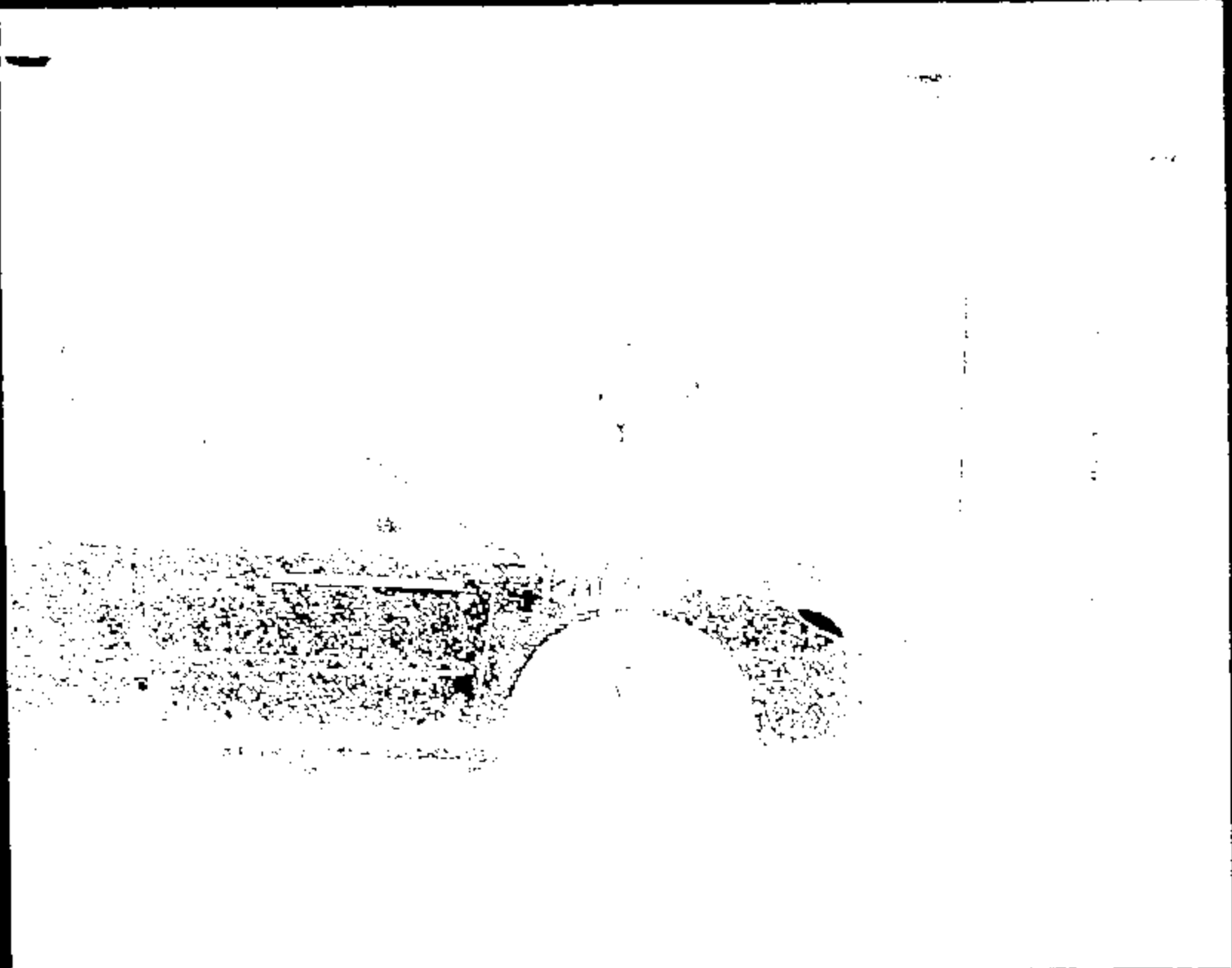
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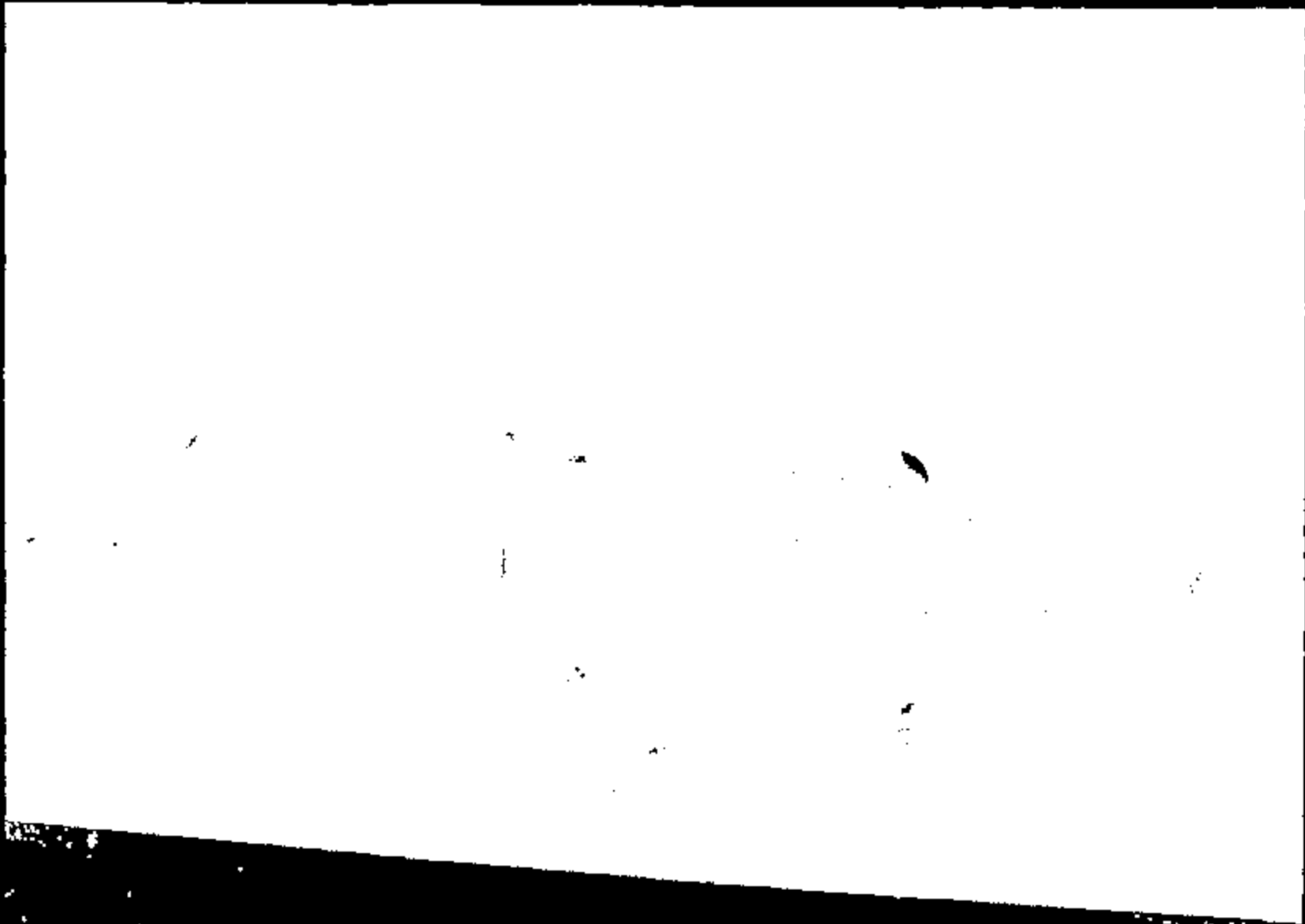
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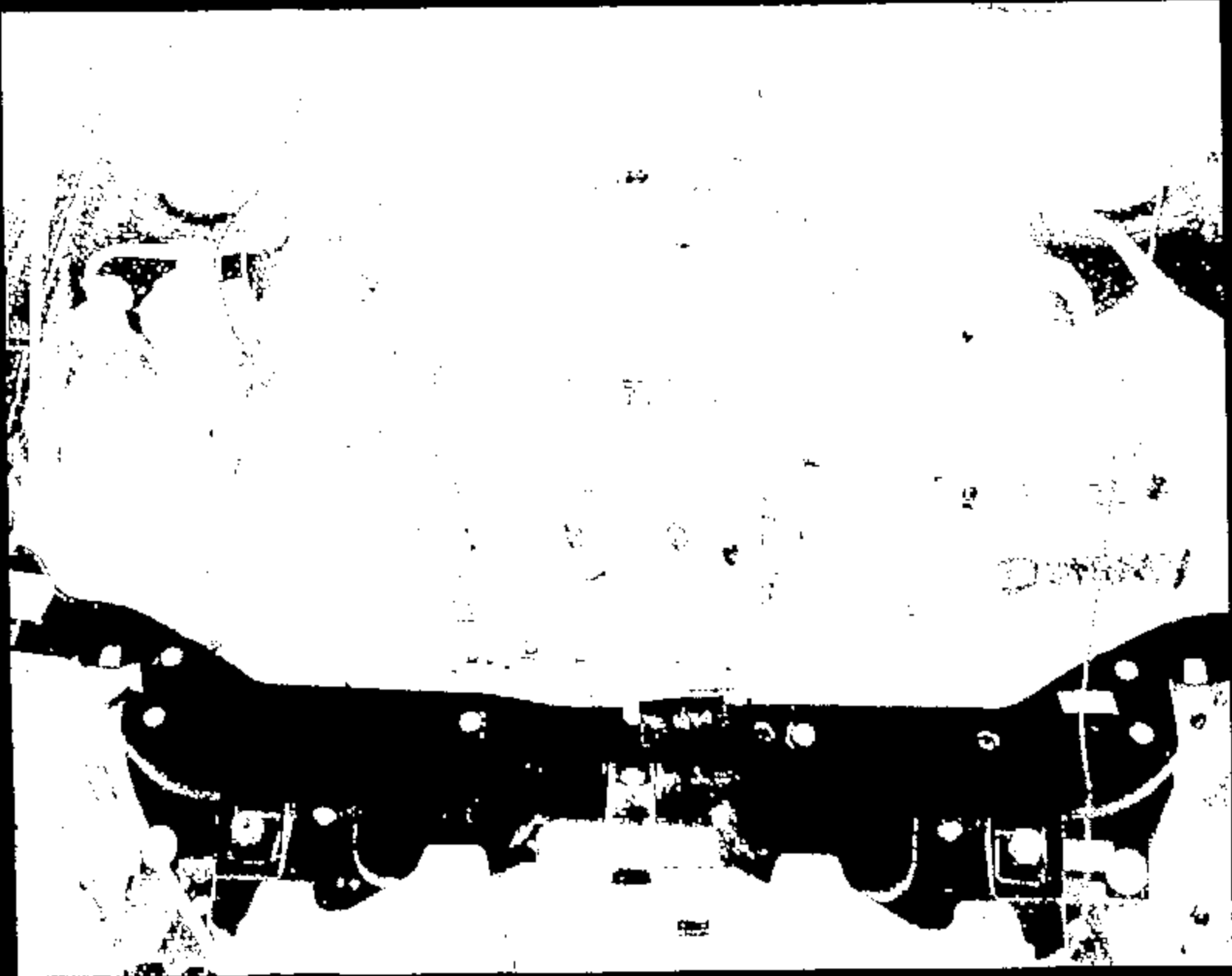
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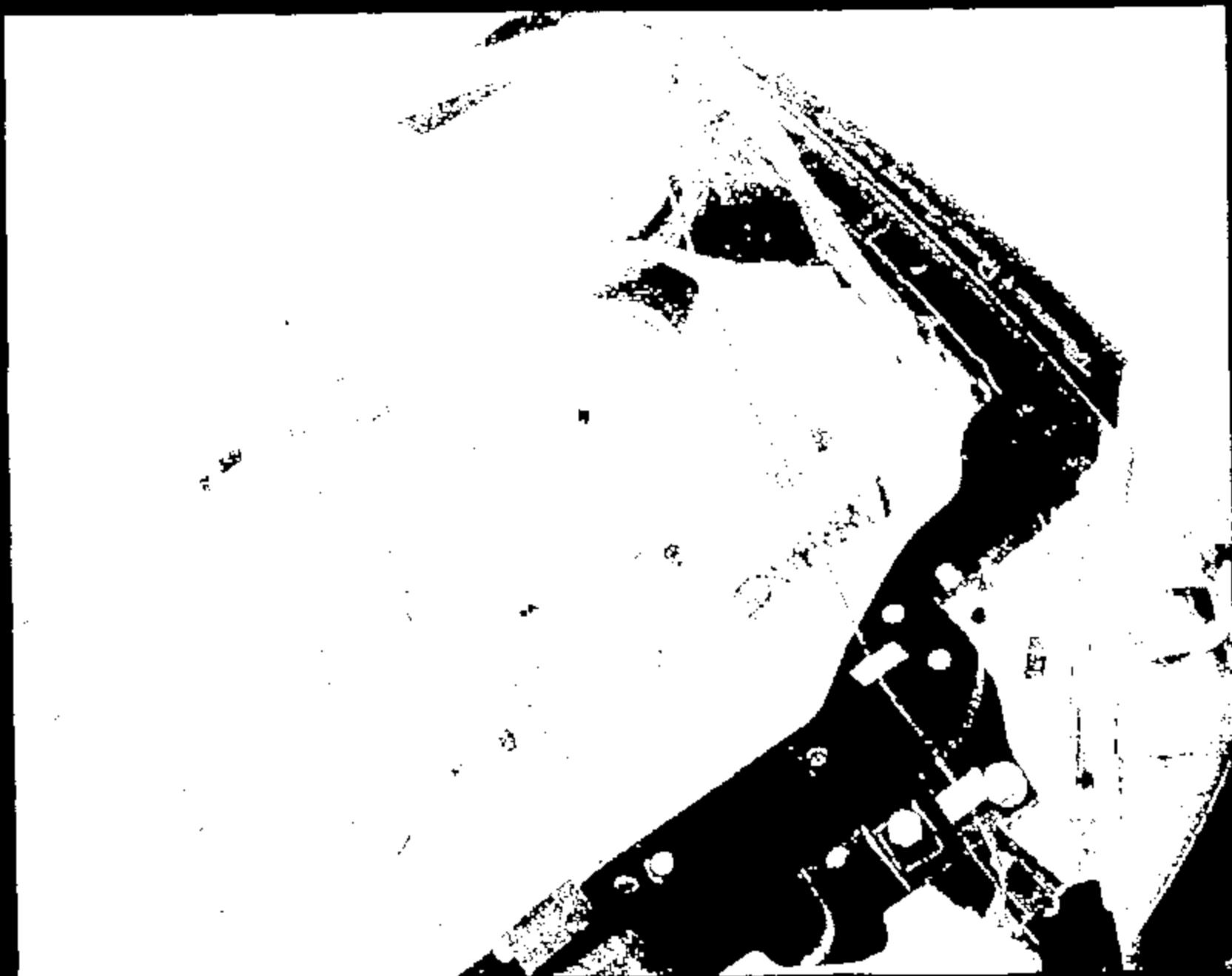
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CRTS 0012068

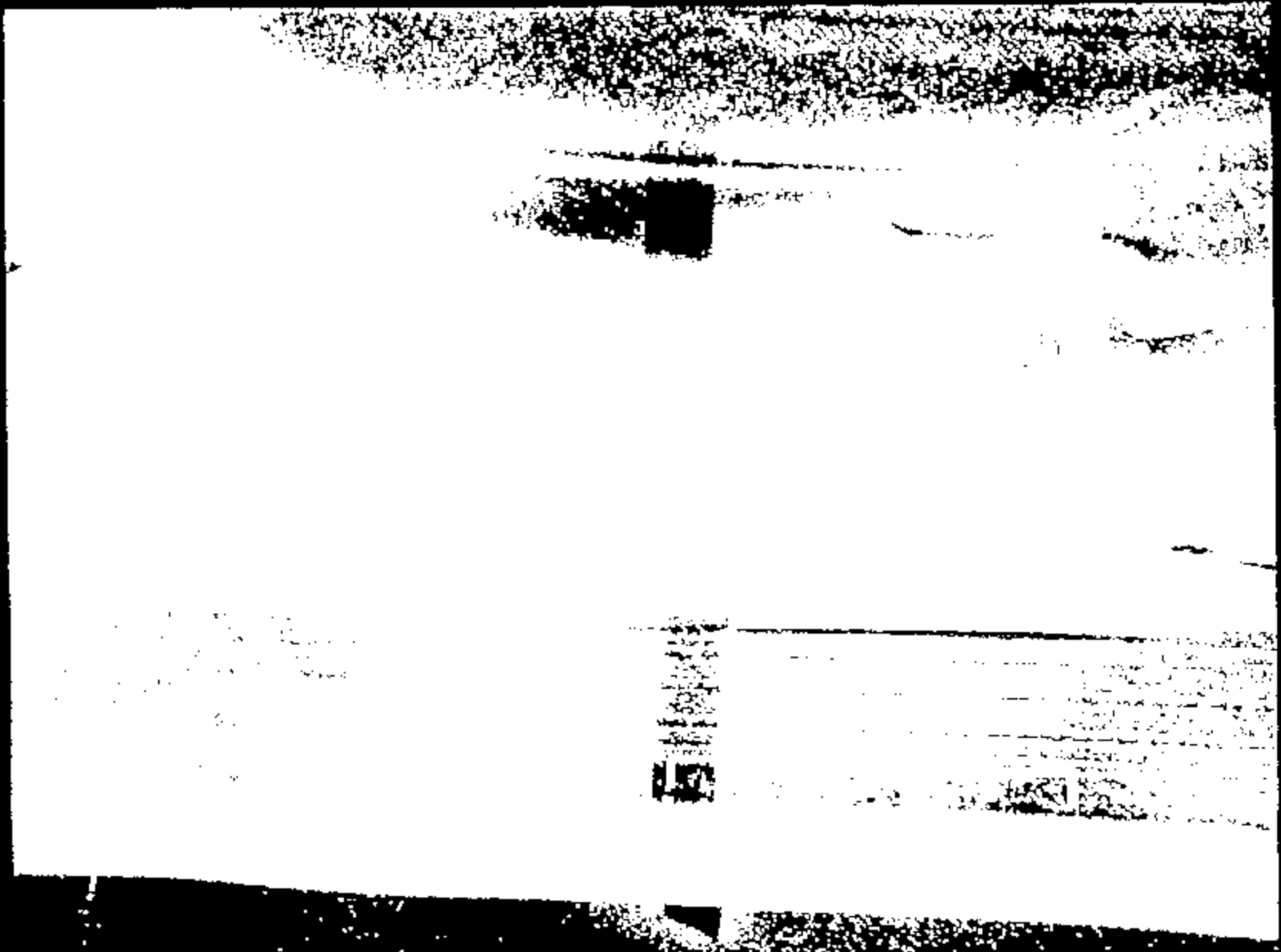
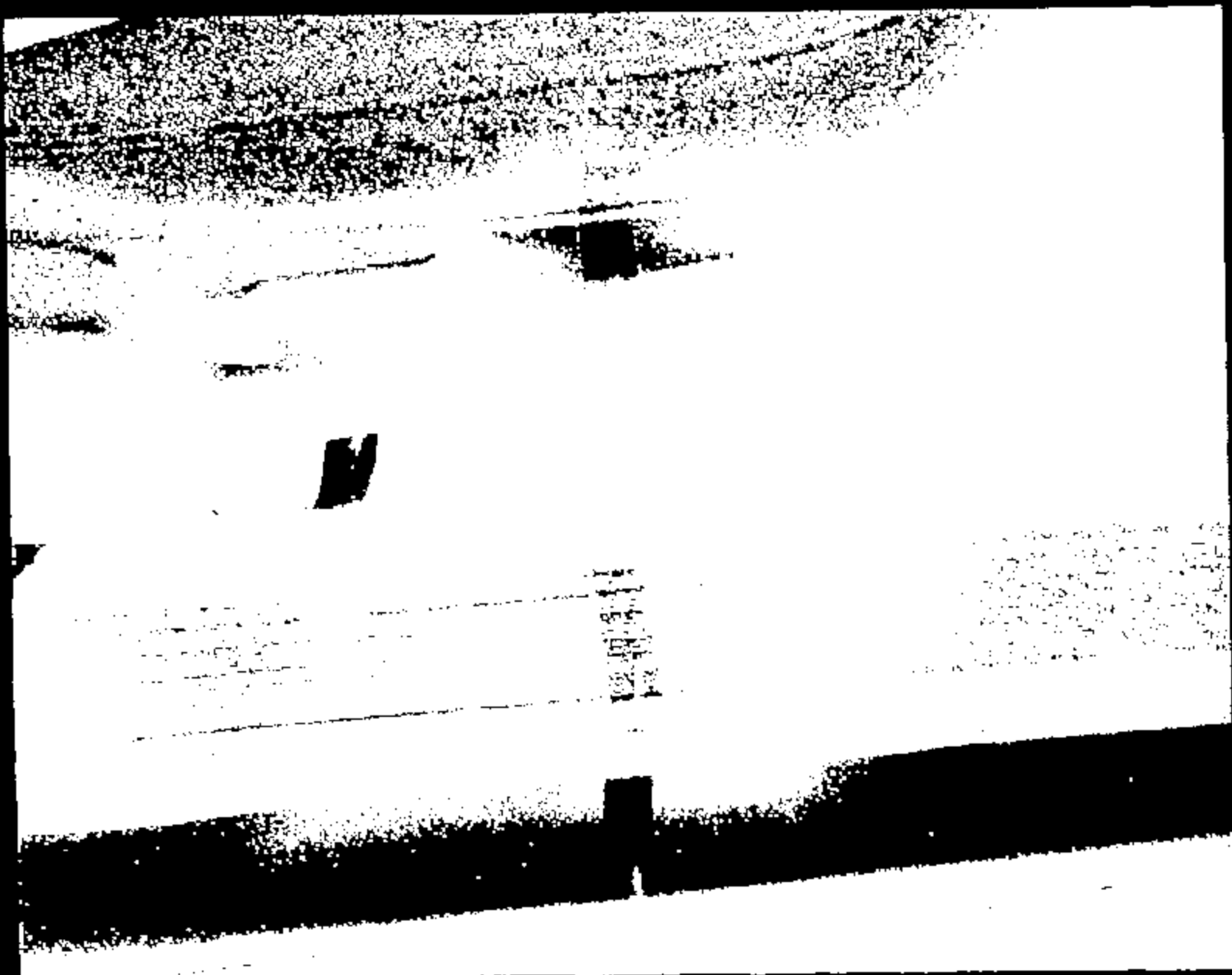


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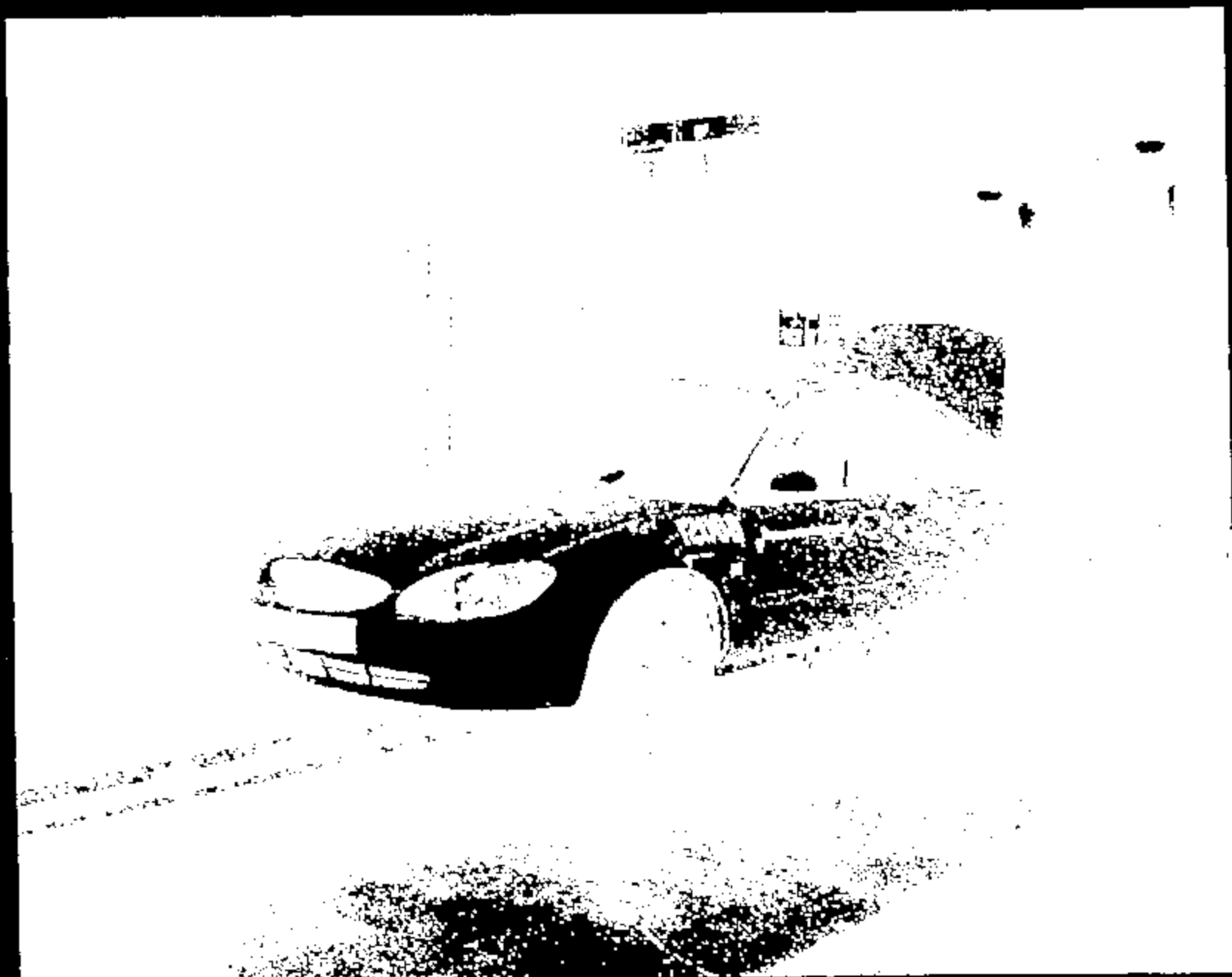
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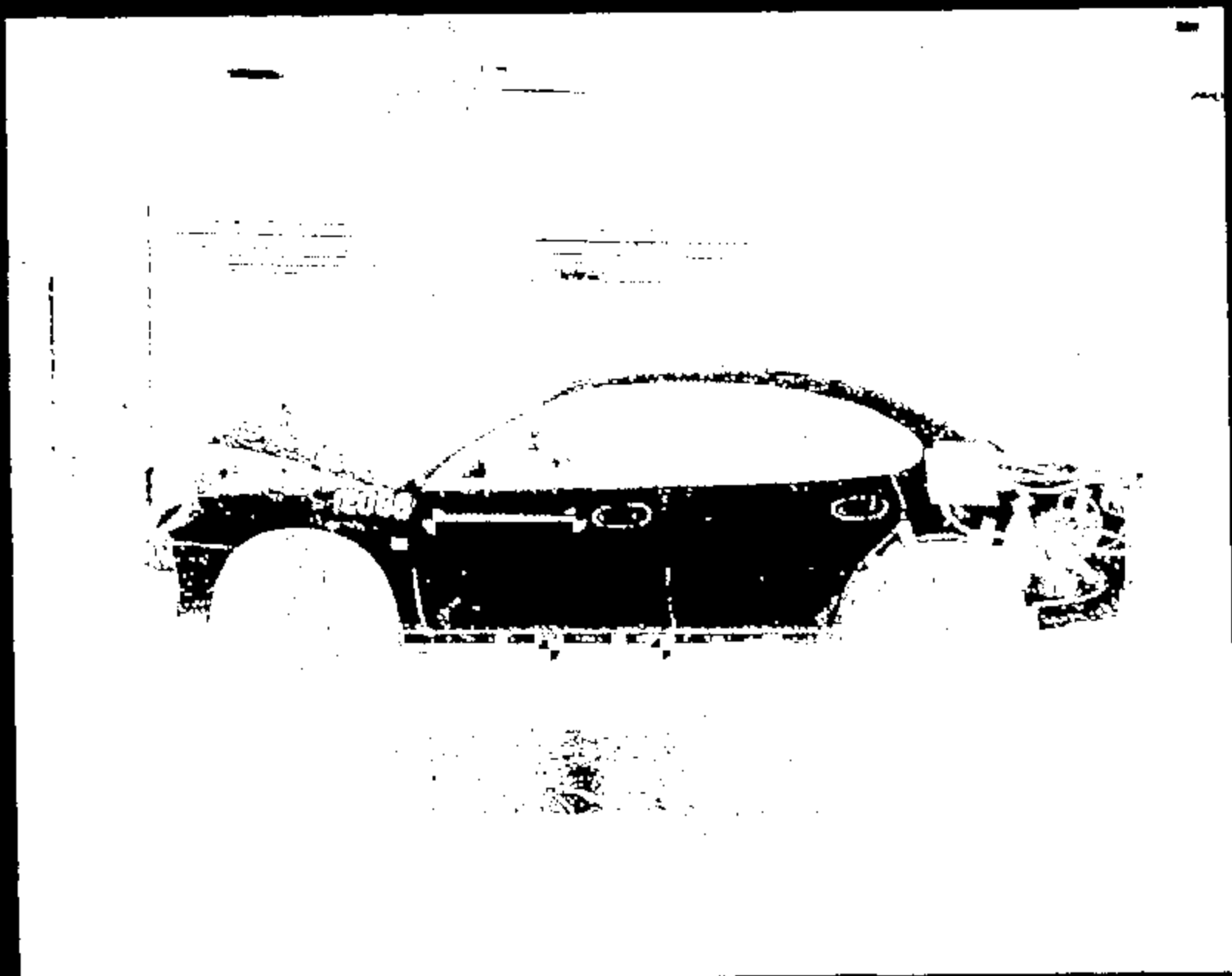
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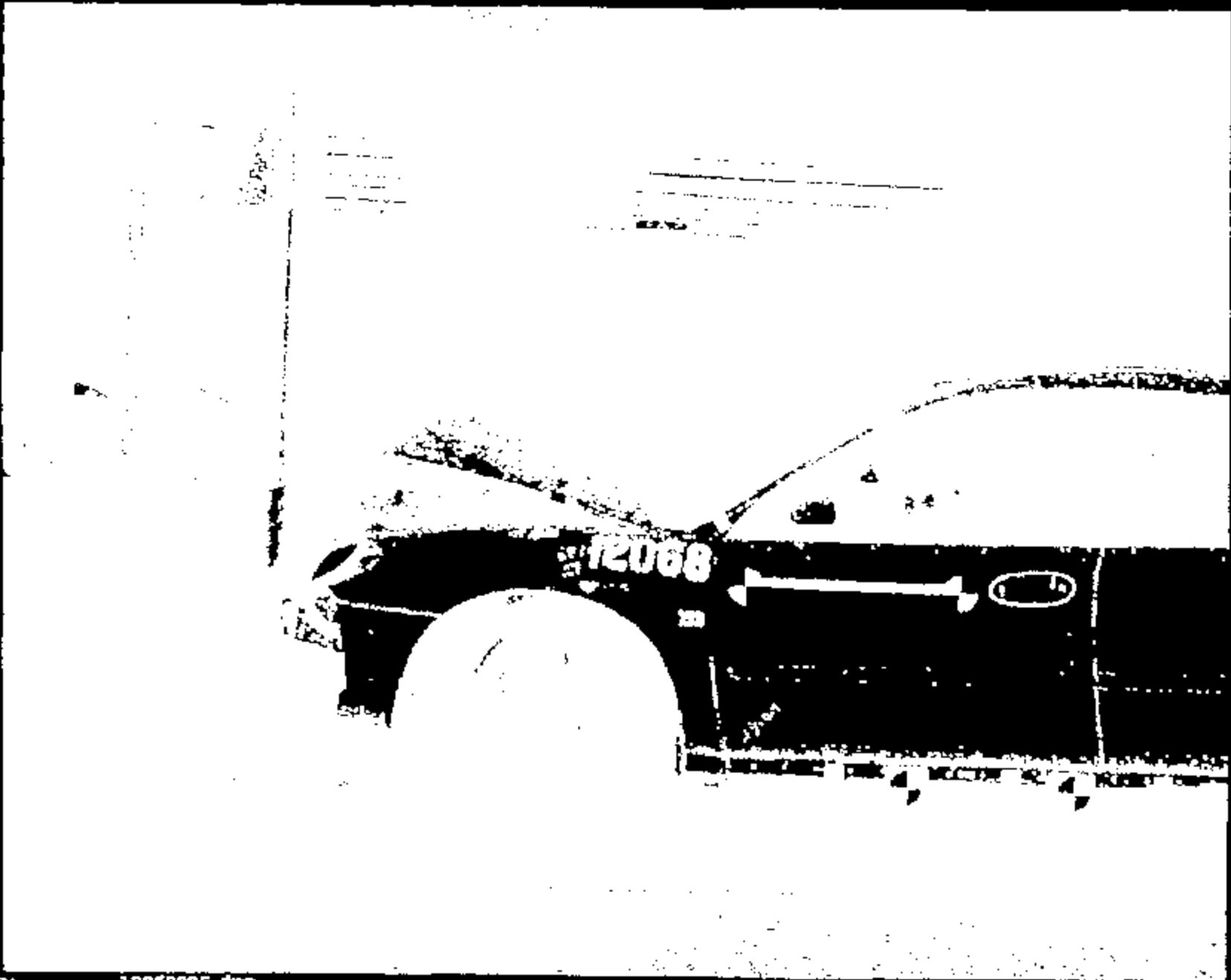
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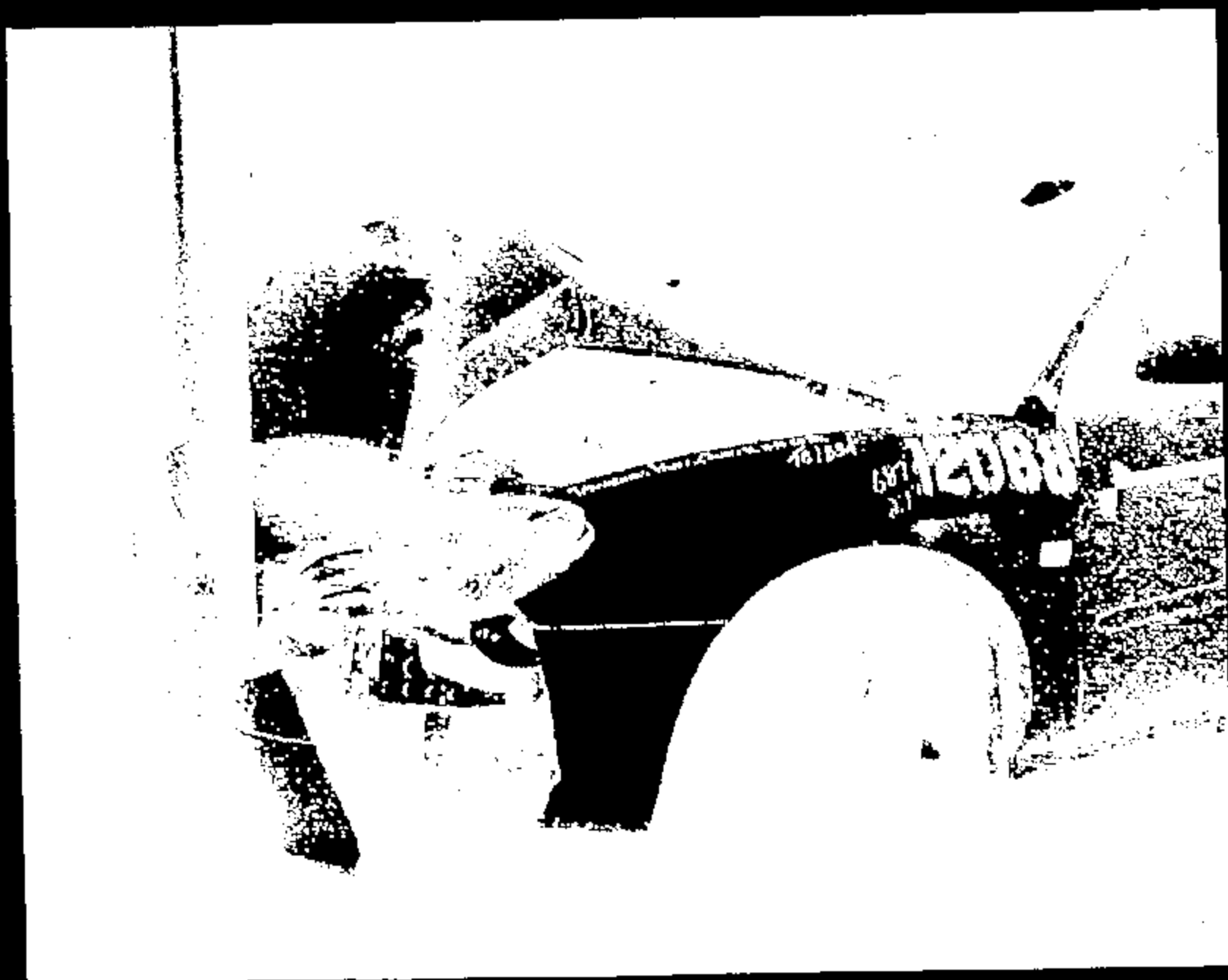
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CRTS 0012068

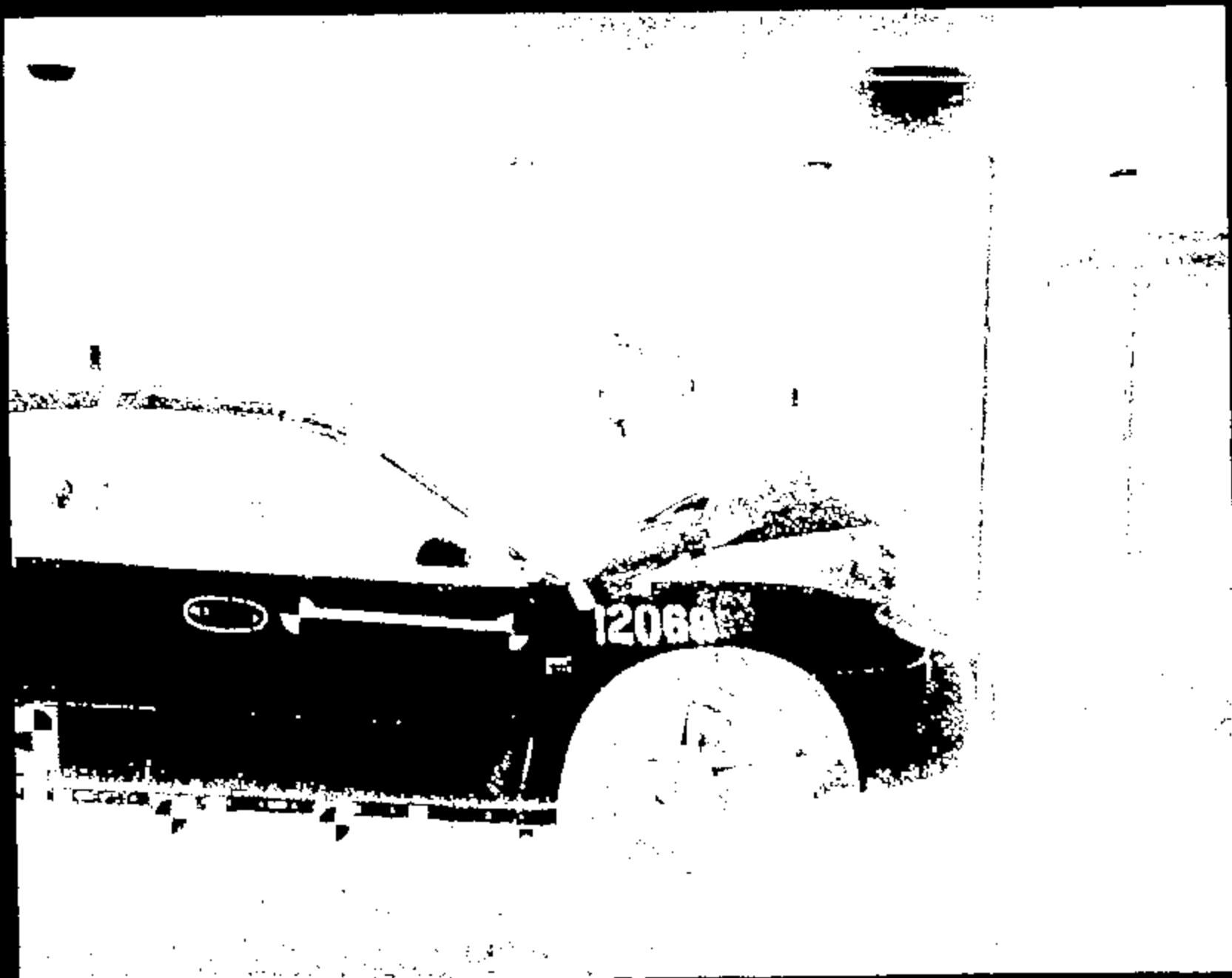
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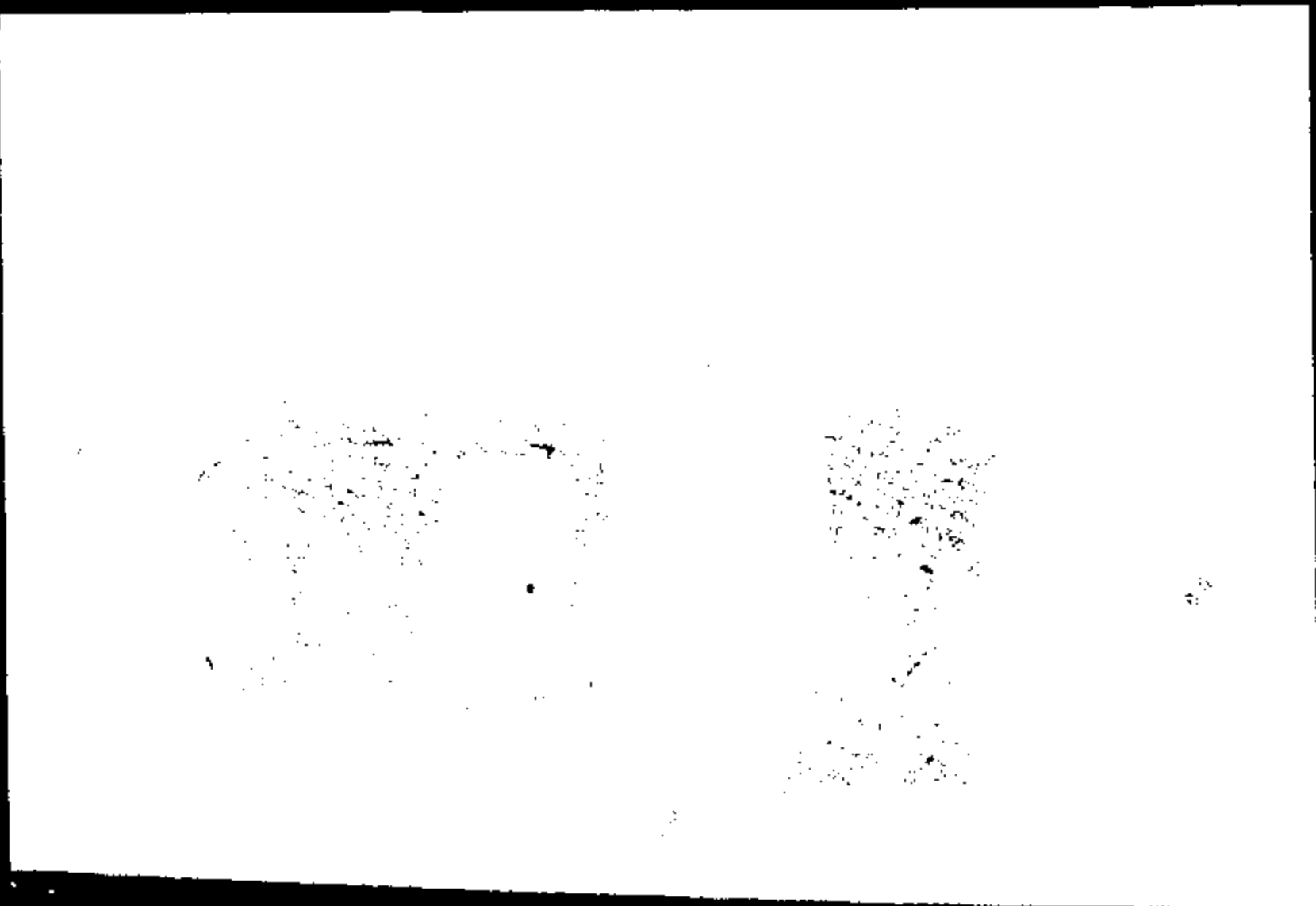


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CRTS 0012068

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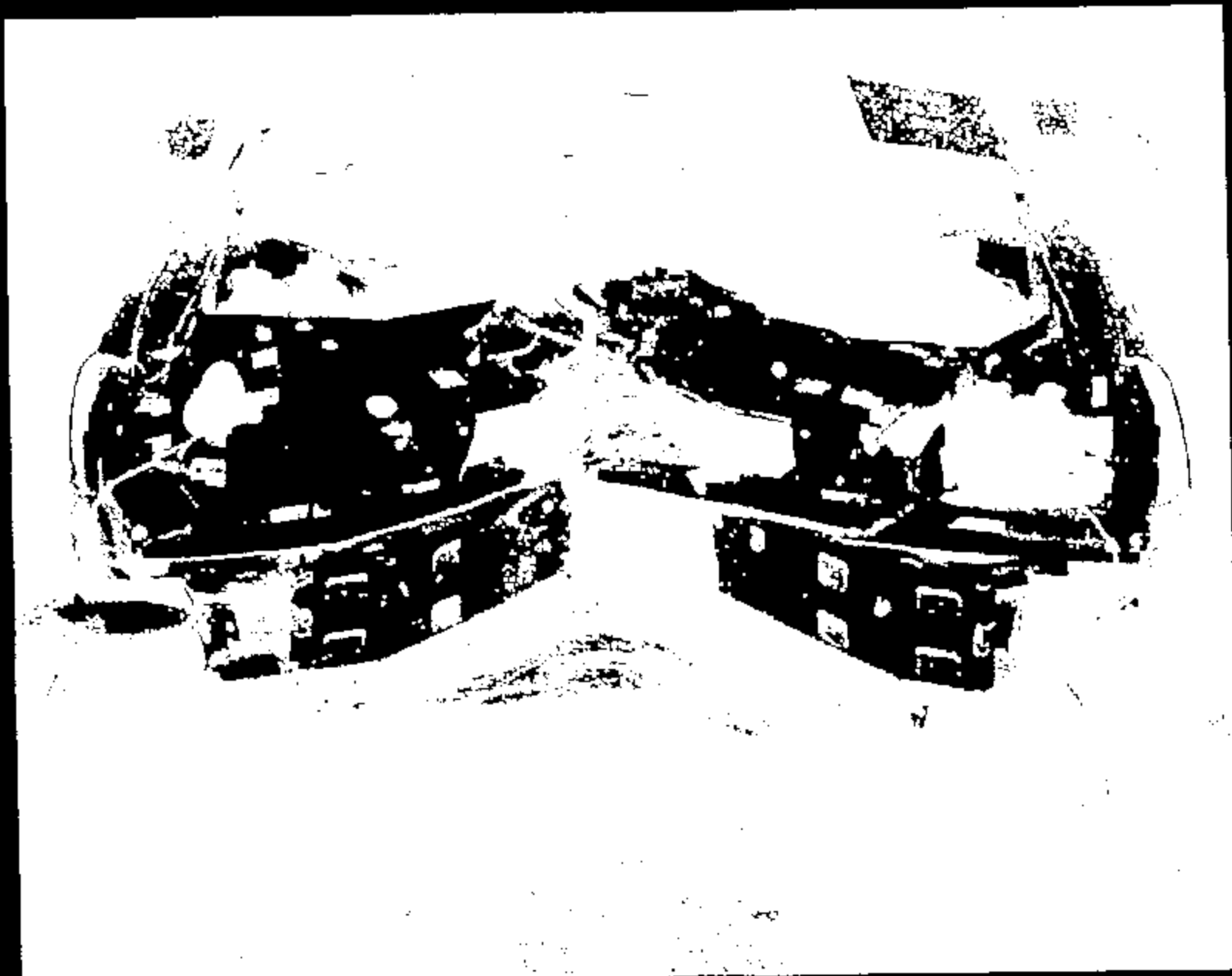
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CRTS 0012068

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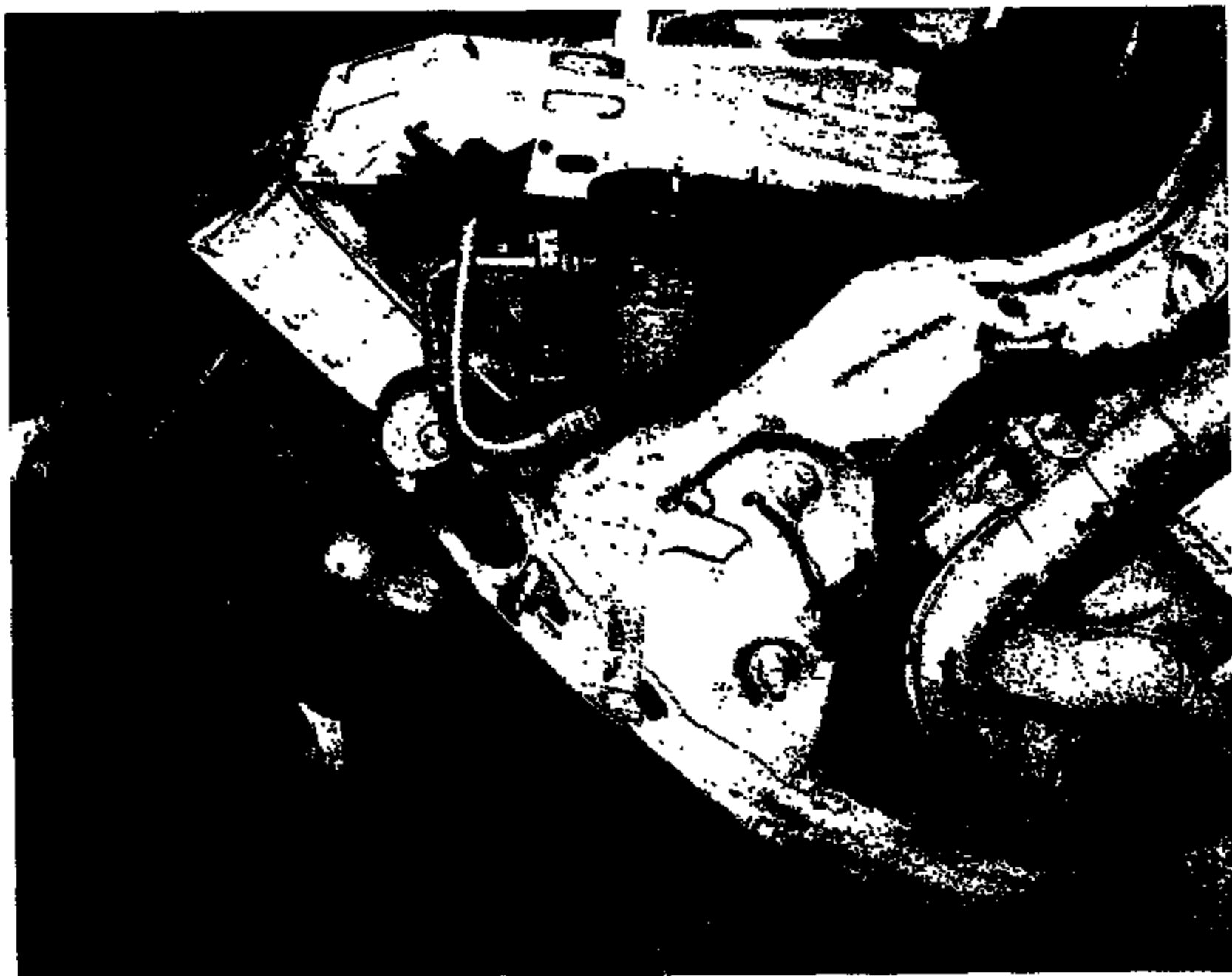
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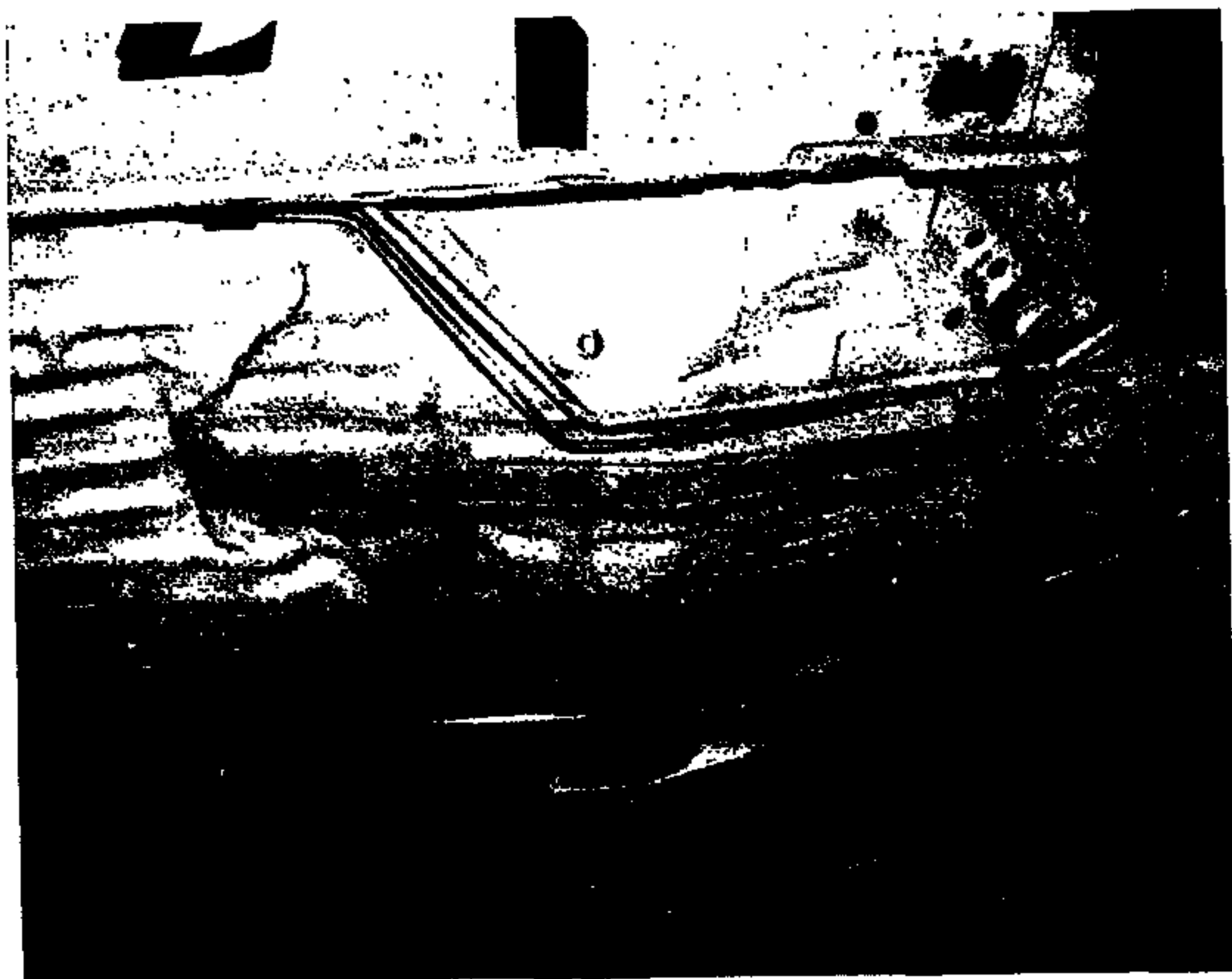
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CRTS 0012068



CRTS 0012068

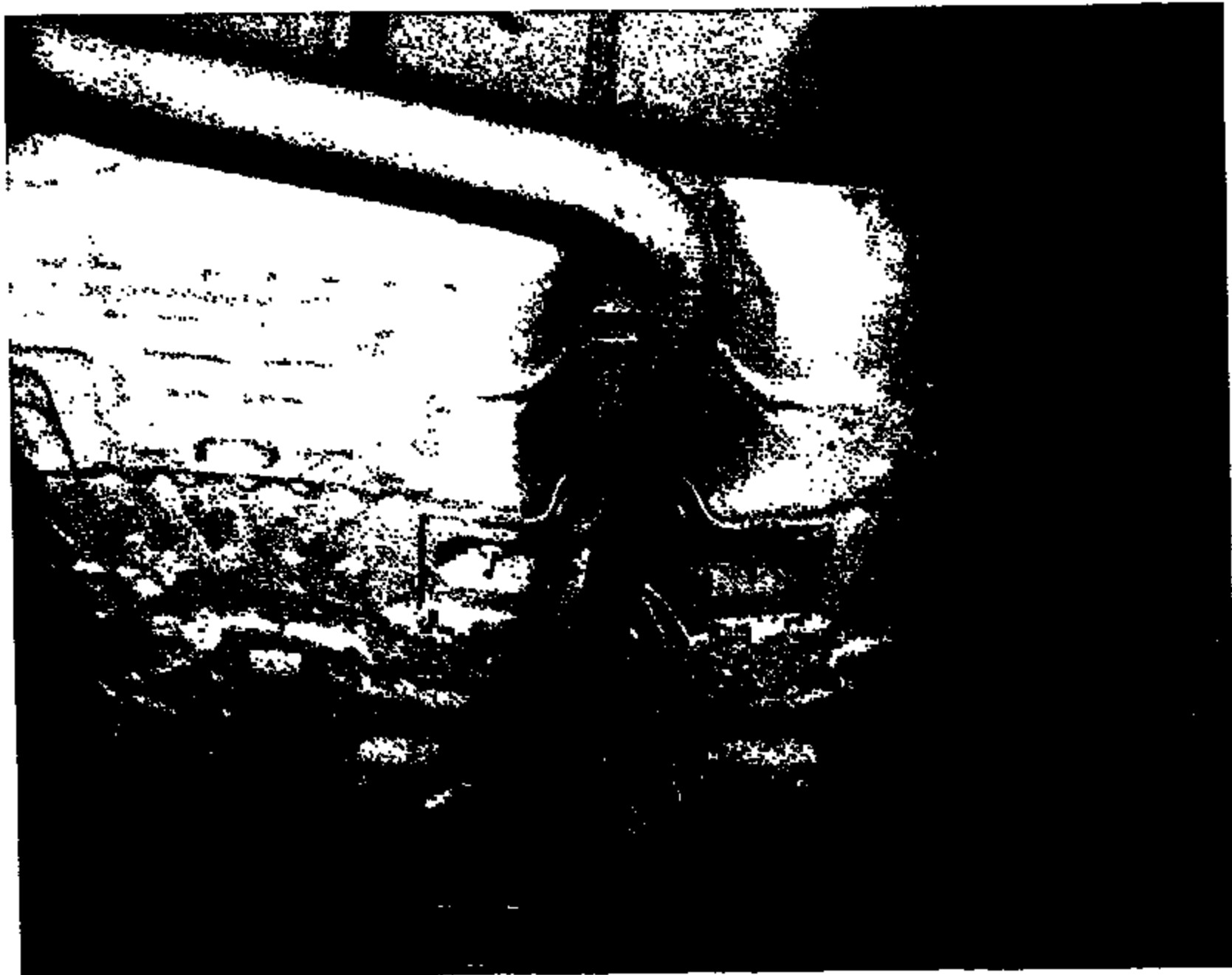
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TEST AUTHORIZATION				TEST AUTHORIZATION NUMBER: TC1834				
TO: Safety Lab Department CC: Kirk Arturs				REQUEST DATE:	REQUESTED COMPLETION DATE:			
				11/23/00	11/23/00			
				REQUEST NUMBER:	PROBLEM NUMBER:			
				n/a	n/a			
				REQUESTING ACTIVITY:				
				Vehicle Crash Safety				
TITLE OF TEST:		(speed)	(test description)	PARTS DUE DATE:				
2000 D186 30		30	Front Pole on vehicle center line	n/a				
TYPE OF TEST:		VIN # or IDENTIFICATION		VEHICLE MODEL & YEAR:		PROD. OR ENCL. LETTER:		
<input checked="" type="checkbox"/> VEHICLE <input type="checkbox"/> LABORATORY		576-211-1191		2000 D186		n/a		
ENGINE NO. DISPL. CAPB:		TRANS / DRIVETRAIN:	AXLE RATIO:	TEST CONDUCTED TO		DISPOSITION OF PARTS:		
engine size		AUTO	n/a	CERTIFY CONTROL ITEM		n/a		
TYPE OF FUEL:		CONVERTER:	IGNITION TIMING	COMPLIANCE WITH		PROCUREMENT REQ ?		
none		n/a	n/a	GOV. REGULATIONS:		<input type="checkbox"/> YES <input type="checkbox"/> NO		
CRANKCASE OIL AND CAPACITY (L):		TIRE SIZE		X Yes		IF YES GIVE CODE		
n/a		n/a		No		MAIL REPORT TO:		
VEHICLE TEST WEIGHT: LBS. Unless Noted			TIRE PRESSURE (psi):		REPORT CATEGORIES:		BLDG:	
FRONT	REAR	TOTAL	FRONT	REAR	<input checked="" type="checkbox"/> ENGINEERING <input checked="" type="checkbox"/> DATA <input checked="" type="checkbox"/> RAWDATA		Bldg #2	
2388	1704	4092	30	30			MAIL DROP: MD1288	
1. OBJECT OF TEST 2. TEST PROCEDURE 3. ITEMS TO BE TESTED (NAME, NUMBER, QUANTITY)								
1)	Conduct	(speed) 30 (mode) Front Pole on vehicle center line	(year) 2000	(vehicle) D186	(level) Production	<div style="border: 1px solid black; padding: 5px; display: inline-block;"> RECORD COPY Schedule No. <u>7-7-12</u> Retain Until <u>2020</u> </div>		
2)	Velocity At Impact: Remote Fire Time: Positioning Procedure:	30 N/A BT-14						
3)	Vehicle Year:	2000			Vehicle Line:	D186	Vehicle Level:	Production
Test Requester:		(name)	(phone)	(page number)				
Build Coordinator:		John Fazio	32-91162	JFAZ				
Additional Contacts:		Mark Derzid	24-88577	MDEN	Estimated test cost =			
		Mary Wroten	33-71739	MWRO	-			
		Abe Philip	33-41184	APHI	-\$50,000.00			
Test Dev. Engineer: <i>[Signature]</i>								
REQUESTING SECT. NO:	WORK ORDR/WORK TASK:	REQUESTED BY:	PHONE:	APPROVAL:	TEST TYPE:	RTRC:	SGN OFF DATE:	
Y881	F17	John Fazio	32-91162	Kirk Arturs	n/a	n/a	n/a	
COMPLETE THE FOLLOWING TWO QUESTIONS AS INDICATED:								
(Check appropriate boxes)				(Check appropriate boxes)				
1 - Reason for not replacing this test by CAE analysis: <input type="checkbox"/> No DAE Methodology or process available <input type="checkbox"/> No DAE Correlation <input type="checkbox"/> Insufficient confidence in CAE. <input type="checkbox"/> To obtain basis data for CAE <input type="checkbox"/> Replacement or improvement of existing Test. <input type="checkbox"/> Testing in Coldier. <input type="checkbox"/> Mandatory or Regulatory Certification <input type="checkbox"/> Development test for P&B <input type="checkbox"/> Not applicable. <input checked="" type="checkbox"/> Other: <u>SENSOR DEVELOPMENT</u>				2 - What is the expected Test Outcome: <input type="checkbox"/> Results will meet DVP&VOR requirements. <input type="checkbox"/> System Component will not meet Test specification <input type="checkbox"/> Unknown. <input type="checkbox"/> Above is Based on CAE? <input checked="" type="checkbox"/> Other: <u>SENSOR DEVELOPMENT</u>				

General Request Information

Test Mode

TAF: TC1834

~~####~~

Front Pole on vehicle center line 8"

Test Objectives: Cert (C) Verif (V) Dev (D) Audit (A)

REGULATORY:

- FMVSS 201 - Head Impact
- FMVSS 204 - Steering Wheel Displacement
- FMVSS 208 - Frontal Occupant Protection
- FMVSS 212 - Wind Shield Retention
- FMVSS 214 - Side Impact Protection
- FMVSS 219 - Windshield Zone Intrusion
- Film Analysis
- Template
- FMVSS 301 - Fuel System Integrity
- Rollover
- Pressure Check
- FMVSS 308 - NGV Fuel System Integrity
- ECE 12 (74/207/EEC) - Protection of the Driver Against Steering Mechanism
- ECE 38 Frontal Impact - Structural Performance
- ECE 34 Fuel System Integrity
- ECE 94 Step II Frontal Offset - Occupant Performance
- ECE 95 Step II 300mm Barrier Side Impact - Occupant Performance
- 98/79/EC - Frontal Offset
- EURO-NCAP

FORD AUTOMOTIVE OPERATIONS SAFETY DESIGN GUIDELINES:

- Front Impact FAO Safety Design Guidelines
- Offset Frontal FAO Safety Design Guidelines

OTHER:

- D Sensor Development
- Other, Specify: _____

Primary Test Vehicle Information

Use (Target/Bus):	BULLET
Model Year:	2000
Vehicle Program:	D185
Vehicle Name:	TAURUS
Body / Cab Style:	SEDAN
Build Number:	Build #
Tag Number:	307W0057
VIN Number:	VIN # 1FAFP5394A100034
Fuel System Rated Capacity (Gall):	18
Prototype Level:	Production
Drive Side:	LH

*IF 11/9/00
Build
10-25-2000*

**Special Prep/Build Instructions
Primary Vehicle**

TA#: TC1894

Special Build Instructions

- Remove Side View Mirrors
- Remove Headrests
- Remove Hood
- Remove Arm rest
- Strip Seat Belts
- Cut Off Brake & Clutch Pedal
- Color Contrast Under Hood Components

Other, Specify:

USE PARTS FROM 806V1284 FOR REBUILD

Pyro Restraints Usage

- Left Front Air Bag
- Right Front Air Bag
- Left Side Air Bag
- Right Side Air Bag
- Left Side Curtain
- Right Side Curtain
- Left Pyro Retractor
- Left Pyro Buckle
- Right Pyro Retractor
- Right Pyro Buckle

Other, Specify:

Remote Fire Times: (No fire time listed if sensor fired OR if no pyro restraints are used)

____ Single Stage or Stage 1 ____ Stage 2 ____ Pyro Belts

Remote back-up Fire Times:

____ Single Stage or Stage 1 ____ Stage 2 ____ Pyro Belts

Special Pre-Test Preparation

Other, Specify:

USE

**Occupant / ATD Request
Primary Vehicle**

TA#: TC1894

	<i>Occupant 1</i>	<i>Occupant 2</i>
Type	<u>50% Hybrid 2</u>	<u>50% Hybrid 2</u>
Instrumentation Level*	<u>UNINSTRUMENTED</u>	<u>UNINSTRUMENTED</u>
In-Vehicle Location	<u>LF</u>	<u>RF</u>
Verify: Seat Position Long	<u>MID TRACK</u>	<u>MID TRACK</u>
Seat Position Vert	<u>FULL DOWN</u>	<u>FULL DOWN</u>
Seat Back Angle	<u>28.1 degrees</u>	<u>28.1 degrees</u>
D-Ring Position	<u>N/A</u>	<u>N/A</u>
Positioning Procedure	<u>ST-14</u>	<u>ST-14</u>
Use Foot Rest	<u>N/A</u>	<u>N/A</u>
Take Seat Track Video	<u>N/A</u>	<u>N/A</u>
Special Positioning Instructions		
Dummy Adjustment (arm angle)	<u>N/A</u>	<u>N/A</u>
Occupant Belted	<u>NO</u>	<u>NO</u>

*RL
11-13-2000*

*Occupant 3
LR
Water Bottle*

*Occupant 4
RR
Water Bottle*

*See instrumentation request for detailed instrumentation information.

Test Conditions - Final Prep

TAF: TC1834

Final Prep Contacts

ONE of these MUST be present during weigh-up & final prep

	Test Engineer	Request Engineer	Build Coordinator
Name:	_____	John Fazio	Mark Dendel
Phone:	_____	33-31182	24-88577
Pager:	_____	JFAZ	MDEN

Test Weight

_____ Minimum Option Weight	GVWR: _____
<input checked="" type="checkbox"/> 33% Option Weight	Wheelbase: _____
_____ Maximum Option Weight	

Tire Pressure

Front: 30 psi Rear: 30 psi

Fuel System

Fuel Tank & System to Contain: none

<u>0</u> gallons	=	<u>0</u> %	x	<u>18.0</u> gallons
Fill Level	=	%	x	Capacity

Weight Targets

If required weight distribution is UNACHIEVABLE, please note allowable variances.

Curb Weight	Requested Test Weight	Acceptable Test Weight Variance		Actual Test Weight
		High (+)	Low (-)	
Front: _____	<u>2,988 lbs</u>	Front: <u>18 lbs</u>	<u>0 lbs</u>	Front: <u>2,992</u>
Rear: _____	<u>1,704 lbs</u>	Rear: <u>18 lbs</u>	<u>0 lbs</u>	Rear: <u>1,704</u>
Total: _____	<u>4,692 lbs</u>	Total: <u>25 lbs</u>	<u>0 lbs</u>	Total: <u>4,696 (24)</u>

Rated Luggage Load: 200 lbs 3/4

Simulate/Verify at Weigh-Up

Dummy Weight

On Board Camera Count

Weight Addition (Restrictions)

Do NOT place any weight in the following locations:

<input checked="" type="checkbox"/> Air Cleaner	<input checked="" type="checkbox"/> Engine	_____ Doors
<input checked="" type="checkbox"/> Battery	<input checked="" type="checkbox"/> Fan Shroud	_____ Foot Wells - Front
<input checked="" type="checkbox"/> Bottle - Coolant	<input checked="" type="checkbox"/> Headlamp Opngs	_____ Foot Wells - Rear
<input checked="" type="checkbox"/> Bottle - Washer	<input checked="" type="checkbox"/> Radiator	_____ Quarter Panels
		_____ Trunk Floor

Other: _____

Ride Heights

Measure @ Test Weight

Front: Level Rocker to Ground

Rear: Level Rocker to Ground

Measure

From: _____

To: _____

Additional Remarks

_____ DO NOT fill tank with stoddard until weigh-up

Film Analysis & Photographic Services Request

Front Impact Film Analysis

TA#: TC1834

- Head WRT Vehicle
- Shoulder WRT Vehicle
- Rocker WRT Ground

Other, Specify:

Still Photography

- Pre Test Documentation Photographs
- Post Test Documentation Photographs

High Speed Photographic Requirements

- 1 Copies of High Speed Film Required
- Copies of High Speed Film Required in VHS Format
- Digitization of Driver/ Passenger Kinematics Format

High Speed Cameras for Front Impact

On-Board Vehicle

- Onboard - LEFT Occupant Over Shoulder
- Onboard - RIGHT Occupant Over Shoulder
- Onboard - Driver "D" Ring
- Onboard - Driver Retractor (Lower)
- Onboard - Driver Lower Torso to VP Contact, From Rear, Cross Car
- Onboard - Passenger Lower Torso to VP Contact, From Rear, Cross Car
- Onboard - Passenger "D" Ring
- Onboard - Passenger Retractor (Lower)
- Onboard - Driver Door (Left Knee to Bolster)
- Onboard - Passenger Door (Knees to VP)
- Onboard - Photo Sonic (Intermediate Shaft) - From Floor
- Onboard - Photo Sonic (Intermediate Shaft) - Side View From Tunnel
- Onboard - Fiber Optics (Intermediate Shaft) - From Floor
- Onboard - Fiber Optics (Intermediate Shaft) - Side View From Tunnel

Floor Coverage

- Left Occupant Over Shoulder, On tripod, from rear, cross car
- Right Occupant Over Shoulder, On tripod, from rear, cross car
- Left Occupant Over Shoulder, In lights
- Right Occupant Over Shoulder, In lights
- Overall Left
- Barrier to B-Pillar Left
- Dummy Kinematics & Velocity Left
- Overall Right
- Barrier to B-Pillar Right
- Dummy Kinematics & Velocity Right
- Top of Barrier - Overall View of Windshield
- Top of Barrier - Driver
- Top of Barrier - Passenger
- Left Front Rail Extension Bumper Close-up
- Right Front Rail Extension Bumper Close-up

Overhead Coverage

- Overhead - Overall
- Overhead - A-Pillar Forward
- Steering Column Displacement
- Scale
- Reaction

Pit Coverage

- Pit - Overall
- Pit - A-Pillar Forward
- Pit - L/R Frame Horns (Criscross)
- Pit - L/R Front Rails #1 XAM Rearward
- Pit - Steering Gear Close-up
- Pit - Fuel Tank
- Pieces of Plex-Glass to be removed from pit.

All Other High Speed Photography

-
-

Instrumentation and Data Processing Request

TAP: TO1034

Primary Vehicle Structural Instrumentation - Frontal Impact

ACCELEROMETERS:				
		Long	Vert	Lat
<u>X</u>	Engine/Trans Upper	<u>X</u>	<u>X</u>	<u>X</u>
<u>X</u>	Engine/Trans Lower	<u>X</u>	<u>X</u>	<u>X</u>
<u>X</u>	Left Rocker at A-Pillar	<u>X</u>	<u>X</u>	<u>X</u>
<u>X</u>	Right Rocker at A-Pillar	<u>X</u>	<u>X</u>	<u>X</u>
<u>X</u>	Left Rocker at B-Pillar	<u>X</u>	<u>X</u>	<u>X</u>
<u>X</u>	Right Rocker at B-Pillar	<u>X</u>	<u>X</u>	<u>X</u>
_____	Left Rocker at C-Pillar	_____	_____	_____
_____	Right Rocker at C-Pillar	_____	_____	_____
_____	Left Frame at A-Pillar	_____	_____	_____
_____	Right Frame at A-Pillar	_____	_____	_____
_____	Left Frame at B-Pillar	_____	_____	_____
_____	Right Frame at B-Pillar	_____	_____	_____
_____	Left A-Pillar Inside	_____	_____	_____
_____	Right A-Pillar Inside	_____	_____	_____
_____	Centerline Tunnel @ Dash	_____	_____	_____
_____	Centerline Tunnel Between F/Seats	_____	_____	_____
_____	Centerline Tunnel @ Seat Long Centerline	_____	_____	_____
_____	#1 Crossmember Bottom	_____	_____	_____
_____	#2 Crossmember Bottom	_____	_____	_____
<u>X</u>	Next to Fuel Inertia Switch	<u>X</u>	<u>X</u>	<u>X</u>
_____		_____	_____	_____
_____		_____	_____	_____
_____		_____	_____	_____
_____		_____	_____	_____
_____		_____	_____	_____
_____		_____	_____	_____
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_____		_____	_____	_____
_____		_____	_____	_____
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_____		_____	_____	_____
_____		_____	_____	_____
_____		_____	_____	_____
_____		_____	_____	_____
_____		_____	_____	_____
_____		_____	_____	_____
_____		_____	_____	_____

OTHER STRUCTURAL ACCELS:				
		Long	Vert	Lat
_____		_____	_____	_____
_____		_____	_____	_____

Primary Vehicle Systems Instrumentation

TAP: TC1834

SENSOR ACCELS:

See Sensor Map

MONITOR AIR BAG SENSORS:

See Sensor Map
 Monitor Closure of Each Specified Sensor
 Monitor Closures of Single Pt Elect Sensor

MONITOR AIR BAGS STATUS:

Two Stage Air Bags
 Driver Squib Voltage
 Driver Squib Current
 Driver Bag Pressure
 Passenger Squib Voltage
 Passenger Squib Current
 Passenger Bag Pressure
 Passenger Initiator Pressure

STEERING COLUMN:

Stroke Break Wire
 L & R Shear Modulus Break Wires
 Tilt Mechanism Break Wires
 Steering Column String Pot
 Load Cell (3 Axis)

SWITCHES:

Engine to Rad Support left
 Engine to Rad Support center
 Engine to Rad Support right
 Other _____

FUEL SYSTEM:

Inertia Fuel System Cut-Off Switch

VEHICLE STRING POTS:

OTHER VEHICLE ELECTRICAL SYSTEM INSTRUMENTATION:

RESTRAINT LOADS:

Left Pyro-Technic Buckle Squib Voltage
 Left Pyro-Technic Buckle Squib Current
 Right Pyro-Technic Buckle Squib Voltage
 Right Pyro-Technic Buckle Squib Current
 Lightweight Left Lap Belt at Anchor Load
 Lightweight Left Torso Belt at Retr. Load
 Lightweight Left Torso Belt at D-ring Load
 Lightweight Right Lap Belt at Anchor Load
 Lightweight Right Torso Belt at Retr. Load
 Lightweight Right Torso Belt at D-ring Load

Dummy Instrumentation - Internal

50% Hybrid 2

LF

ACCELS:

<input type="checkbox"/> Head C.G.	<input type="checkbox"/> Long	<input type="checkbox"/> Vert	<input type="checkbox"/> Lat
<input type="checkbox"/> Chest	<input type="checkbox"/> Long	<input type="checkbox"/> Vert	<input type="checkbox"/> Lat
<input type="checkbox"/> Pelvis	<input type="checkbox"/> Long	<input type="checkbox"/> Vert	<input type="checkbox"/> Lat

LOAD CELLS:

<input type="checkbox"/> Neck Upper Load	<input type="checkbox"/> Fx	<input type="checkbox"/> Fy	<input type="checkbox"/> Fz
<input type="checkbox"/> Neck Upper Moment	<input type="checkbox"/> Mx	<input type="checkbox"/> My	<input type="checkbox"/> Mz
<input type="checkbox"/> Neck Lower Load	<input type="checkbox"/> Fx	<input type="checkbox"/> Fy	<input type="checkbox"/> Fz
<input type="checkbox"/> Neck Lower Moment (no Mz on 5%)	<input type="checkbox"/> Mx	<input type="checkbox"/> My	<input type="checkbox"/> Mz
<input type="checkbox"/> Thoracic Load	<input type="checkbox"/> Fx	<input type="checkbox"/> Fy	<input type="checkbox"/> Fz
<input type="checkbox"/> Thoracic Moment	<input type="checkbox"/> Mx	<input type="checkbox"/> My	<input type="checkbox"/> Mz
<input type="checkbox"/> Lower Lumbar Load	<input type="checkbox"/> Fx	<input type="checkbox"/> Fy	<input type="checkbox"/> Fz
<input type="checkbox"/> Lower Lumbar Moment	<input type="checkbox"/> Mx	<input type="checkbox"/> My	<input type="checkbox"/> Mz
<input type="checkbox"/> L/Femur Load	<input type="checkbox"/> Fx	<input type="checkbox"/> Fy	<input type="checkbox"/> Fz
<input type="checkbox"/> L/Femur Moment	<input type="checkbox"/> Mx	<input type="checkbox"/> My	<input type="checkbox"/> Mz
<input type="checkbox"/> R/Femur Load	<input type="checkbox"/> Fx	<input type="checkbox"/> Fy	<input type="checkbox"/> Fz
<input type="checkbox"/> R/Femur Moment	<input type="checkbox"/> Mx	<input type="checkbox"/> My	<input type="checkbox"/> Mz
<input type="checkbox"/> L/Up/Tibia Load	<input type="checkbox"/> Fx	<input type="checkbox"/> Fy	<input type="checkbox"/> Fz
<input type="checkbox"/> L/Up/Tibia Moment	<input type="checkbox"/> Mx	<input type="checkbox"/> My	<input type="checkbox"/> Mz
<input type="checkbox"/> R/Up/Tibia Load	<input type="checkbox"/> Fx	<input type="checkbox"/> Fy	<input type="checkbox"/> Fz
<input type="checkbox"/> R/Up/Tibia Moment	<input type="checkbox"/> Mx	<input type="checkbox"/> My	<input type="checkbox"/> Mz
<input type="checkbox"/> L/Low/Tibia Load	<input type="checkbox"/> Fx	<input type="checkbox"/> Fy	<input type="checkbox"/> Fz
<input type="checkbox"/> L/Low/Tibia Moment	<input type="checkbox"/> Mx	<input type="checkbox"/> My	<input type="checkbox"/> Mz
<input type="checkbox"/> R/Low/Tibia Load	<input type="checkbox"/> Fx	<input type="checkbox"/> Fy	<input type="checkbox"/> Fz
<input type="checkbox"/> R/Low/Tibia Moment	<input type="checkbox"/> Mx	<input type="checkbox"/> My	<input type="checkbox"/> Fz

POTENTIOMETERS:

<input type="checkbox"/> Chest Deflection		<input type="checkbox"/> Ball Bearing	<input type="checkbox"/> Std	<input type="checkbox"/> Diap
<input type="checkbox"/> Left Knee Slider	<input type="checkbox"/> Ball Bearing	<input type="checkbox"/> Std	<input type="checkbox"/> Std	<input type="checkbox"/> Diap
<input type="checkbox"/> Right Knee Slider	<input type="checkbox"/> Ball Bearing	<input type="checkbox"/> Std	<input type="checkbox"/> Std	<input type="checkbox"/> Diap

OTHER INTERNAL DUMMY INSTRUMENTATION:

<input type="checkbox"/> L/R Femur Accels (not on 5% dummies)	<input type="checkbox"/> Long		
<input type="checkbox"/> L/R Ankle soft bumper to foot stem			

Dummy Instrumentation - External

CONTACT SWITCHES:

<input type="checkbox"/> L / Knee Contact
<input type="checkbox"/> R / Knee Contact
<input type="checkbox"/> Header

STRING POTS:

<input type="checkbox"/> Pelvis
<input type="checkbox"/> L / Knee
<input type="checkbox"/> R / Knee

TA#: TC1534

Dummy Instrumentation - Internal

80% Hybrid 2

RF

ACCELS:

___ Head C.G.
___ Chest
___ Pelvic

___ Long ___ Vert ___ Lat
___ Long ___ Vert ___ Lat
___ Long ___ Vert ___ Lat

LOAD CELLS:

___ Neck Upper Load
___ Neck Upper Moment
___ Neck Lower Load
___ Neck Lower Moment (no Mz on 8%)
___ Thoracic Load
___ Thoracic Moment
___ Lower Lumbar Load
___ Lower Lumbar Moment
___ L/Femur Load
___ L/Femur Moment
___ R/Femur Load
___ R/Femur Moment
___ L/Up/Tibia Load
___ L/Up/Tibia Moment
___ R/Up/Tibia Load
___ R/Up/Tibia Moment
___ L/Low/Tibia Load
___ L/Low/Tibia Moment
___ R/Low/Tibia Load
___ R/Low/Tibia Moment

___ Fx ___ Py ___ Fz
___ Mx ___ My ___ Mz
___ Fx ___ Fy ___ Fz
___ Mx ___ My ___ Mz
___ Fx ___ Fy ___ Fz
___ Mx ___ My ___ Mz
___ Fx ___ Fy ___ Fz
___ Mx ___ My ___ Mz
___ Fx ___ Fy ___ Fz
___ Mx ___ My ___ Mz
___ Fx ___ Fy ___ Fz
___ Mx ___ My ___ Mz
___ Fx ___ Fy ___ Fz
___ Mx ___ My ___ Mz
___ Fx ___ Fy ___ Fz
___ Mx ___ My ___ Mz

POTENTIOMETERS:

___ Chest Deflection
___ Left Knee Slider ___ Ball Bearing
___ Right Knee Slider ___ Ball Bearing

___ Disp
___ Disp
___ Disp

OTHER INTERNAL DUMMY INSTRUMENTATION:

___ L/R Femur Accels (not on 8% dummies)
___ L/R Ankle soft bumper to foot stem ___ Long

Dummy Instrumentation - External

CONTACT SWITCHES:

___ L / Knee Contact
___ R / Knee Contact
___ Header

STRING POTS:

___ Pelvic
___ L / Knee
___ R / Knee

List of Test Contacts

TA#: TC1834

	Last name	Phone	Pager	Profs
Requestor	John Fazio	32-91162	JFAZ	JFAZIO1
Approving supervisor	Kirk Arthur	36-05158	KART	KARTHURS
Build coordinator	Mark Dendel	24-88577	MDEN	MDENDEL
Test engineer				
Sensor Engineer	Abe Philip	69-41134	APHI	APHILIP
Other	Mary Wroten	33-71739	MWRO	MWROTEN

	Last name	Phone	Pager	Profs
Seats				
Instrument panel				
Restraints				
Air bag (driver)				
Air bag (passenger)				
Steering column				

Revisions List

TAM TC1834

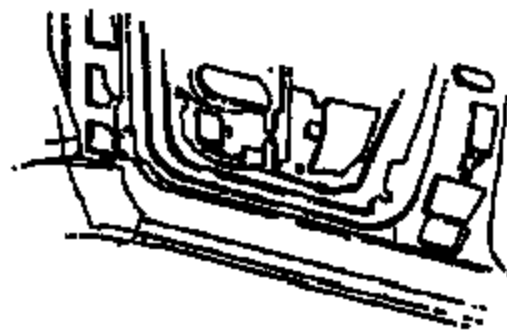
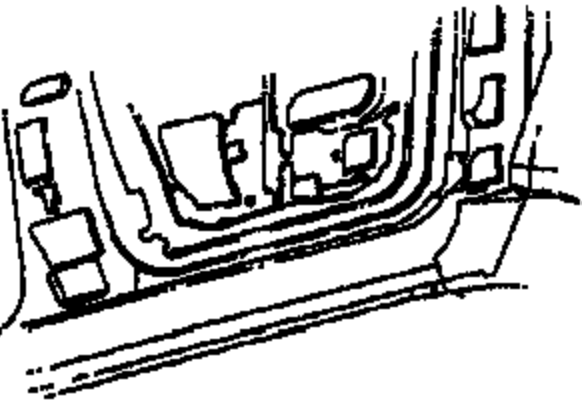
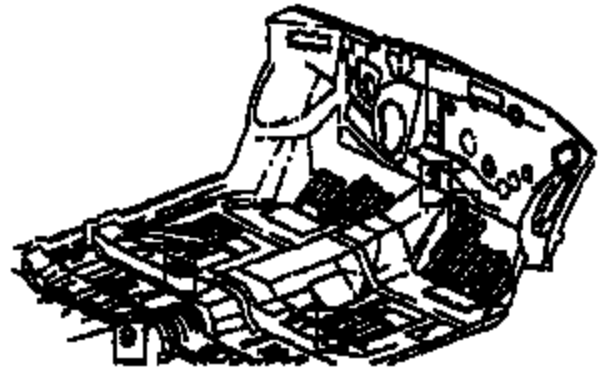
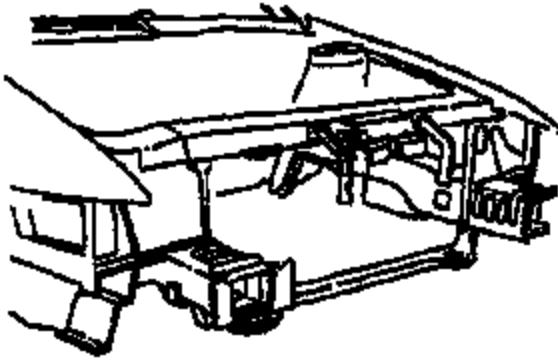
DATE	AUTHORIZATION	DESCRIPTION	PAGE #'s

Program: 2002 D166
 Vehicle ID: 307W067
 Build level: CP D166
 Test Mode: 30mph pole

SENSOR MAP

TC1834

Engineer: Abe Philip
 Phone #: 994-1134
 Date: 10/24/00
 Time: 4:01pm



Sensor Channels only

Location Name	Type	Output	Nominal [V]	Max/Min	Serial #
1 L/C FRONT RND SUPPORT_BN	accel	LONG			Rear Front Crash Sensor
2 C/L_TNLR_DASH_RCR	accel	TRIAK			On RCR
2a C/L_TNLR_DASH_V191	Viatec RCR1	Sensor	2.5 +/- .5	2.0/3.0	SV005-1
2b C/L_TNLR_DASH_V192	Viatec RCR2	Sensor	2.5 +/- .5	2.0/3.0	SV005-2
2c C/L_TNLR_DASH_V193	Viatec RCR3	Sensor	N/A - Not Required		SV005-3
2d C/L_TNLR_DASH_V194	Viatec RCR4	Sensor	2.5 +/- .5	2.0/3.0	SV005-4
2e C/L_TNLR_DASH_V195	Viatec RCR5	Sensor	N/A - Not Required		SV005-5
2f C/L_TNLR_DASH_V196	Viatec RCR6	Sensor	N/A - Not Required		SV005-6
2g C/L_TNLR_DASH_V197	Viatec RCR7	Sensor	2.5 +/- .5	2.0/3.0	SV005-7
2h C/L_TNLR_DASH_V198	Viatec RCR8	Sensor	N/A - Not Required		SV005-8
5 L/F FLOOR PAN @ SE KICK CTR_BN	accel	TRIAK			Rear Side Crash Sensor
6 R/F FLOOR PAN @ SE KICK CTR_BN	accel	TRIAK			Rear Side Crash Sensor
8 C/L_TNLR_DASH_BN	accel	TRIAK			Rear RCR
9 C/L_TNLR_SEATBELT_F/SEATS_BN	accel	TRIAK			

Contact: Ferdie Abe Philip 994-1134
 Viatec: Andy Kiddle 735-7606

NOTE: Serial numbers will be updated as parts arrive.



CRASH NUMBER 12068

PAGE 1 OF 1
CREATED: 11/14/00 AIR/PT

BARRIER QUALITY ASSURANCE AND TRACKING FORM

DATA ENGINEER:	Name not on list	WB REVIEW ENGINEER:	Odc	TEST DUMMY INFORMATION					
TEST ORDER NUMBER:	TC1834	SIZE:	SB	FOB NO.	TYPE	AA	BLIS	TYPE	ORDER
TEST ENGINEER:		TEST DESCRIPTION:	90 DEG. FRONT FIXED CENTER POLE	L/P	TYPE				
VEHICLE TYPE:	D-186	IMPACT TYPE:	SINGLE VEHICLE TEST	R/P	TYPE				
REQUESTED SPEED:	30 MPH	TEST TYPE:	DV	L/N	ORDER		Y		
CRASH DATE:	11/13/00	OK TO STRIP DATE:	11/14/00						
CRASH TIME:	13:25	OK TO STRIP TIME:	08:19						
TOTAL CHANNELS:	47	DUMMY CHANNELS:	0	T/R	ORDER		Y		

12068

CHANNEL IDENTIFICATION			EQUIPMENT					ANOMALIES										DESCRIPTION	RESOLUTION	CAT						
TEST CHANNEL	LOCATION	AZIM	TRANSDUCER	EXTENSION CABLE	CABLE	CABLE NUMBER	CABLE CHANNEL	NO DATA	SPREADS DATA	CURRENT FROM SENS	LEVEL SHIFT	MISSED FULL SCALE	UNUSUAL BEHAVIOR	IMPERFECTLY	SIGNAL	SIGNAL BOARDING	NOISE	DATA INTERRUPT	DATA DISCREP	MISPLACED POLARITY	LATE TIME-SENS	DATA DISCREP REMARKS	TECHNICIAN REMARKS	CLASS	NO	
4	ENGINE TRANS TOP	LONG	43096		BRM-2	3243	2					X										54-54ms, block hit, shorted	Reducer: shorted.	2	1	
5	ENGINE TRANS TOP	WEST	42442		BRM-3	3243	3					X										55-54ms, block hit, level shift	Reducer: bad.	2	2	
6	ENGINE TRANS TOP	EAST	38056		BRM-4	3243	4					X										55-54ms, block hit, shorted	Reducer: shorted.	2	1	

CRTS 0012068

DOWNLOAD BOX NUMBER, POWER CABLE, COMMUNICATIONS CABLE (IF THERE WAS ANY) ONE SENSING



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 Schedule No. 4-7-12
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Inter Office

Research and Vehicle Technology

June 27, 2001

To: Manager

Subject: Crash Test No. 12093, T-01831 Test Report Corrections, R/1

The final report of the subject crash test was corrected as follows:

Sheet 4 Occupant Injury Data (FMVSS 208) - The Dummy Neck Upper Load was changed from:

	<u>L.F. Dummy</u>	<u>R.F. Dummy</u>
WTE	0.7245	0.3014
NTF	0.4221	0.1775
NCE	0.3938	0.3436
NOF	0.1642	0.1451

to:

	<u>L.F. Dummy</u>	<u>R.F. Dummy</u>
WTE	0.7245	0.1837
NTF	0.2042	0.1775
NCE	0.3938	0.4509
NOF	0.1089	0.1451

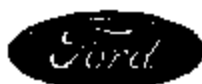
M. A. DeShong

**M. A. DeShong
 Operations Engineering Section
 Safety Laboratories Department**

M. Hamilton

**Concur: M. Hamilton
 Section Supervisor
 Operations Engineering Section**

corr.12093



"RECORD COPY"
Schedule No. 4-7-12
Retain Until 2021

FINAL TEST REPORT

CONFIDENTIAL

**Global Test Operations
Research and Vehicle Technology**

TO:	J. Pezlo	Test Order No.	T-C1831
		Work Task W. O. No.	F17
		Test Date	12/8/00
		Date Reported	2/16/01
		Sheet	1 of 5

SUBJECT: Crash Test 12093 (90° Front Fixed Barrier Impact at 30.3 ± 0.4 mph, 48.8 ± 0.6 km/h) – 2000 Sable (D186) 4-Door Sedan

REQUESTED BY: Vehicle Crash Safety Department, Research and Vehicle Technology – J. Pezlo

OBJECT: To obtain development data relative to FMVSS 208.

SUMMARY OF TEST RESULTS: See Section 1.0 for injury criteria data.

M. Hamilton
Conour: M. Hamilton
Section Supervisor
Operations Engineering Section

R. Barnhart
R. Barnhart
Engineering Technologist

VEHICLE DATA:

Make and Model 2000 Saab (D186) 4-Door Sedan (Production Vehicle)

ID Numbers 1MEFM3385YG600018, 307-W-148

Power Train 3.0L, Duratec, Automatic Transmission

Rear Tank(s) Usable Capacity: 18.0 gal. (68.1L)
Test Condition: Removed

Front Seat(s) Type: Bucket
Cover: Leather
Tracks/Position: LF: 6-Way Power/Full Forward
LF: Vertical/Full
RF: 6-Way Power/Full Forward
RF: Vertical/Full
Seat Backs/Position: Adjustable/LF: 28.0° Rear of Vertical,
RF: 21.1° Rear of Vertical
Head Restraints/Position: Adjustable/Down

Restraint System LF: 3-Point Continuous Loop Active Belt with
Pyrotechnic Buckle and Steering Wheel Air Bag
RF: 3-Point Continuous Loop Active Belt with
Pyrotechnic Buckle and Instrument Panel Air Bag

Occupants LF & RF: 5th Percentile Female, Hybrid III,
Instrumented

Test Weight Front: 2772 lb (1031 kg)
Rear: 1585 lb (719 kg)
Total: 3857 lb (1750 kg)

Tires Front: P215/60R16 30 psi (207 kPa)
Rear: P215/60R16 30 psi (207 kPa)
Spars: Removed

Significant Content or Accessories: Air Conditioning, Power Steering, Power Brakes, Tilt Steering Wheel

GENERAL TEST COMMENTS:**1. Test Procedure**

The test was performed according to the following Corporate test procedure(s):

Occupant Crash Protection, CBP-ST-25 dated March 3, 1998.

1.1 Significant Deviations

The fuel system did not contain accident.

2. Remarks

Crash movies, pre- and post- crash still images of the test vehicle and copies of this report are available through the Operations Engineering Section, Safety Laboratories Department, GTO. The crash still images are stored and archived on CD ROMs. The file names of the still images are listed under crash number and a three digit sequence number which are 12093001 through 12093071.

TEST RESULTS:**1.0 Occupant Injury Data (FMVSS 208)**

	<u>L. F. Dummy</u>	<u>R. F. Dummy</u>
Head Injury Criteria (HIC) @ 15 ms	241	255
Interval t1	56 ms	67 ms
Interval t2	71 ms	82 ms
Dummy Neck Upper Load:		
NIE	0.7245	0.1837
NIF	0.2052	0.1775
NCE	0.3935	0.4509
NCF	0.1089	0.1451
Chest resultant acceleration level at 3 ms cumulative duration	40 g	34 g
Chest Deflection (Hybrid III)	1.3 in	0.9 in
Peak axial compression load:		
Left Sensor	293 lb	629 lb
Right Sensor	424 lb	322 lb
Peak axial tension load:		
Left Sensor	117 lb	51 lb
Right Sensor	181 lb	48 lb
Dummy contained within the vehicle during the crash	Yes	Yes

Time histories of the dummy instrumentation are included in this report.

Time histories of the dummy dynamic displacements obtained from Film Analysis are included in this report.

Time histories of the air bag sensor(s) are included in this report.

Time histories of any requested derived data (i.e. integrations, etc.) were given to the requesting activity and are not included in this report.

TEST RESULTS: (Cont'd)**2.0 Vehicle Crash Film Analysis and/or Instrumentation Data**

	<u>Maximum Dynamic Longitudinal Crush</u>	
	<u>in.</u>	<u>(mm)</u>
Left Side	21.2	(539)
Right Side	23.5	(597)

Time histories of the vehicle accelerations and other instrumentation are included in this report.

Time histories of vehicle dynamic displacements obtained from Film Analysis are included in this report.

Static displacements of various body points obtained by Dimensional Analysis are included in this report.

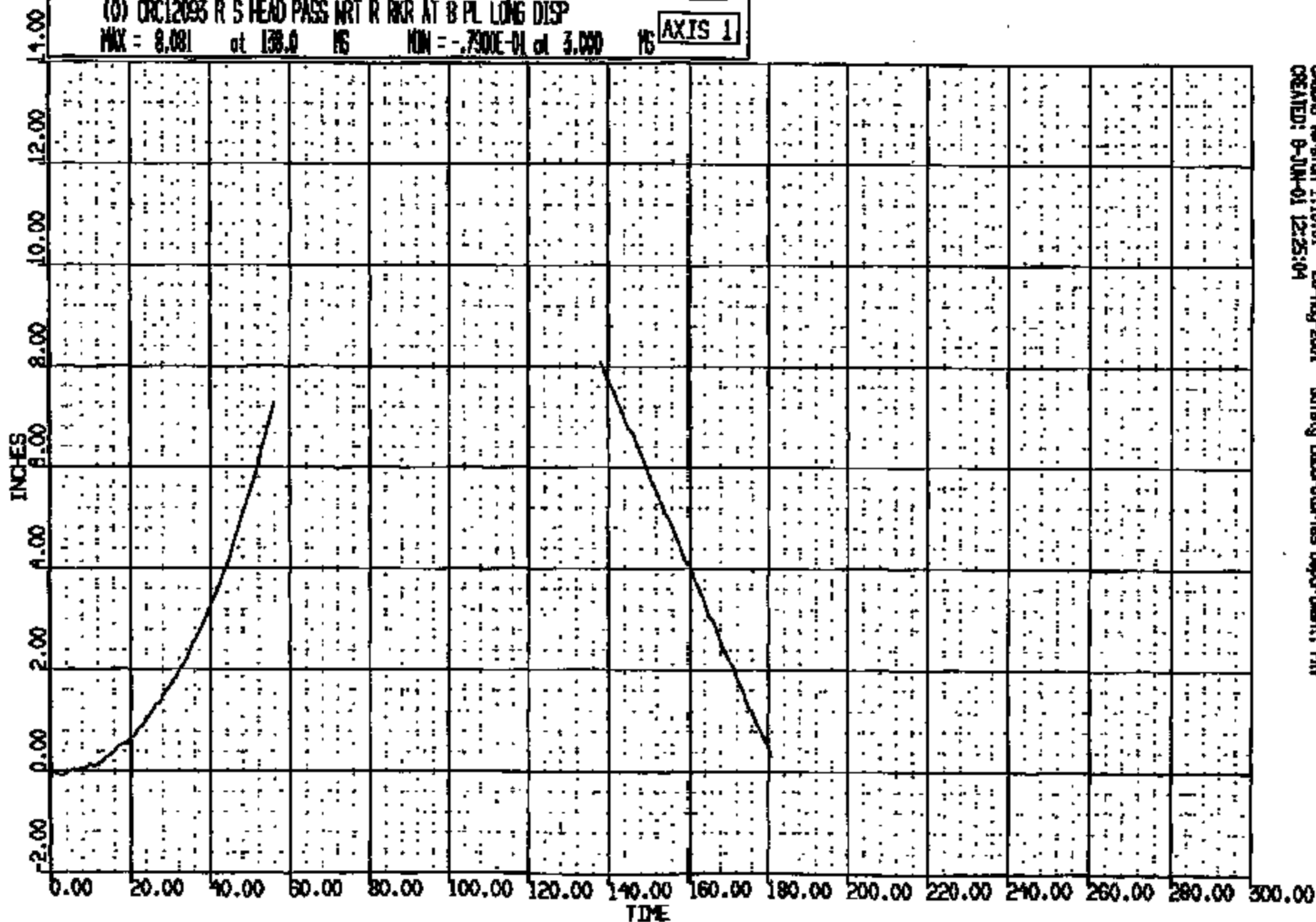
Time histories of any requested derived data (i.e. integrations, etc.) were given to the requesting activity and are not included in this report.

CR: R: 12093 TO: TC1851 DATE: 001206 09:29:25
2000 DISG

(0) CR12093 R S HEAD PASS WRT R RGR AT B PL LONG DISP

MAX = 8.081 at 138.0 MS MIN = -.730E-01 at 3.000 MS

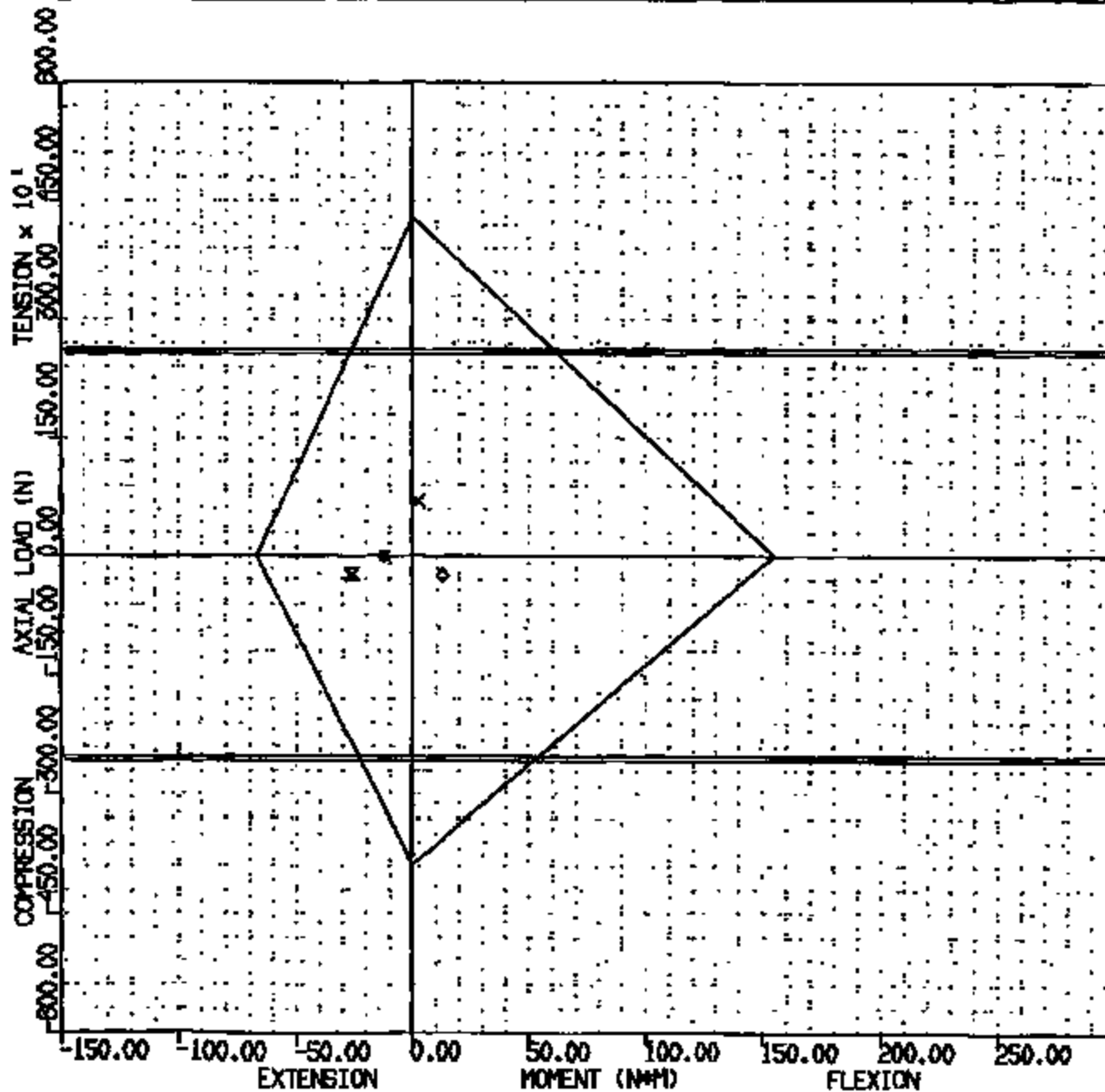
AXIS 1



CARDIS Version 1.18.01 - 29-May-2001 Safely Laboratories Department, PAW
CREATED: 8-JUN-01 12:25:04

CRTS 0012093

71-V88208 N1J NECK INJURY CRITERIA CORRIDOR PLOT
 OR R: 12098 TO: TC1981 DATE: 001208 08:28:28
 6TH X DUMMY IN POSITION TEST
 CR12098T_R/F_DUMMY_NECK_UPPER_LOAD_FZ_800N
 CR12098T_R/F_DUMMY_NECK_UPPER_LOAD_MY_800N [CORR]

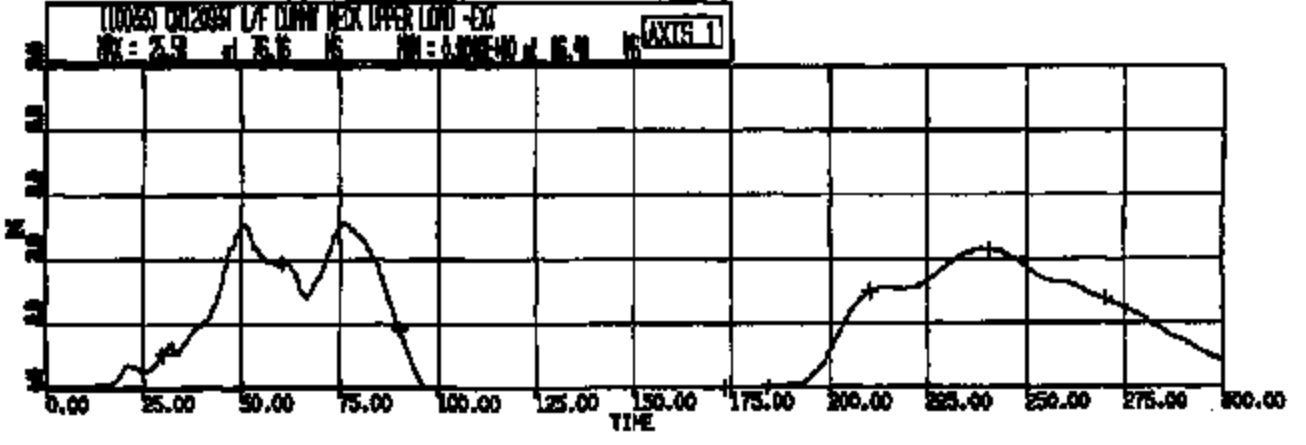
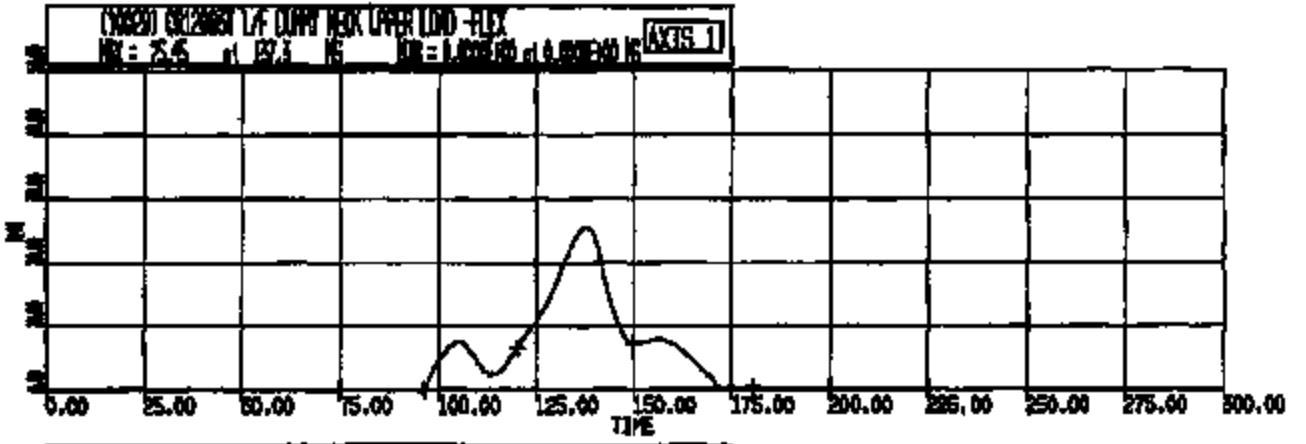
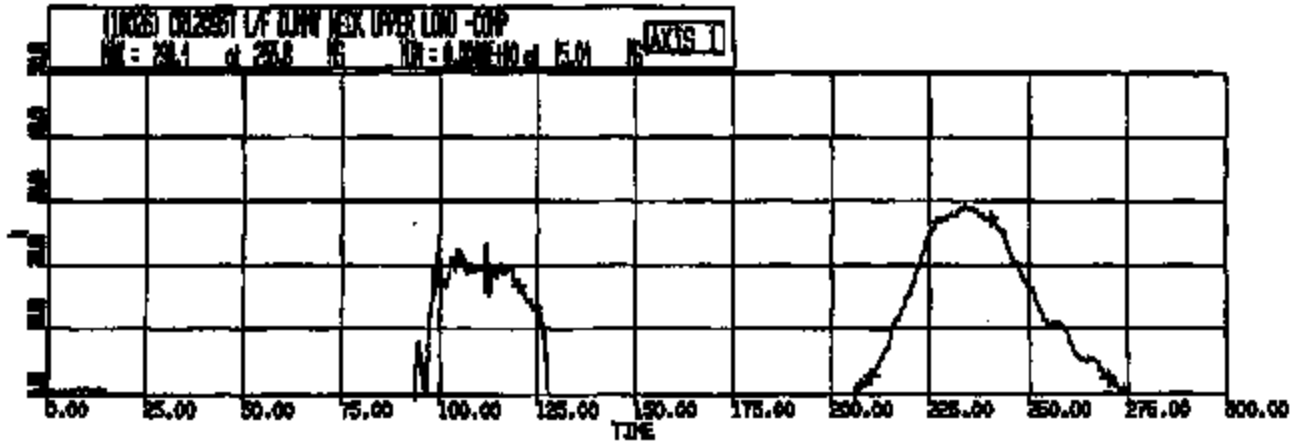
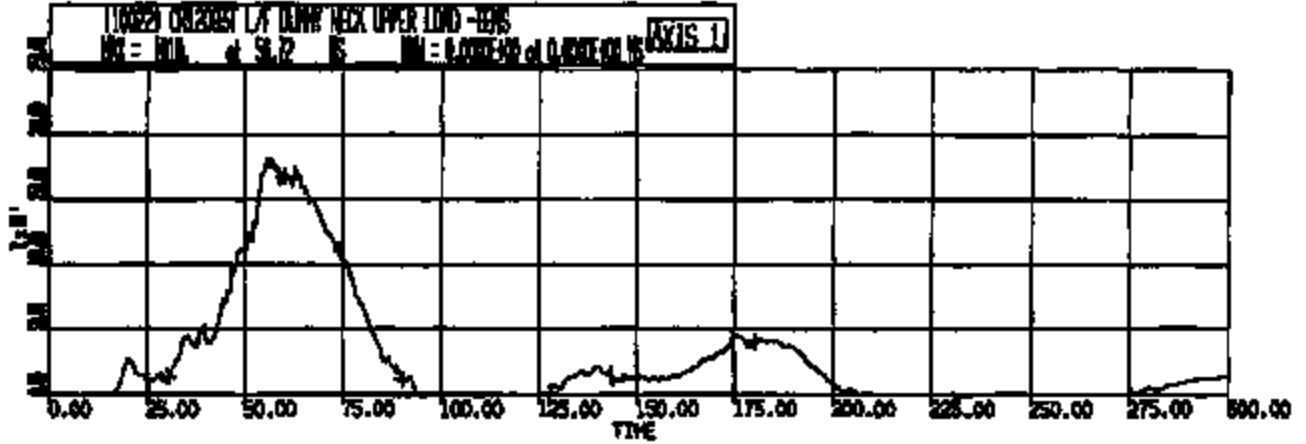


FOREIGN	
AKIS 1	(10288, 10288) NECK TENSION EXTENSION @ TIME OF MAX NIE MAX = 1.279 at -12.29 MIN = 1.279 at -12.29
AKIS 1	(10281, 10280) NECK TENSION FLEXION @ TIME OF MAX NIF MAX = 685.3 at 2.379 MIN = 685.3 at 2.379
AKIS 1	(10287, 10288) NECK COMPRESSION EXTENSION @ TIME OF MAX NIE MAX = 233.1 at -26.18 MIN = 233.1 at -26.18
AKIS 1	(10285, 10280) NECK COMPRESSION FLEXION @ TIME OF MAX NIF MAX = 238.3 at 12.97 MIN = 238.3 at 12.97
AKIS 1	(0,0) NLT CORRIDOR MAX = 4287. at 0.0000E+00 MIN = 3880. at 0.0000E+00
AKIS 1	(0,0) PEAK TENSION CRITERIA MAX = 2620. at -150.0 MIN = 2620. at -150.0
AKIS 1	(0,0) PEAK COMPRESSION CRITERIA MAX = 2520. at -150.0 MIN = 2520. at -150.0
AKIS 1	(0,0) X AND Y AXIS MAX = 6000. at 0.0000E+00 MIN = 6000. at 0.0000E+00

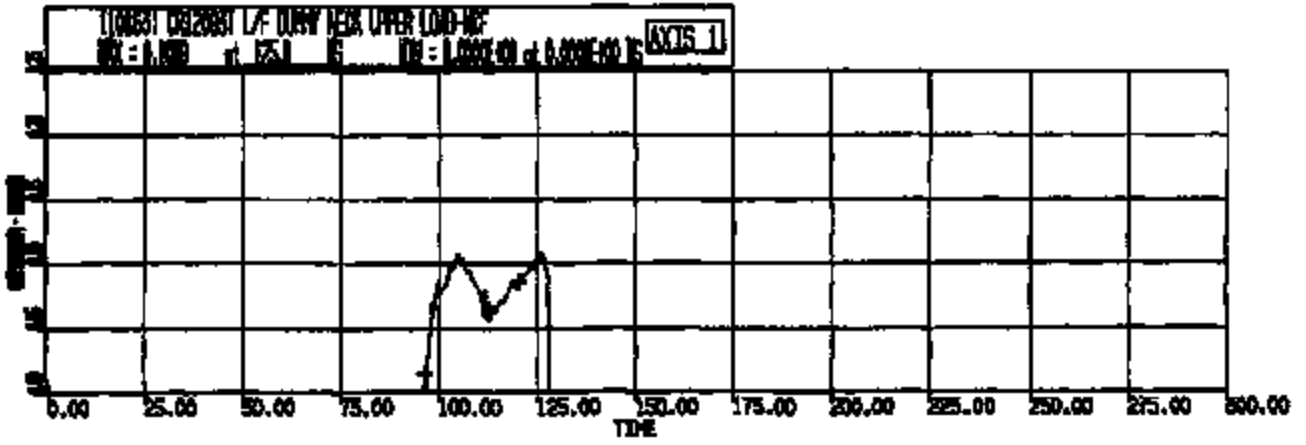
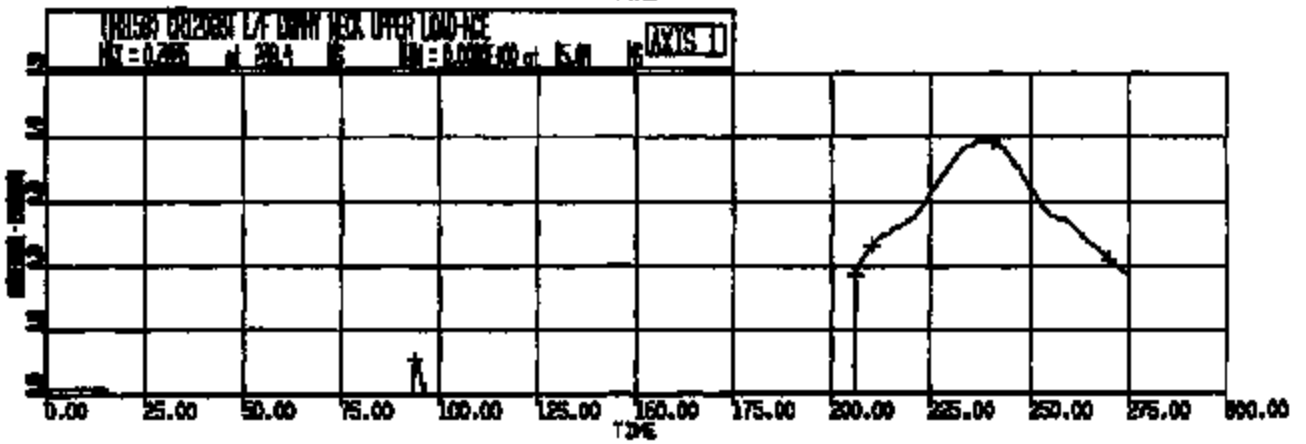
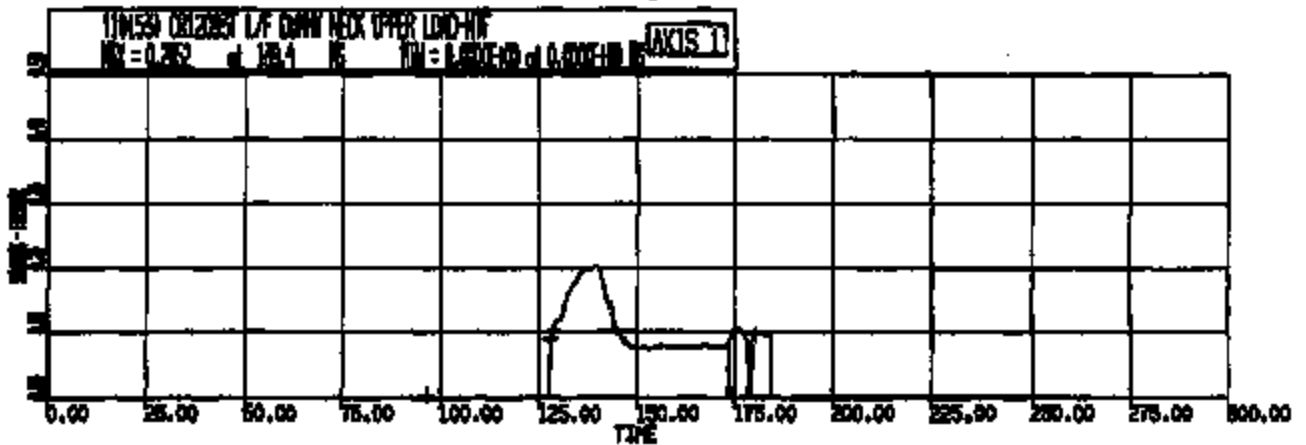
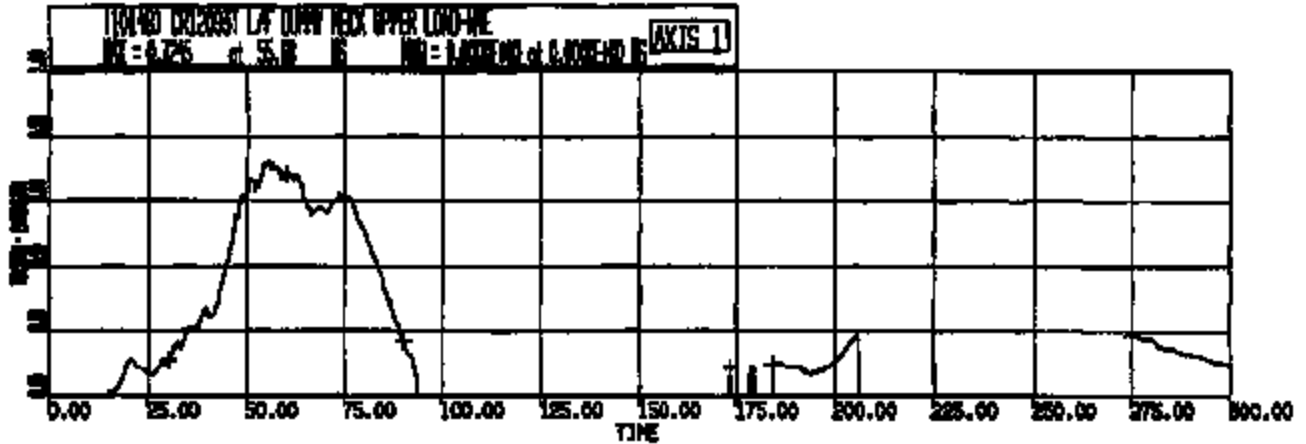
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CRTS 0012093

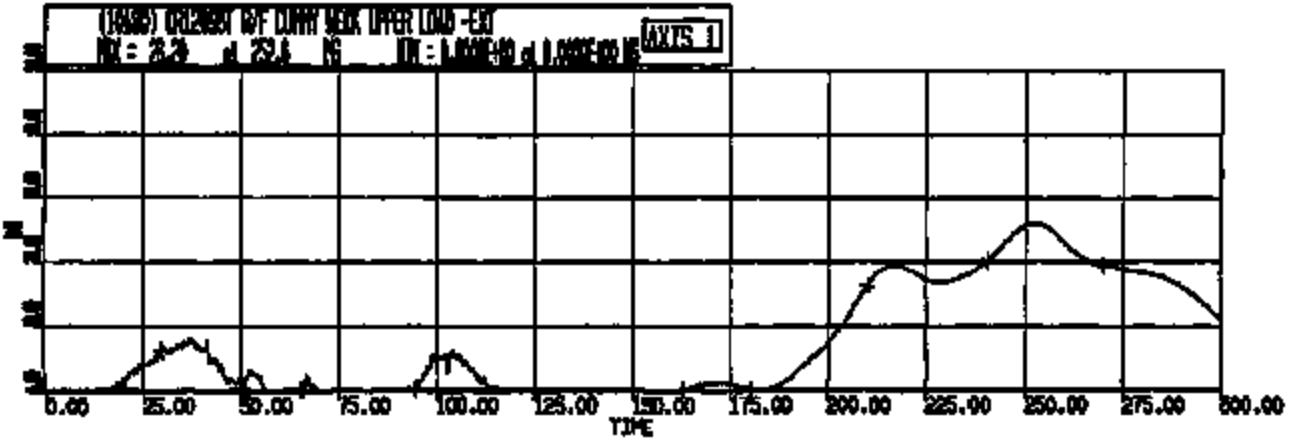
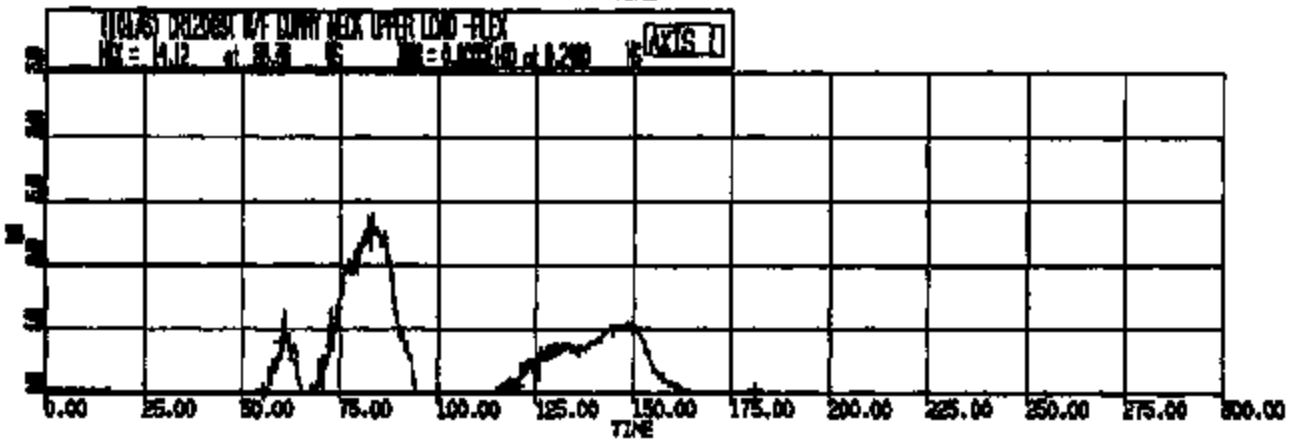
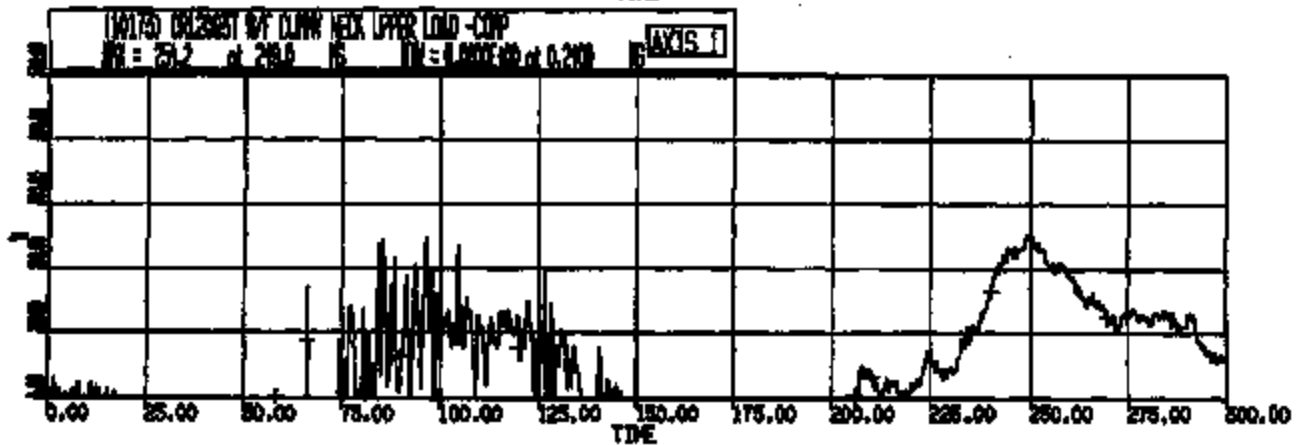
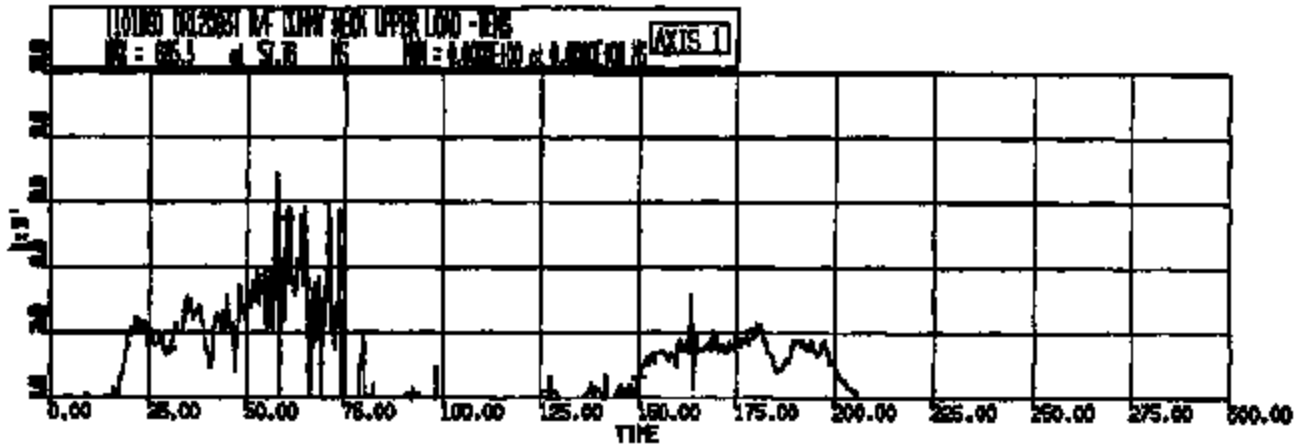
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 GR PR: 12088 TO: TC1831 DATE: 001208 08:28:28
 STM X DJMMY IZ POSITION TEST
 CR12088T L F DJMMY NECK UPPER LOAD_FZ_500N
 CR12088T L F DJMMY NECK UPPER LOAD_MY_500N
 CR12088T L F DJMMY NECK UPPER LOAD_MZ_500N



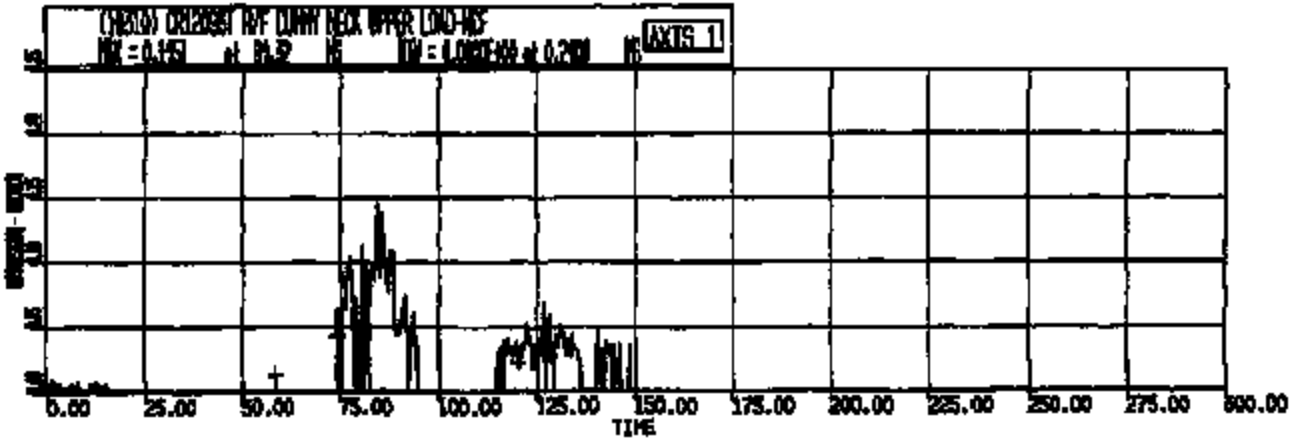
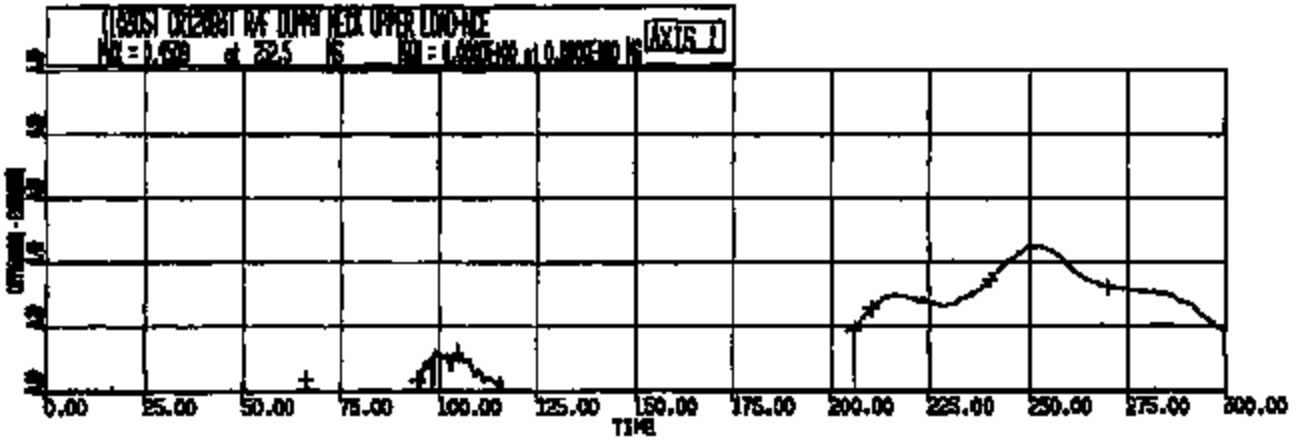
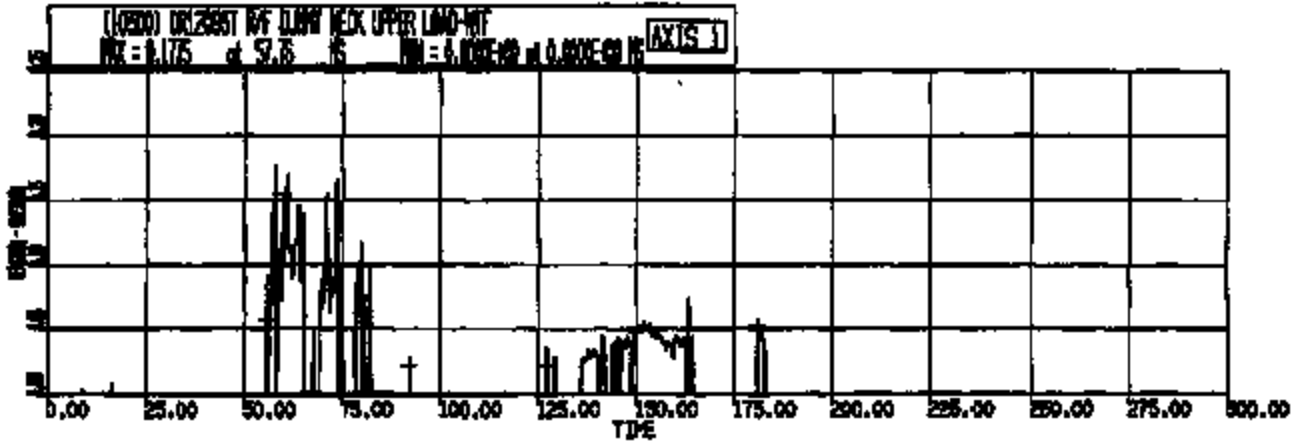
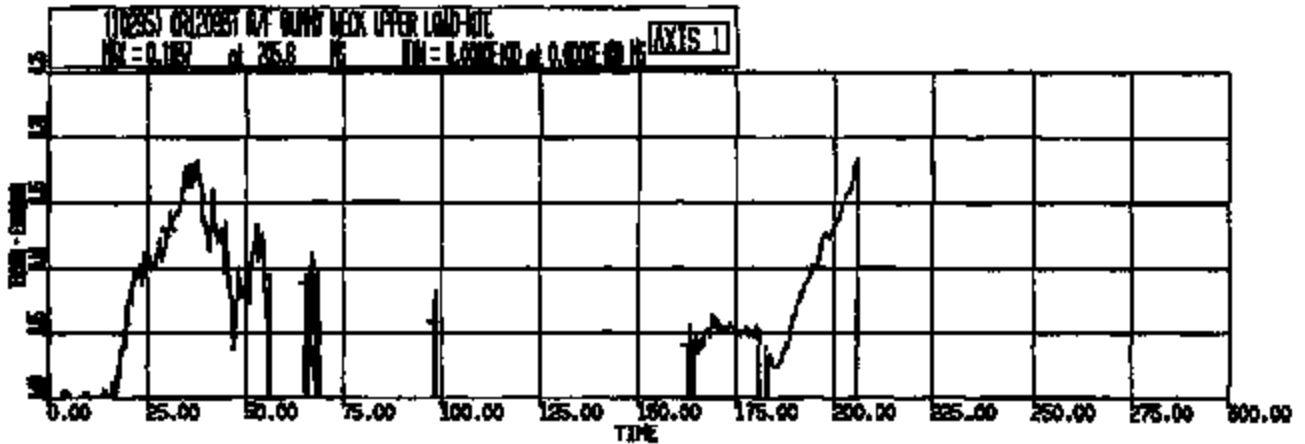
F:\V56208 N1J NECK INJURY CRITERIA(DATA NORMALIZED)
 CR N: 12093 TO: T01831 DATE: 001208 09:28:25
 5TH % DUMMY IN POSITION TEST
 CR12093T_L/F DUMMY_NECK_UPPER_LOAD_FZ_BOON
 CR12093T_L/F DUMMY_NECK_UPPER_LOAD_MY_BOON_LCORRE



F:\VBS208 NIJ NECK INJURY CRITERIA\CUMPOINENT PLOTS)
 CR R: 12093 TO1 TC1881 DATE: 001208 09:12:25
 5TH X DUMMY IN POSITION TEST
 CR12093T-R/F-DUMMY_NECK_UPPER_LOAD_FZ_800N
 CR12093T-R/F-DUMMY_NECK_UPPER_LOAD_MY_800N SCORR2

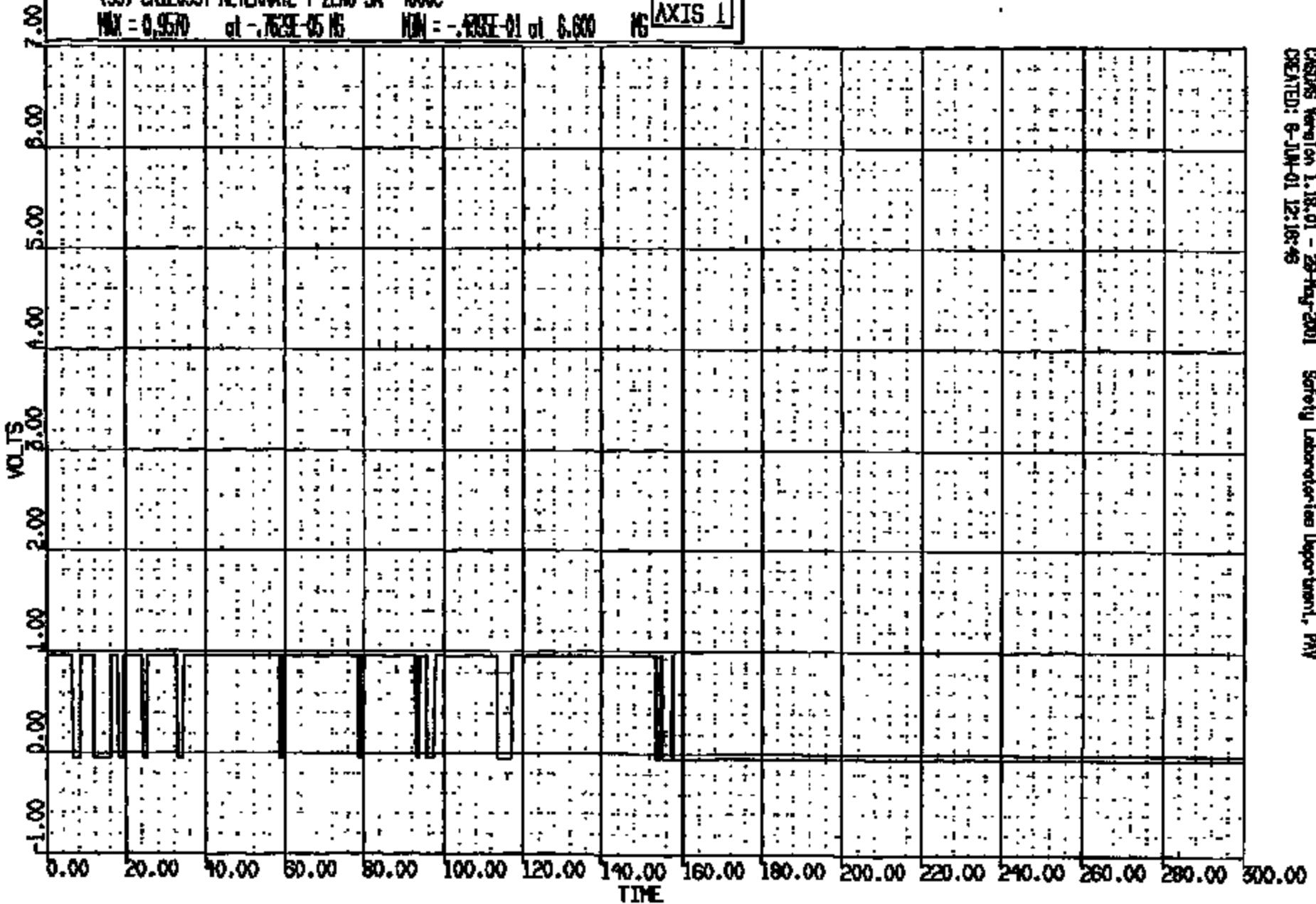


F:\V85208 N1J NECK INJURY CRITERIA\CALC\DATA NORMALIZED\
 CR R: 12093 TO: TC1821 DATE: 001208 09:28:25
 STH X DUMMY IN POSITION TEST
 CR120931 - R\F - DUMMY - NECK - UPPER - LOAD - FZ - 600N
 CR120932 - R\F - DUMMY - NECK - UPPER - LOAD - MY - 600N [CORR]



CK R: 12095 TO: TC1851 DATE: 001806 09:29:25
2000 D186

(53) CR12095T ALTERNATE T-ZERO SN 4000C
MAX = 0.9570 at -.763E-05 NS MIN = -.493E-01 at 6.600 NS **AXIS 1**

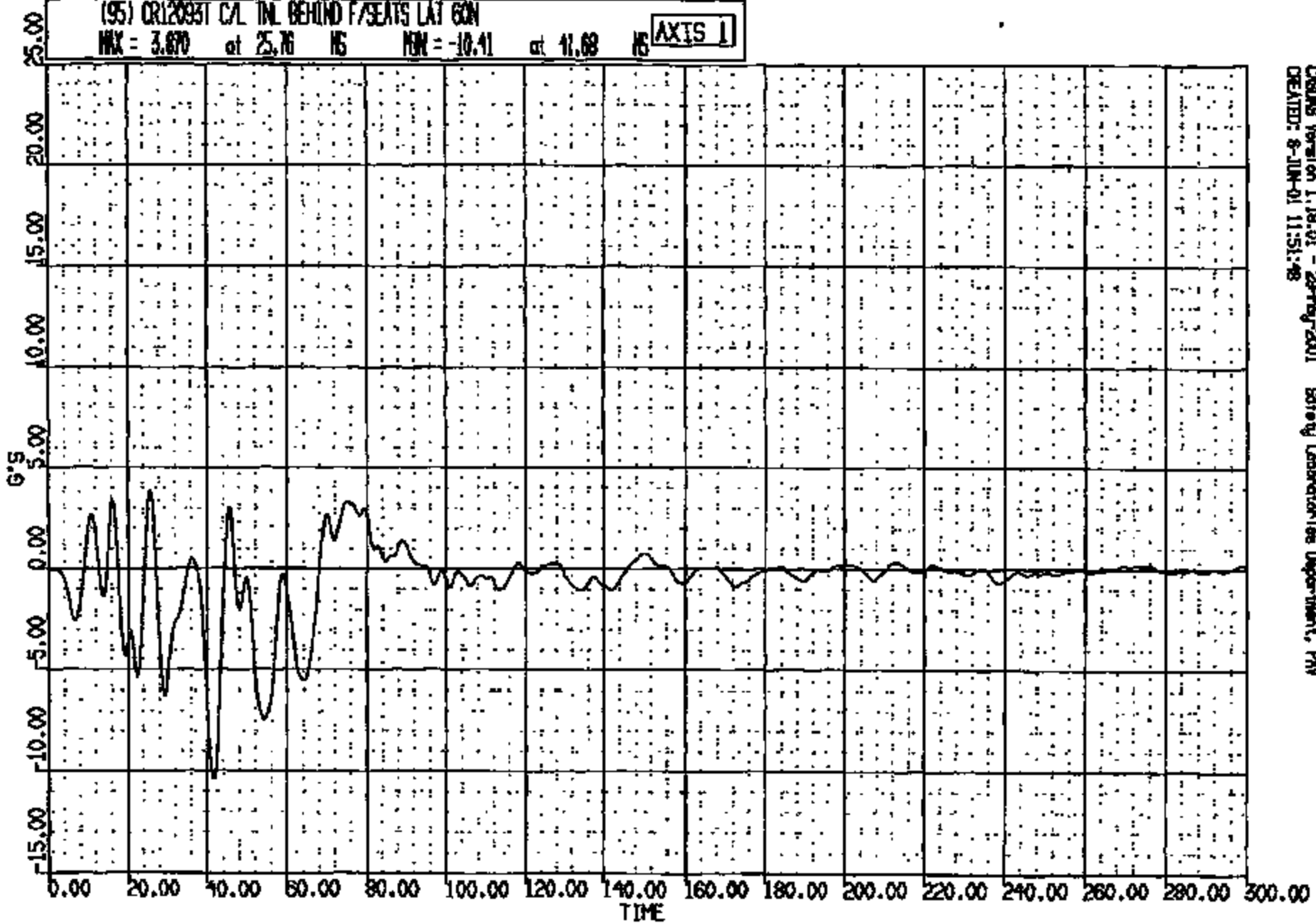


CASDAS Version 1.18.01 - 29-May-2001 Safety Laboratories Department, PNY
CREATED: 6-JUN-01 12:16:49

CRIS 0012093

DR: 12093 TO: TC1931 DATE: 001206 09:29:25
2000 D198

(95) CR12093T C/L INL BEHIND F/SEATS LAT 60N
MAX = 3.870 at 25.76 HS MIN = -10.41 at 41.69 HS **AXIS 1**

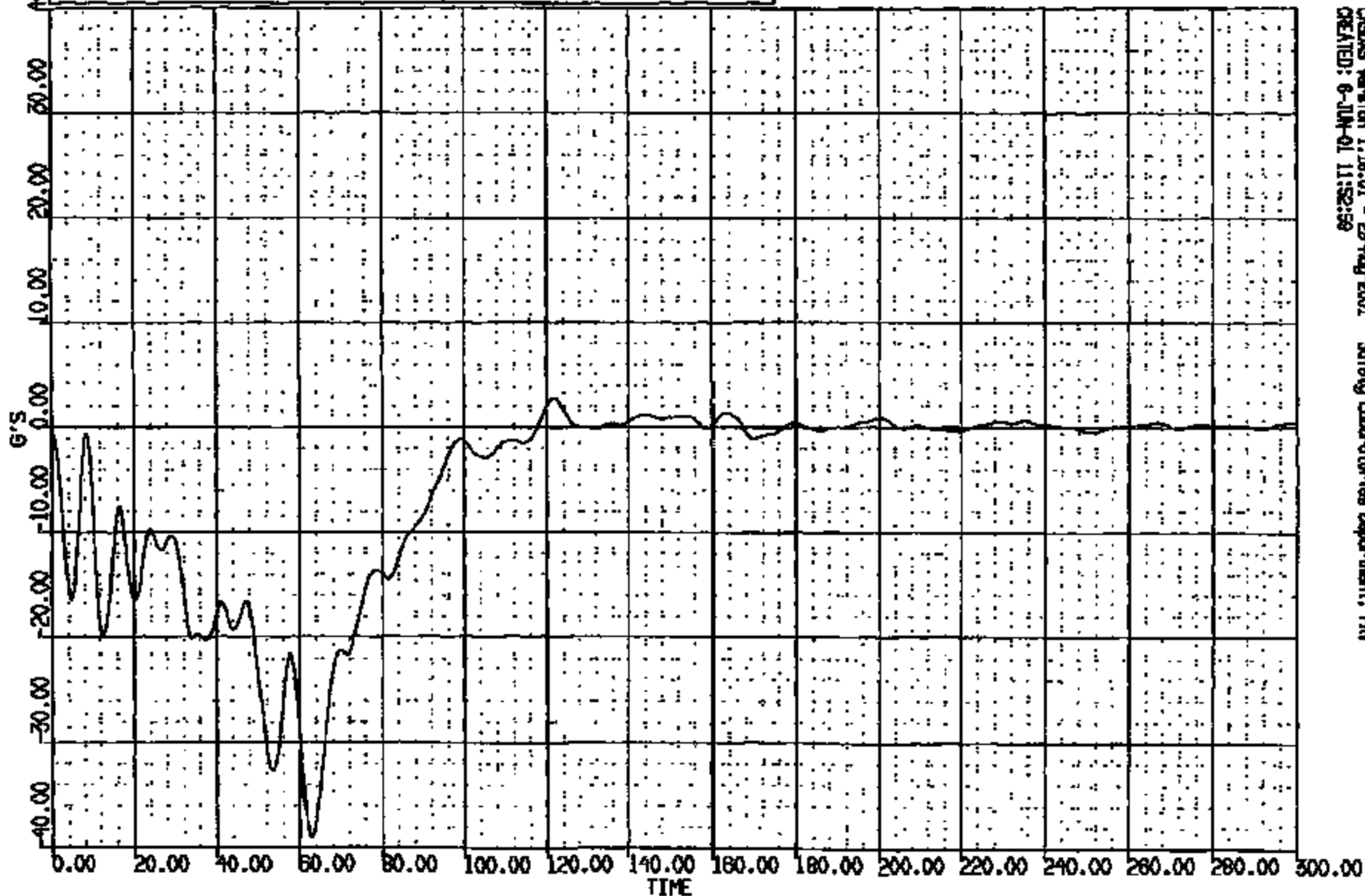


CRDMS Version 1.19.01 - 29-Aug-2001 Safety Laboratories Department, PAV
CREATED: 8-JUN-01 11:51:48

CRTS 0012093

CR R: 12095 TO: TC1851 DATE: 001208 08:29:25
2000 D188

(98) CR120937 C/L TML BEHIND F/SEATS LONG 60N
MAX = 2.746 at 121.7 MS MIN = -39.09 at 62.80 MS **AXIS 1**



CIRGIS Version 1.18.01 - 29 May 2001 Safety Laboratories Department, PAW
CREATED: 6-JUN-01 11:52:59

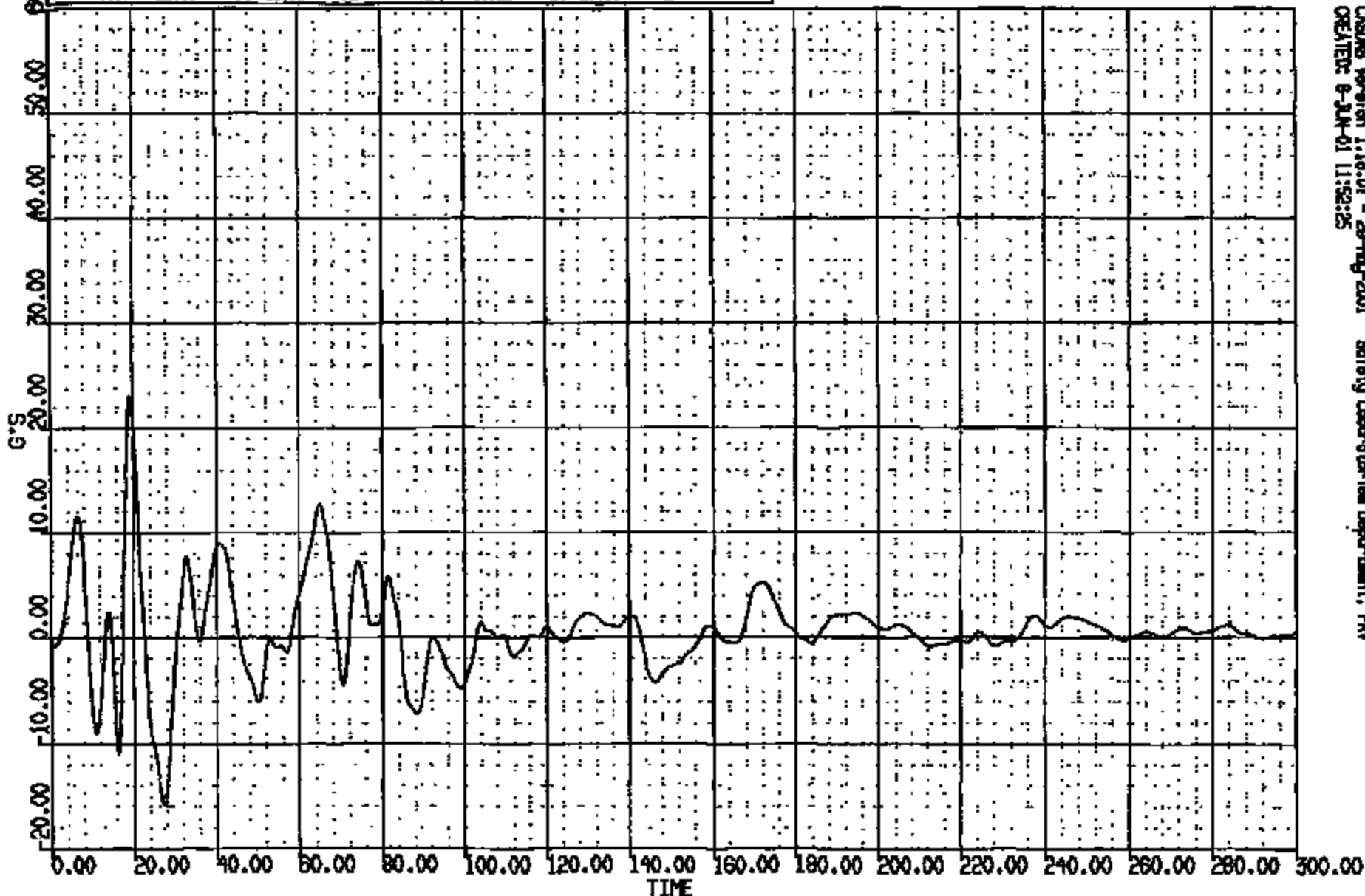
CRTS 0012093

CK R: 12093 TO: TC1831 DATE: 001208 09:29:25
2000 D186

(94) CR120931 C/L TML BEHIND F/SEATS VERT GON

MAX = 28.83 at 19.36 MS MIN = -15.82 at 27.36 MS

AXIS 1



CASMG Version 1.18.01 - 20-Aug-2001 Safety Laboratory/In Department, PAW
CREATED: 8-JUN-01 11:52:25

CRTS 0012093

CR12093T
BOX R: 12093 TO: TC1881 DATE: 001206 09:28:25
0000 D188

(78) CR12093T C/L TNL @ DASH RICH #2 LAT 60N

MAX = 42.26 at 47.20 NS MIN = -26.97 at 39.12 NS

AXIS 1

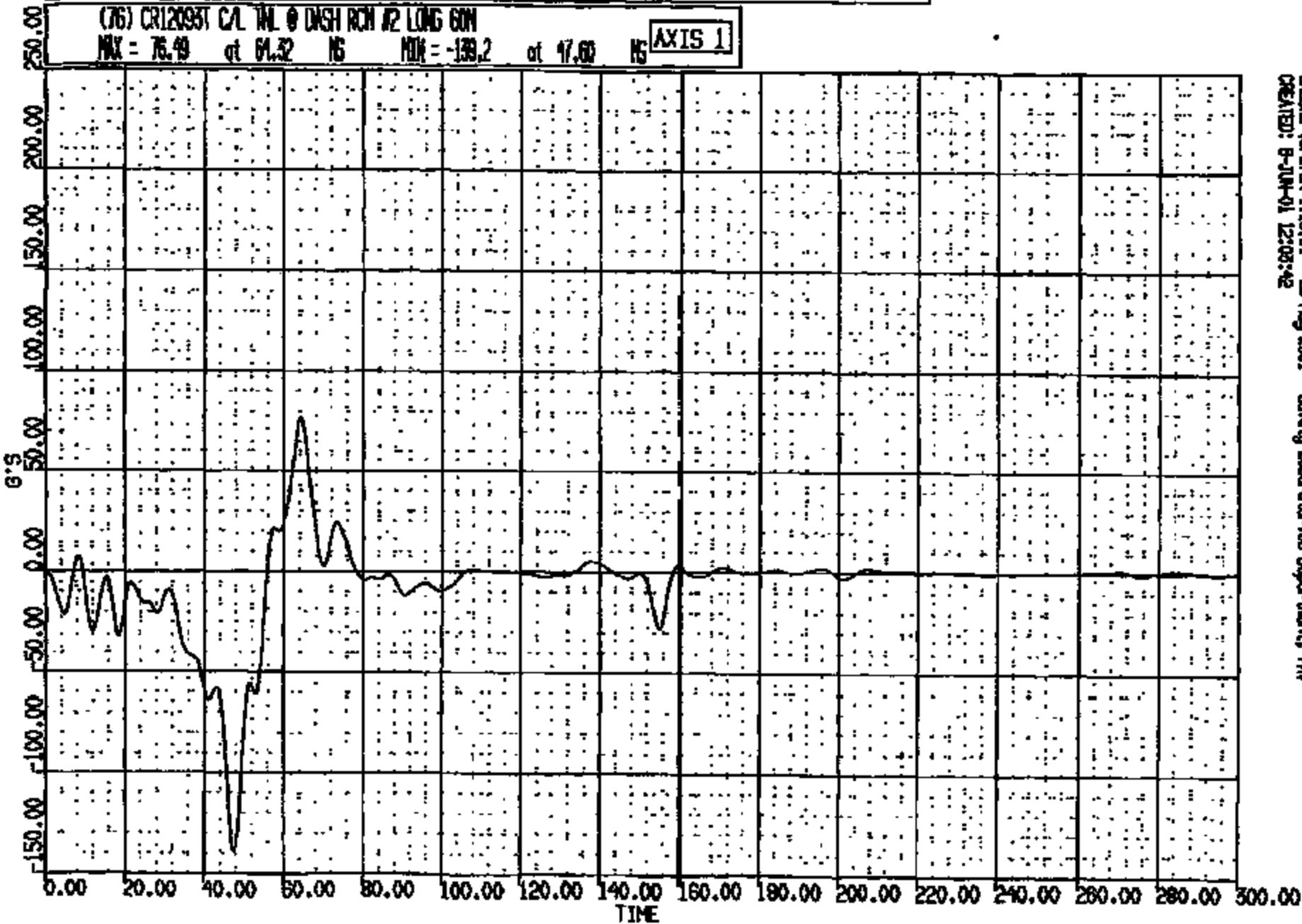


CRS Version 1.18.01 - 29-Aug-2001 Safety Laboratories Department, PNV
CREATED: 6-JUN-01 12:02:21

CR12093T

CY R: 12093 TO: TC1831 DATE: 001204 09:29:25
2000 D186

(76) CR12093T C/L W/L @ DASH RCH #2 LONG 60H
MAX = 75.49 at 64.32 NS MIN = -139.2 at 47.60 NS **AXIS 1**



CASYS Version 1.19.01 - 29-May-2001 Safety Laboratories Department, PAW
CREATED: 8-JUN-01 12:05:42

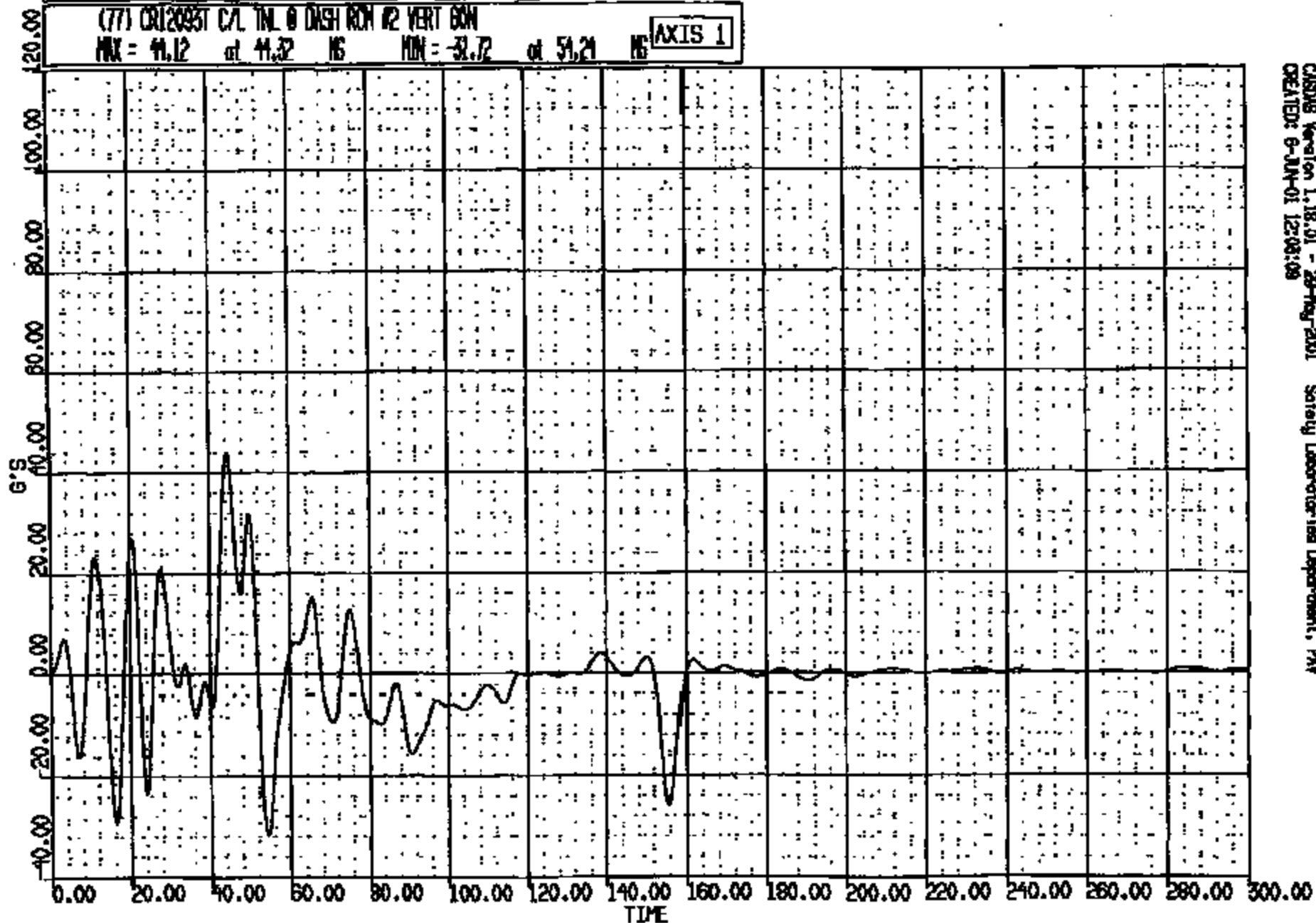
CRIS 0012093

R: 12098 TO: TC1831 DATE: 001206 09:29:25
8000 D188

(77) CR12093T C/L TNL @ DASH ROM #2 VERT GON

MAX = 41.12 at 44.32 MS MIN = -31.72 at 51.21 MS

AXIS 1



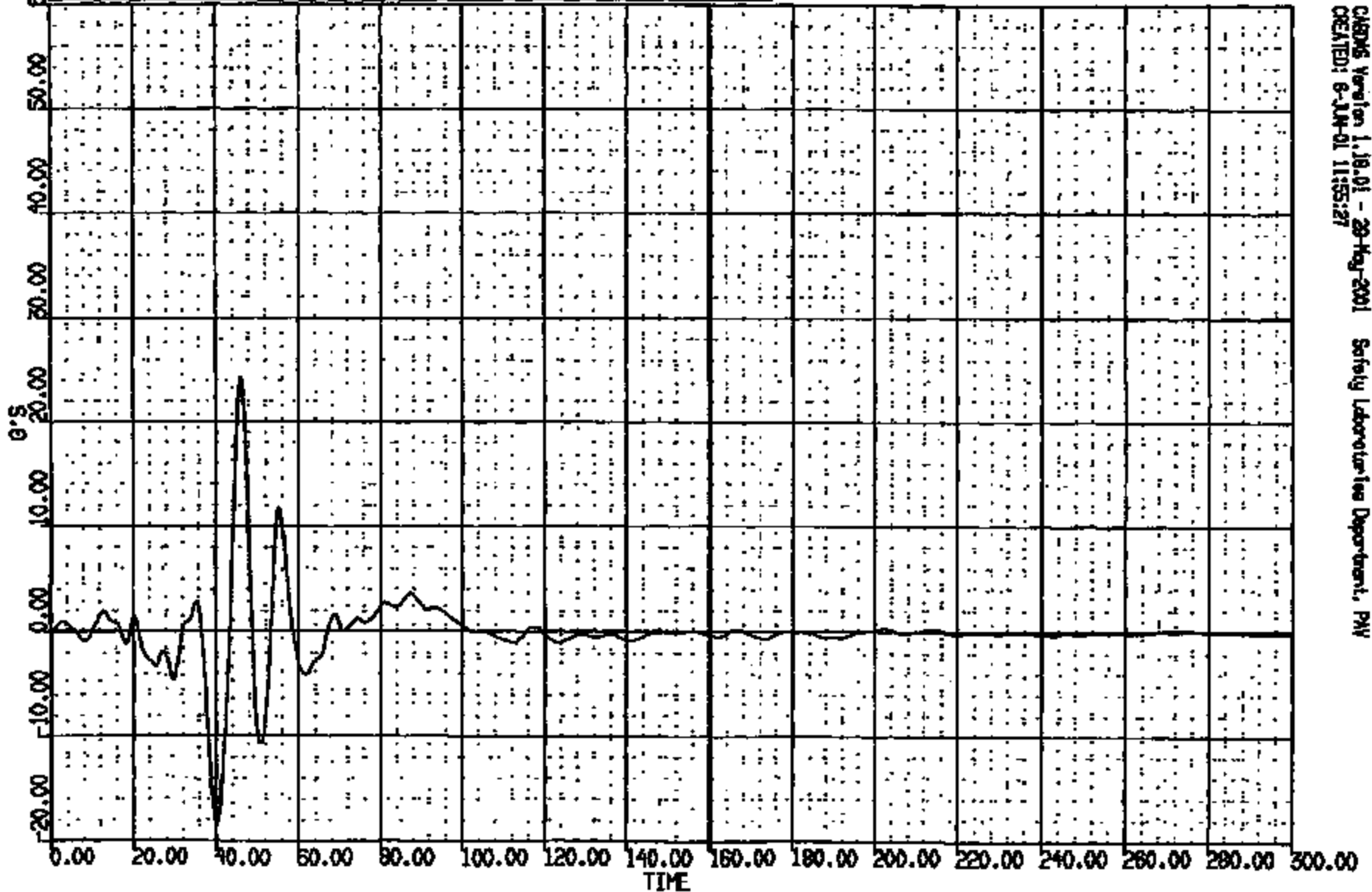
CRSDB Version 1.18.01 - 29-May-2001
CREATED: 6-JUN-01 12:08:08

Safety Laboratories Department, PAW

CRIS 0012093

CR R: 12095 TO: TC1851 DATE: 001208 09:29:25
2000 D189

(89) CR12095T C/L TML @ DASH SH NS LAT GUN
MIN = 24.32 at 46.08 NS MIN = -18.61 at 40.16 NS **AXIS 1**

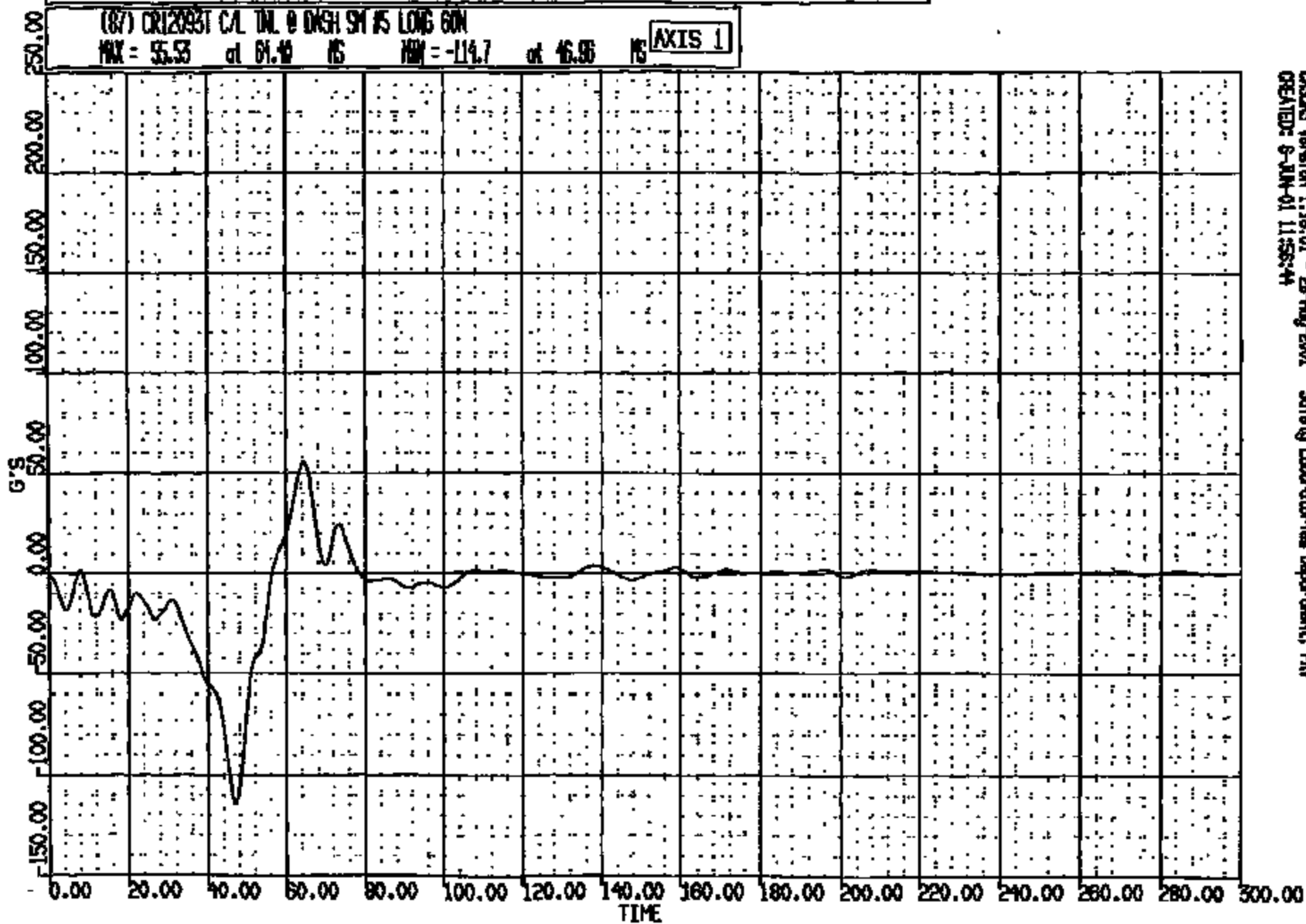


CASPER Version 1.18.01 - 29-Aug-2001 Safety Laboratories Department, PAW
CREATED: 8-JUN-01 11:55:27

CRTS 0012093

CH R: 12093 TO: TC1831 DATE: 001206 09:29:25
2000 D186

(07) CR12093T CAL TML @ DASH SN #5 LONG 60N
MAX = 55.53 at 04.49 NS MIN = -114.7 at 46.95 NS **AXIS 1**

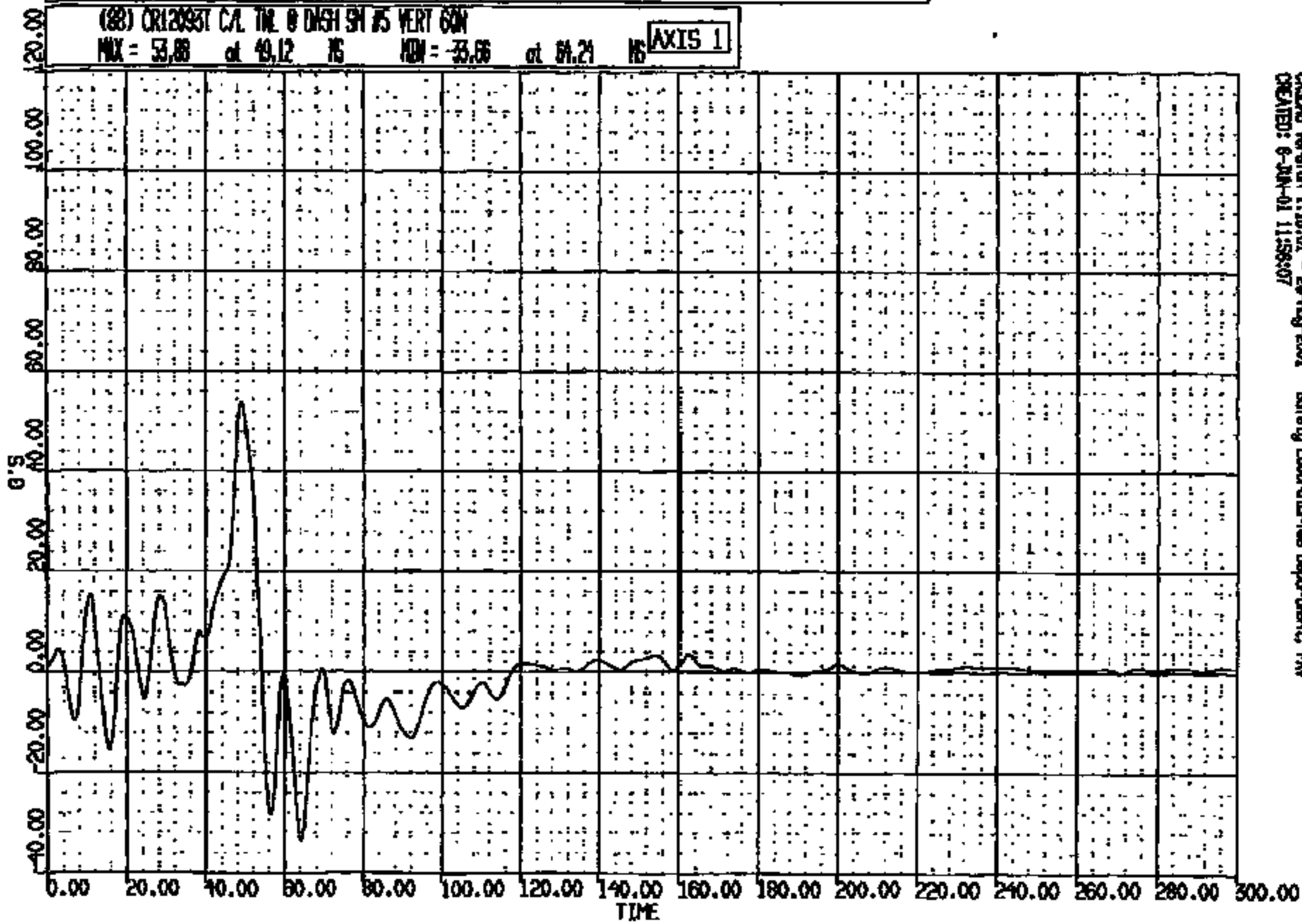


CRS09 Version 1.18.01 - 29-May-2001 Safety Laboratories Department, PAW
CREATED: 6-JUN-01 11:58:44

CRTS 0012093

CH R: 12093 TO: TC1851 DATE: 001206 09:29:25
2000 DISG

(88) CR12093T C/L TML @ DASH SH #5 VERT 60N
MAX = 53.88 at 49.12 NS MIN = -33.56 at 64.21 NS **AXIS 1**

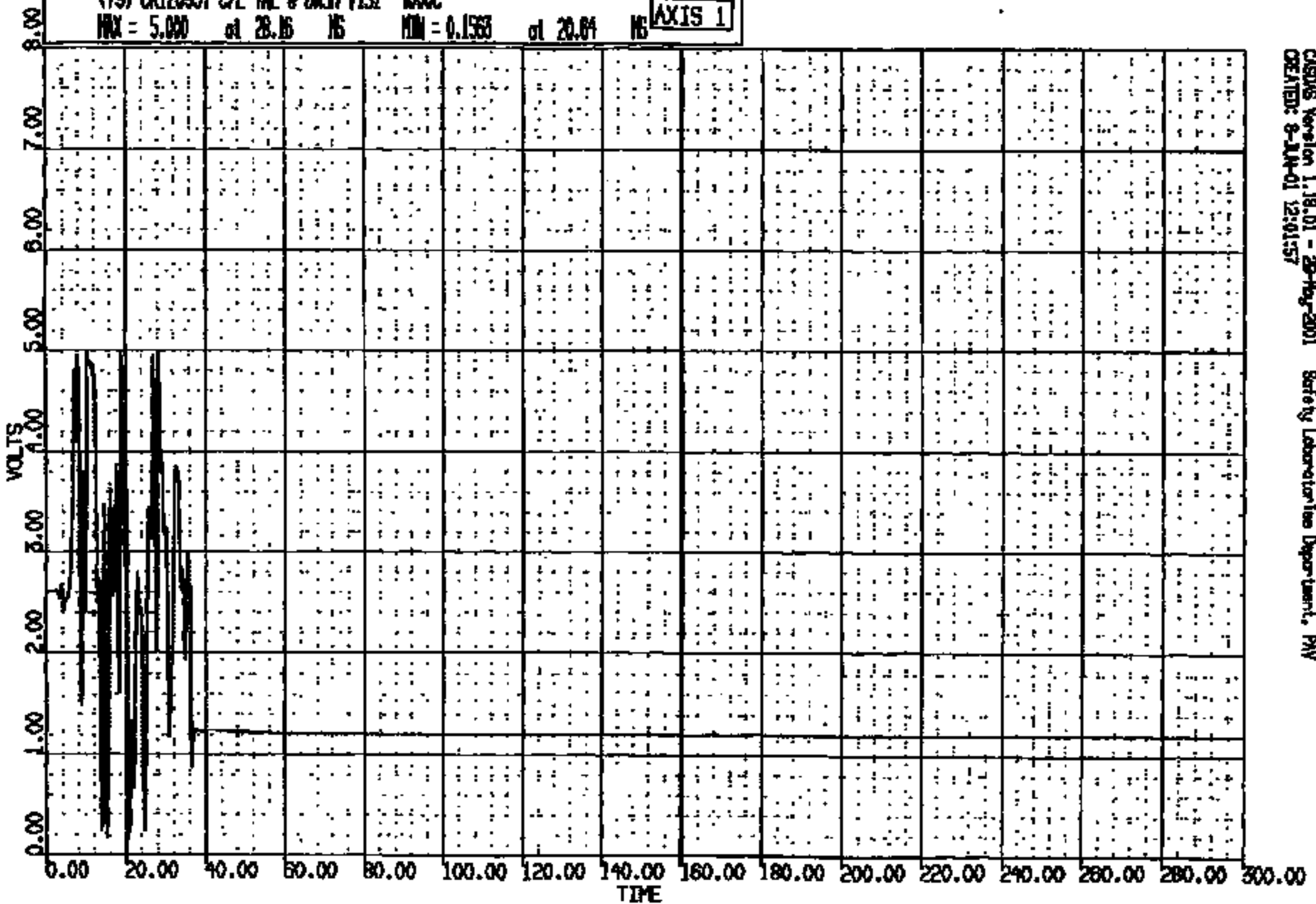


CASUS Version 1.18.01 - 29-May-2001 Safety Laboratories Department, PAW
CREATED: 6-JUN-01 11:58:07

CRIS 0012093

CR R: 12095 TO: TC1851 DATE: 001200 09:28:25
2000 DIBS

(79) CR12093T C/L TAL @ DASH VISE! 4000C
MAX = 5.000 at 28.16 NS MIN = 0.1563 at 20.04 NS **AXIS 1**



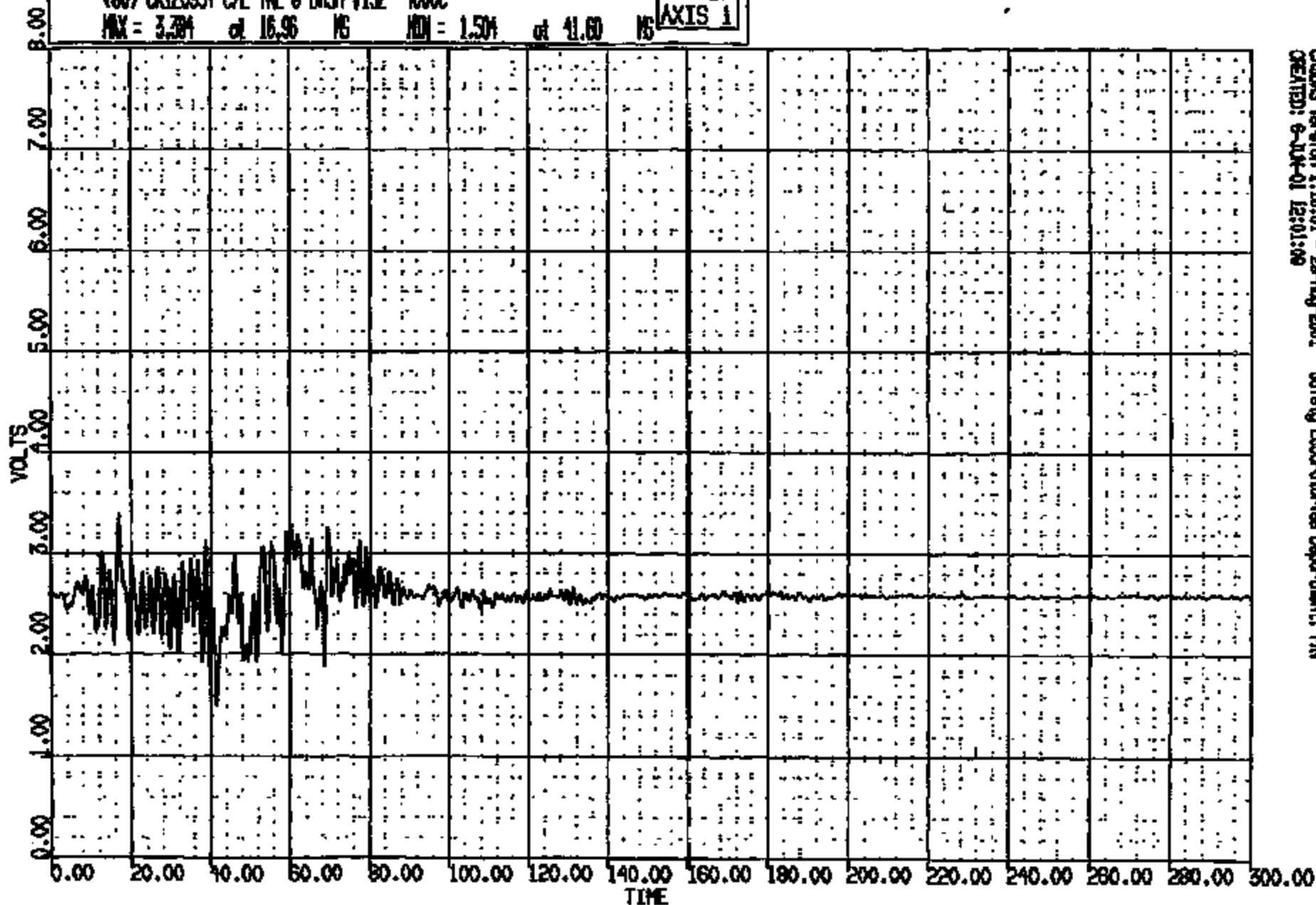
CASYS Version 1.18.01 - 29-May-2001 Safety Laboratories Department, PNV
CREATED: 8-JUN-01 12:01:57

CRIS 0012093

DR R: 12093 TO: TC1951 DATE: 001206 09:29:25
2000 D188

(80) CR120931 C/L TNL @ DASH VIS2 4000

MAX = 3.394 at 16.96 MS MIN = 1.504 at 41.60 MS **AXIS 1**

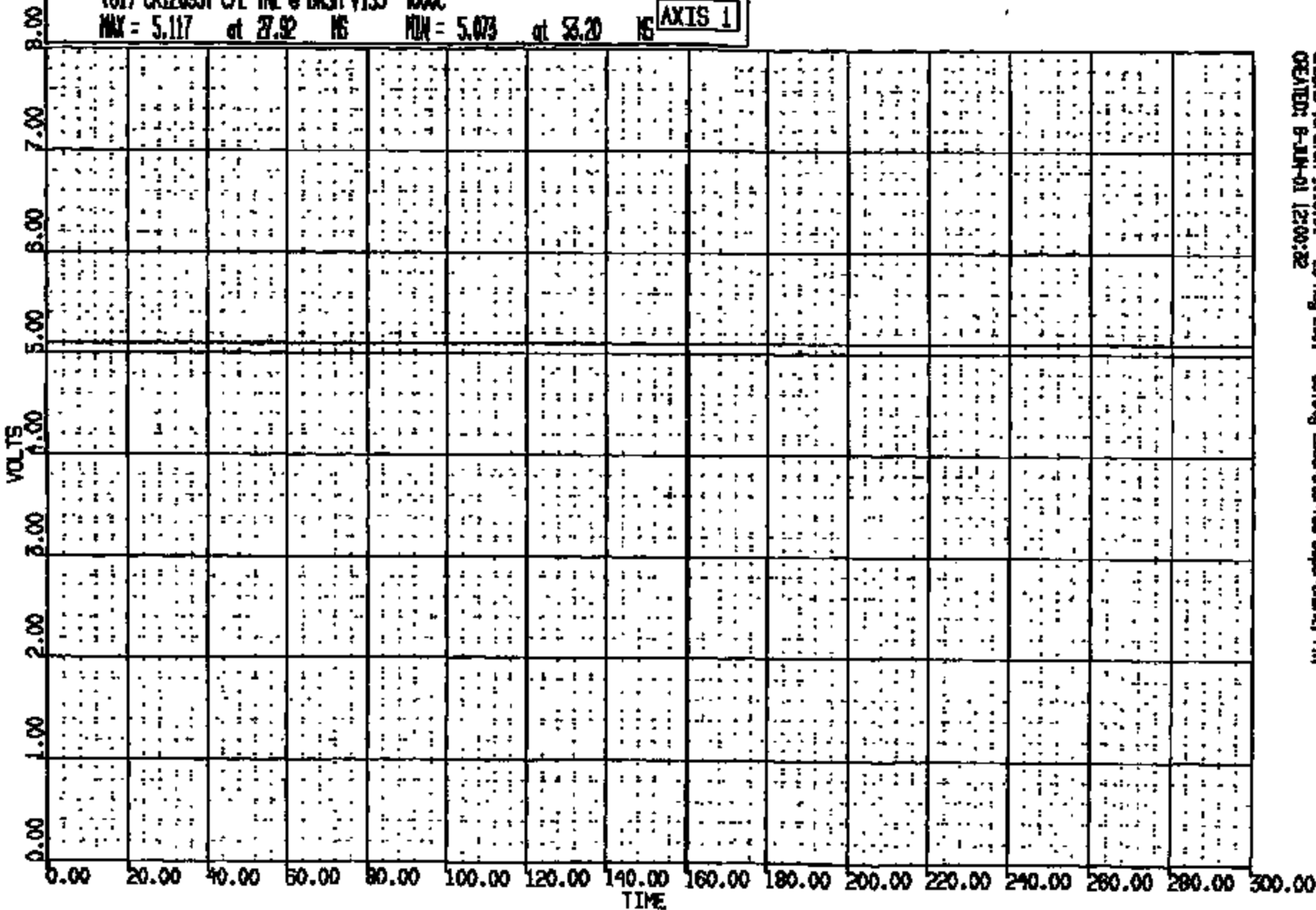


CASYS Version 1.18.01 - 29-May-2001 Safety Laboratories Department, PNV
CREATED: 6-JUN-01 12:01:00

CRTS 0012093

CP R: 12093 TO: TC1851 DATE: 001208 09:29:25
2000 D185

(81) CR12093T C/L TNL @ DASH VTS3 400C
MAX = 5.117 at 27.92 MS MIN = 5.073 at 53.20 MS **AXIS 1**



CASYS Version 1.18.01 - 29-May-2001 Safety Laboratories Department, PAN
CREATED: 8-JUN-01 12:00:22

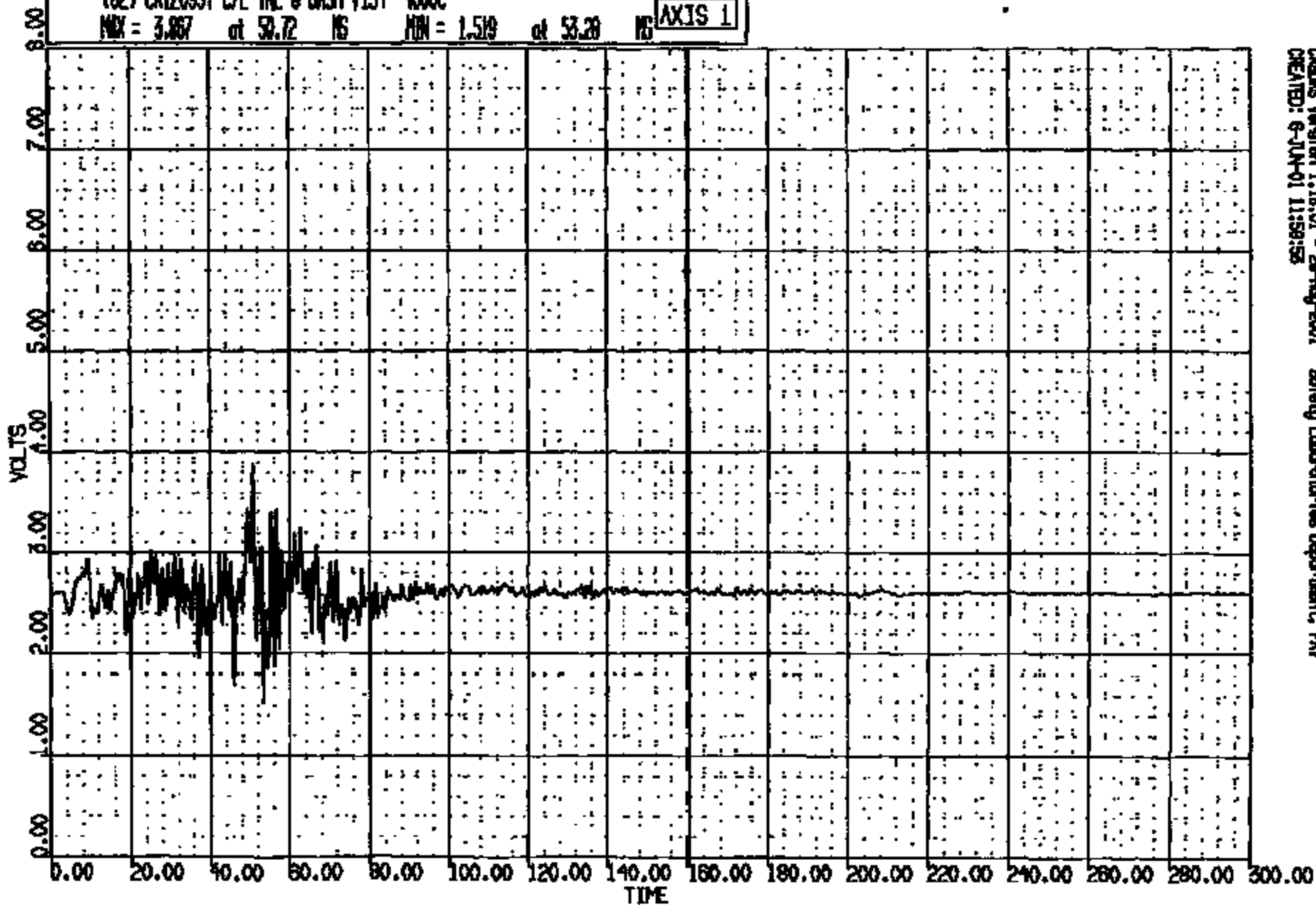
CRTS 0012093

CR: R: 12093 TO: TC1831 DATE: 001204 09:29:25
2000 D186

(82) CR12093T C/L TNL @ DASH VISA 400C

MAX = 3.867 at 50.72 NS MIN = 1.519 at 53.29 NS

AXIS 1



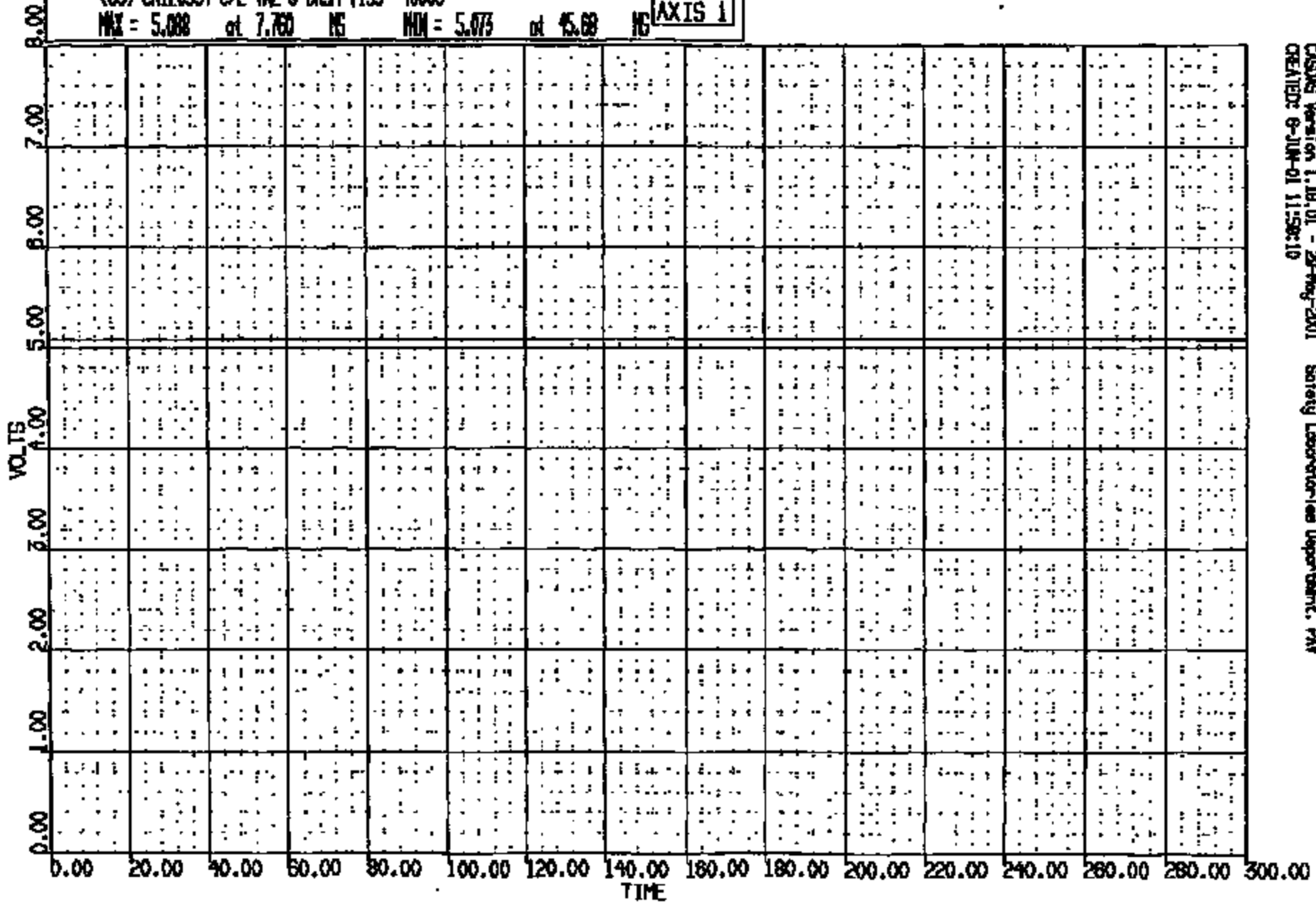
CRSIS Version 1.18.01 - 29-May-2001
CREATED: 6-JUN-01 11:59:52

Safety Laboratories Department, PAW

CRIS 0012093

PC R: 12093 TO: TC1831 DATE: 001204 09:29:25
R000 D188

(83) CR12093T C/L TML @ DASH V155 4000C
MAX = 5.088 at 7.760 NS MIN = 5.073 at 45.68 NS **AXIS 1**

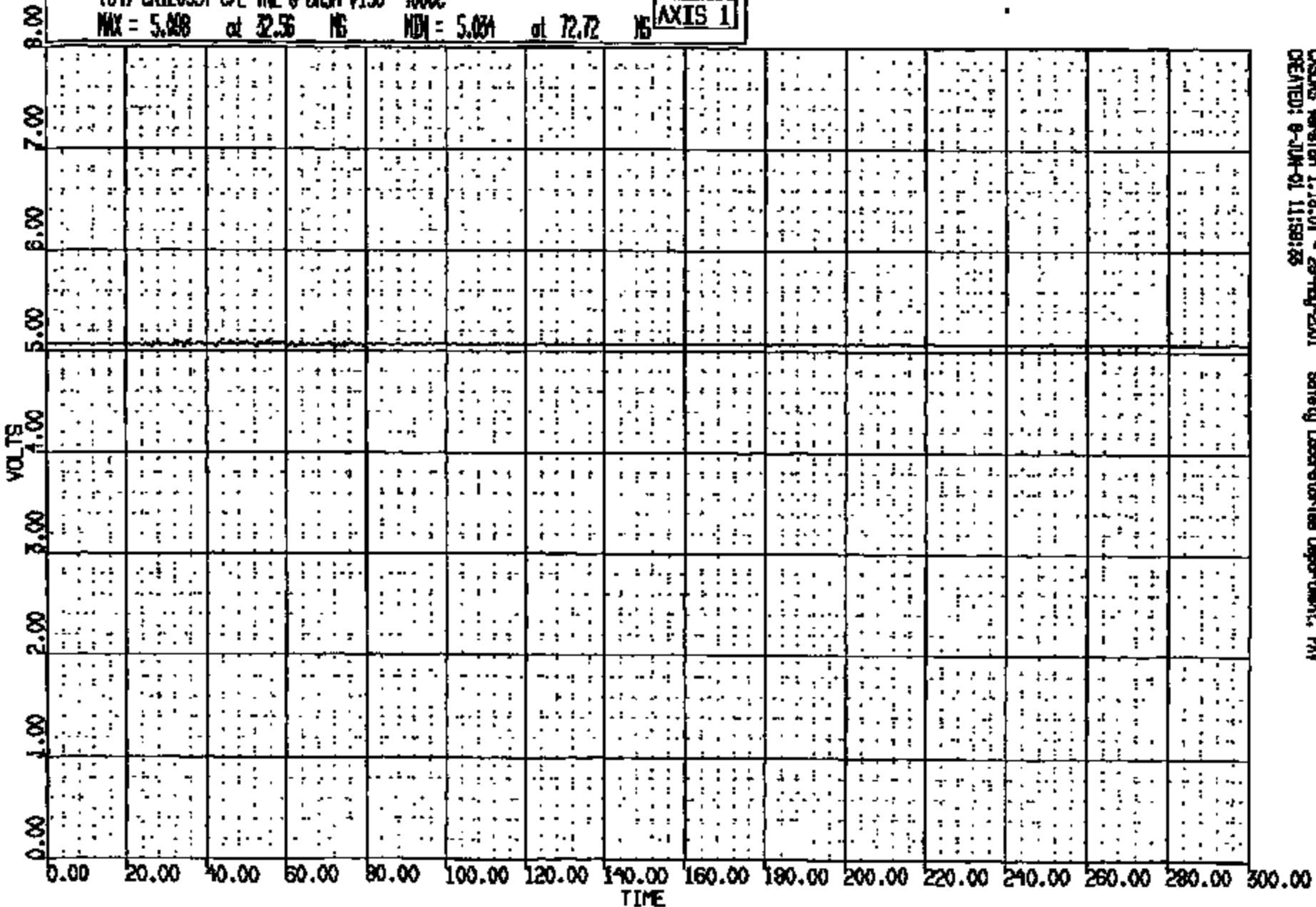


CASAS Version 1.19.01 - 29-May-2001 Safety Laboratories Department, PAN
CREATED: 6-JUN-01 11:58:10

CRIS 0012093

CR R: 12093 TO: TC1851 DATE: 001206 08:28:25
2000 D180

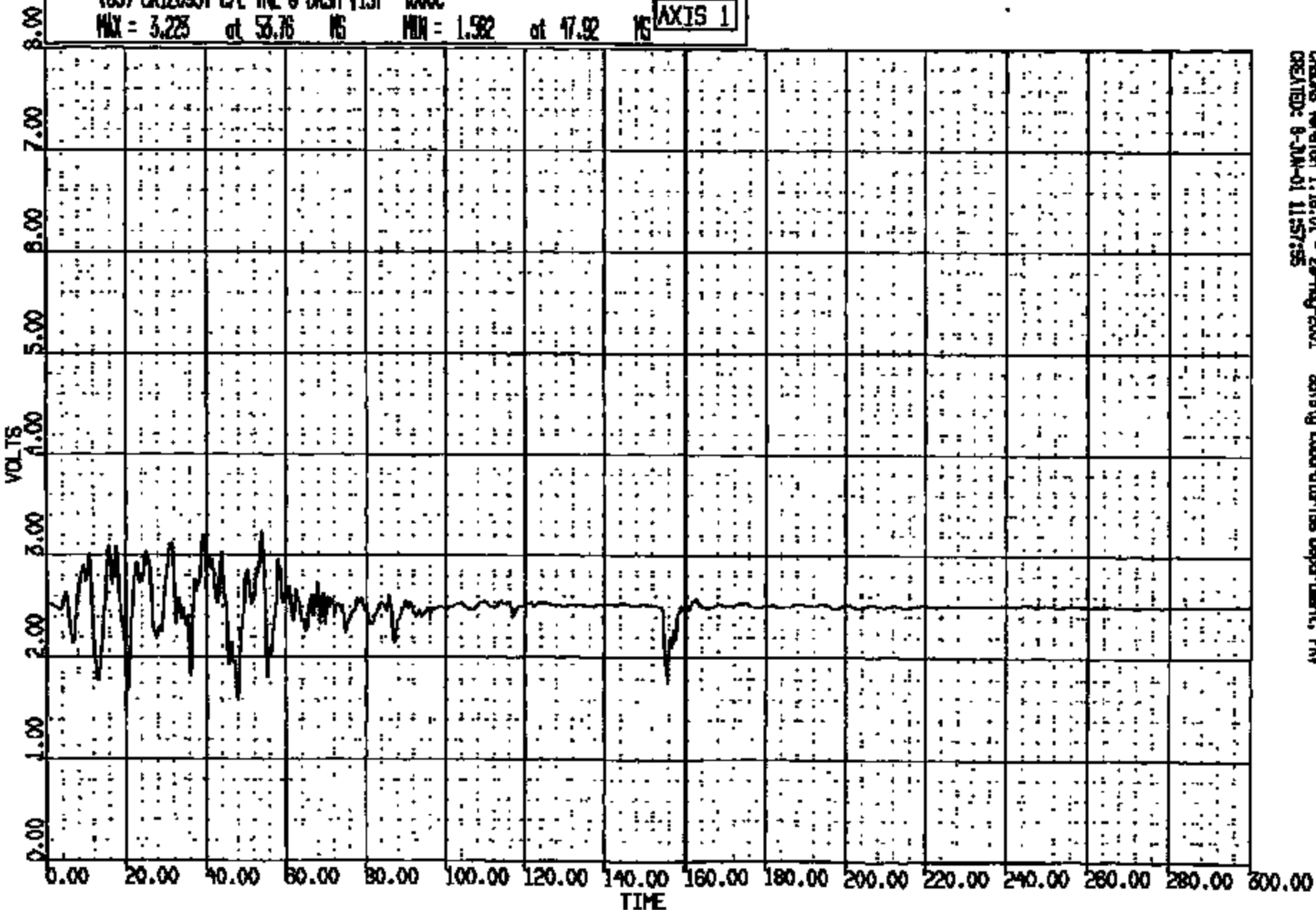
(84) CR120937 C/L TNL @ DASH VISS 4000C
MAX = 5.008 at 32.56 NS MIN = 5.034 at 72.72 NS **AXIS 1**



CASYS Version 1.19.01 - 29-May-2001 Safety Laboratories Department, PNY
CREATED: 8-JUN-01 11:58:33

CR R: 12095 TO: TC1831 DATE: 001209 09:29:25
2000 D188

(85) CR12095T C/L TNL @ DASH VIS? 4000C
MAX = 3.225 at 56.76 MS MIN = 1.582 at 17.92 MS **AXIS 1**



CARDIS Version 1.19.01 - 29-May-2001 Safety Laboratories Department, PAW
CREATED: 8-JUN-01 11:57:55

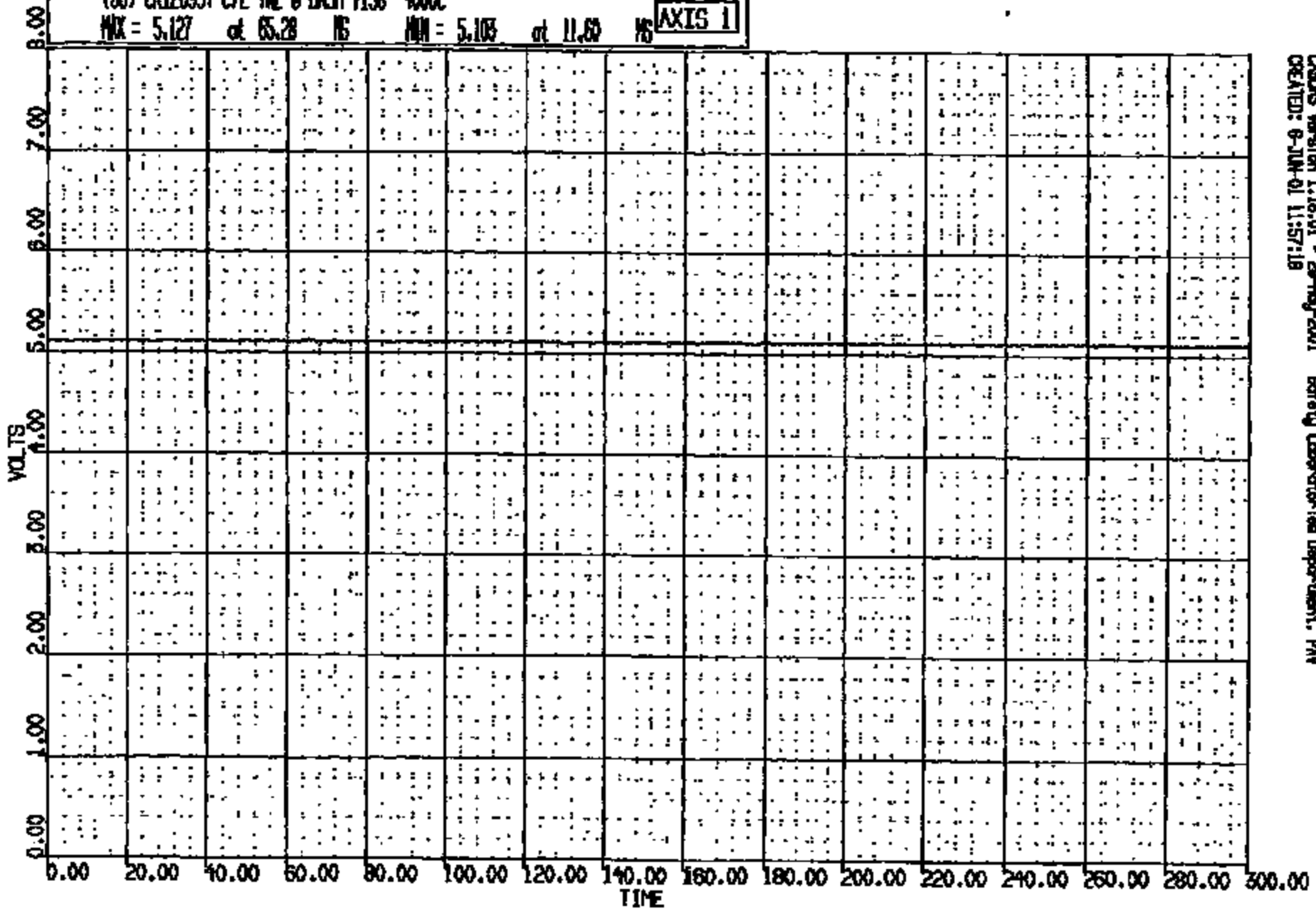
CRTS 0012093

CR R: 12093 TO: TC1831 DATE: 001208 08:28:25
2000 D188

(86) CR12093T C/L TML @ DASH V158 4000C

MAX = 5.127 at 65.28 NS MIN = 5.103 at 11.60 NS

AXIS 1

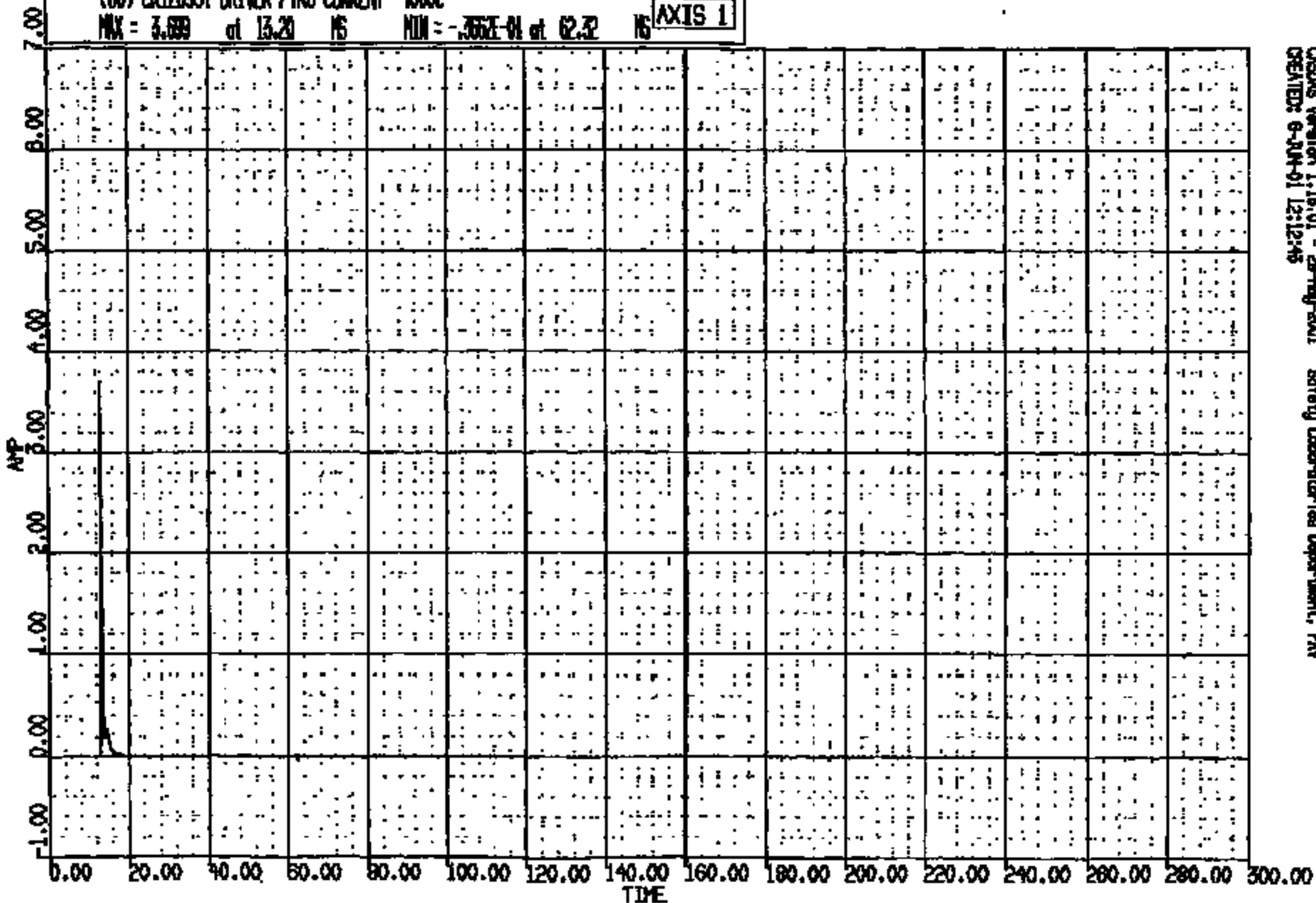


CADDS Version 1.18.01 - 29-May-2001 Safety Laboratories Department, PAW
CREATED: 8-JUN-01 11:57:18

CRIS 0012093

CH R: 12093 TO: TC1851 DATE: 001206 09:29:25
2000 D188

(60) CR120931 DRIVER PYRO CURRENT 400C
MAX = 3.689 at 13.20 MS MIN = -.365E-01 at 62.32 MS **AXIS 1**



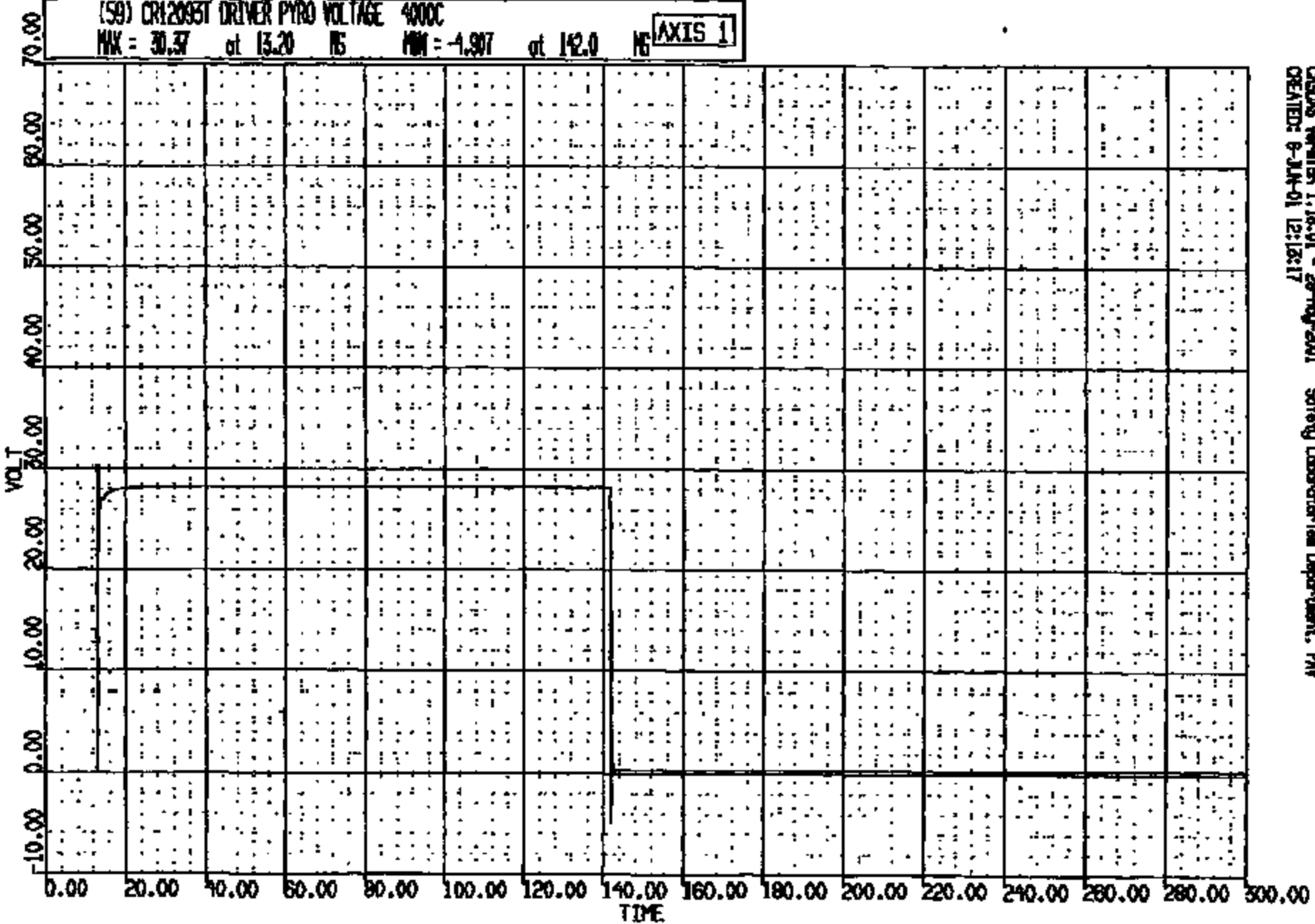
CASAS Version 1.18.01 - 29-May-2001 Safety Laboratories Department, PAW
CREATED: 6-JUN-01 12:12:45

CR: 12093 TO: TC1851 DATE: 001204 08:28:28
R000 DIS9

(59) CR12093T DRIVER PYRO VOLTAGE 400C

MAX = 30.57 at 13.20 MS MIN = -4.907 at 142.0 MS

AXIS 1

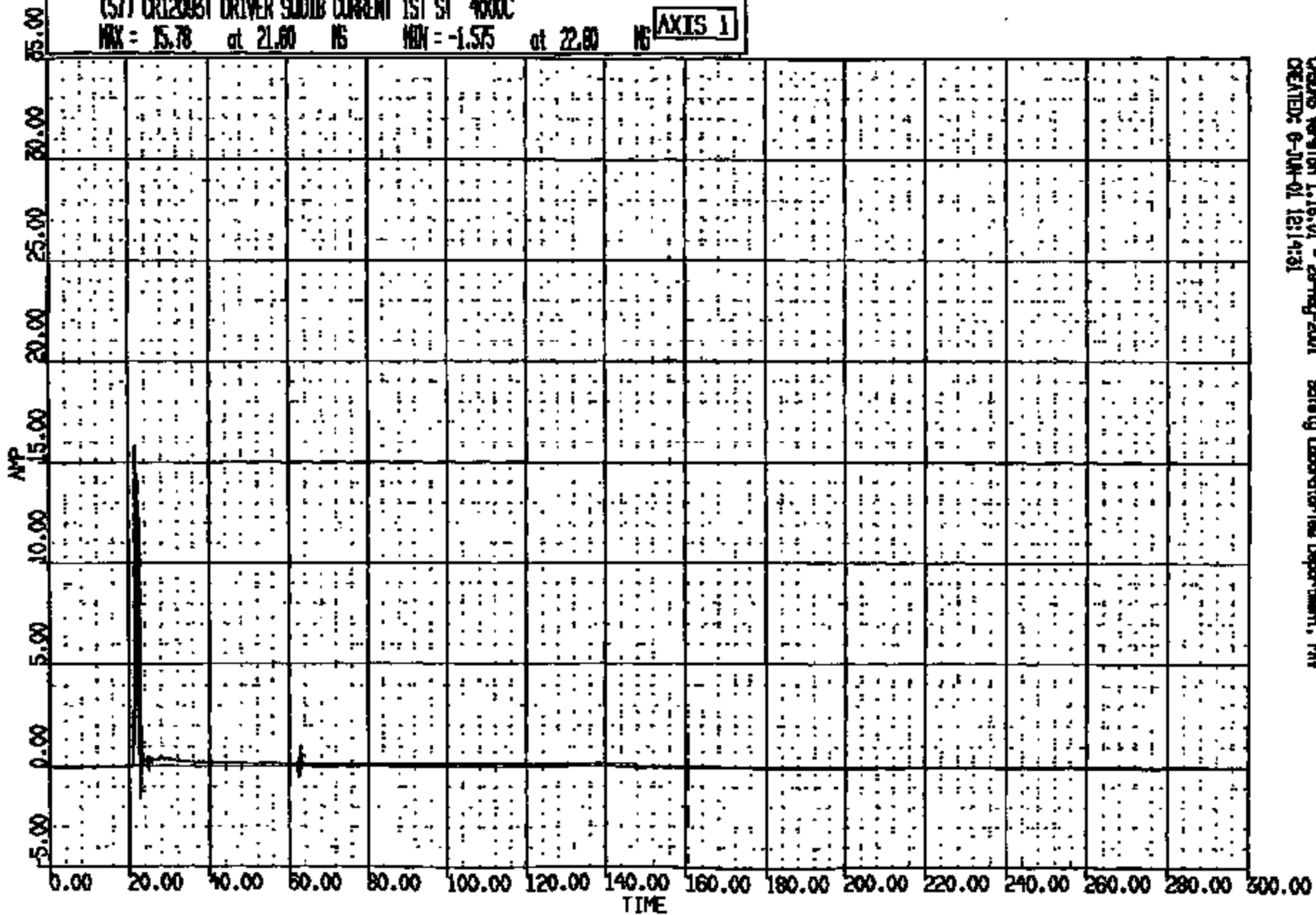


CASAS Version 1.18.01 - 29-May-2001 Safety Laboratories Department, PAV
CREATED: 8-JUN-01 12:12:17

CRTS 0012093

CR R: 12095 TO: TC1851 DATE: 001200 09:29:25
2000 D198

(57) CR12095T DRIVER SCUDIB CURRENT 1ST ST 400C
MAX = 15.78 at 21.00 NS MIN = -1.575 at 22.00 NS **AXIS 1**

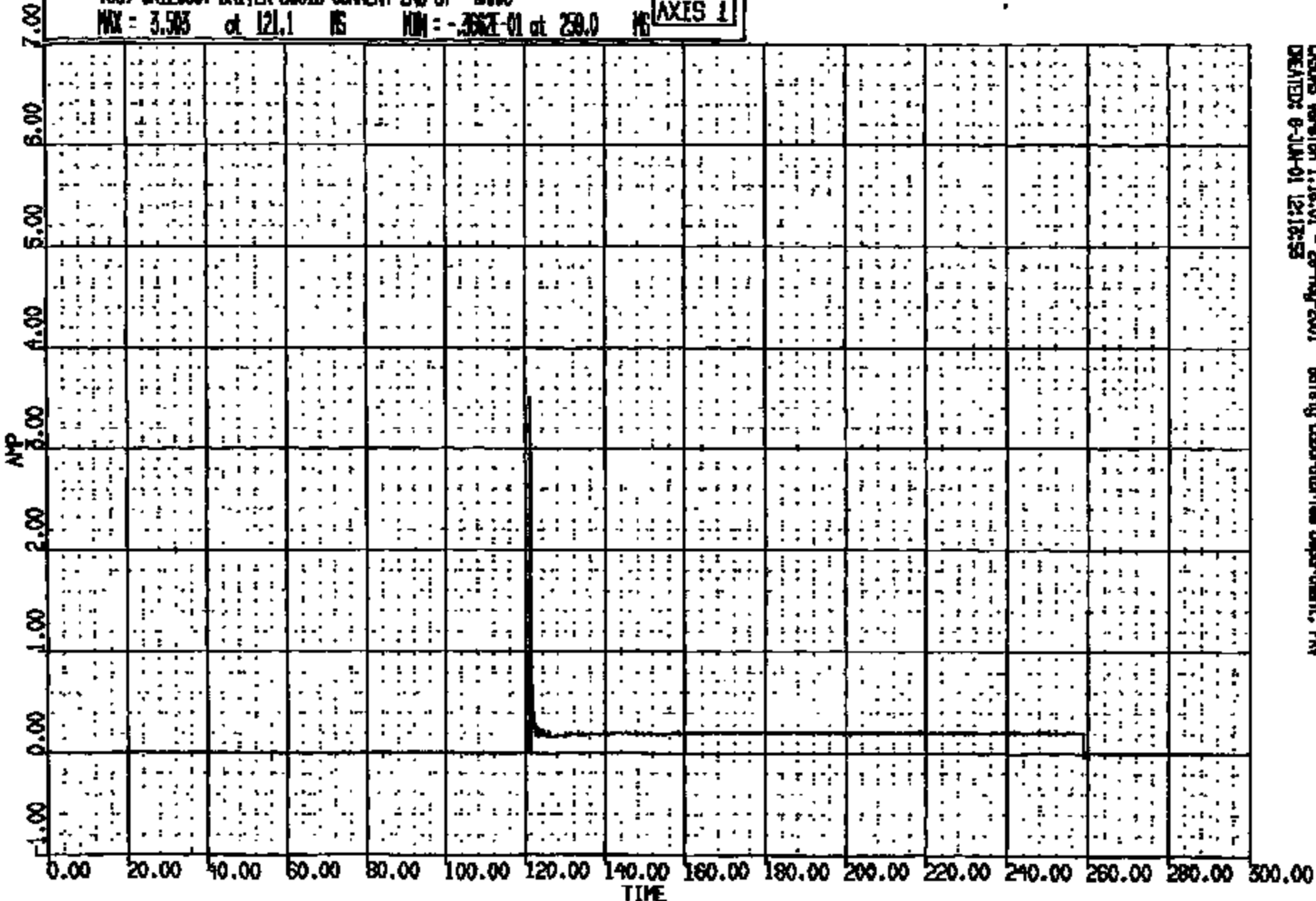


CRS06 Version 1.18.01 - 29-May-2001 Safety Laboratories Department, PAW
CREATED: 6-JUN-01 12:14:31

CRIS 0012093

CR: R: 12093 TO: TC1851 DATE: 001206 09:29:25
2000 Digs

(58) CR120931 DRIVER SOLID CURRENT 2ND ST 4000C
MAX = 3.503 at 121.1 MS MIN = -.366E-01 at 239.0 MS **AXIS 1**



CRS005 Version 1.18.01 - 28-May-2001 Safety Laboratories Department, PNW
CREATED: 8-JUN-01 12:12:52

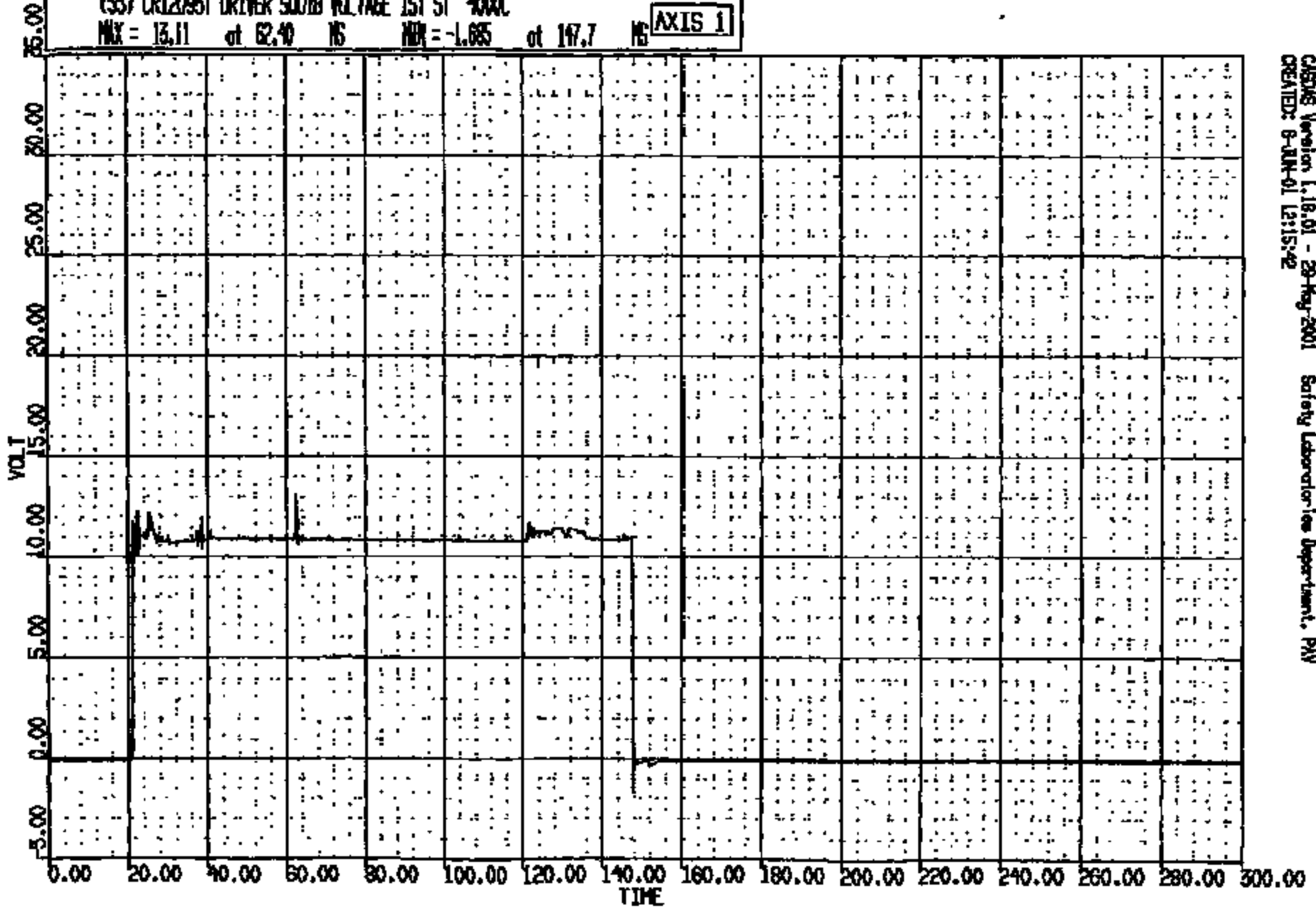
CRIS 0012093

CR R: 12093 TO: TC1851 DATE: 001208 08:28:25
2000 0188

(55) CR12093T DRIVER SOLID VOLTAGE 1ST ST 4000C

MAX = 13.11 at 62.40 NS MIN = -1.685 at 147.7 NS

AXIS 1

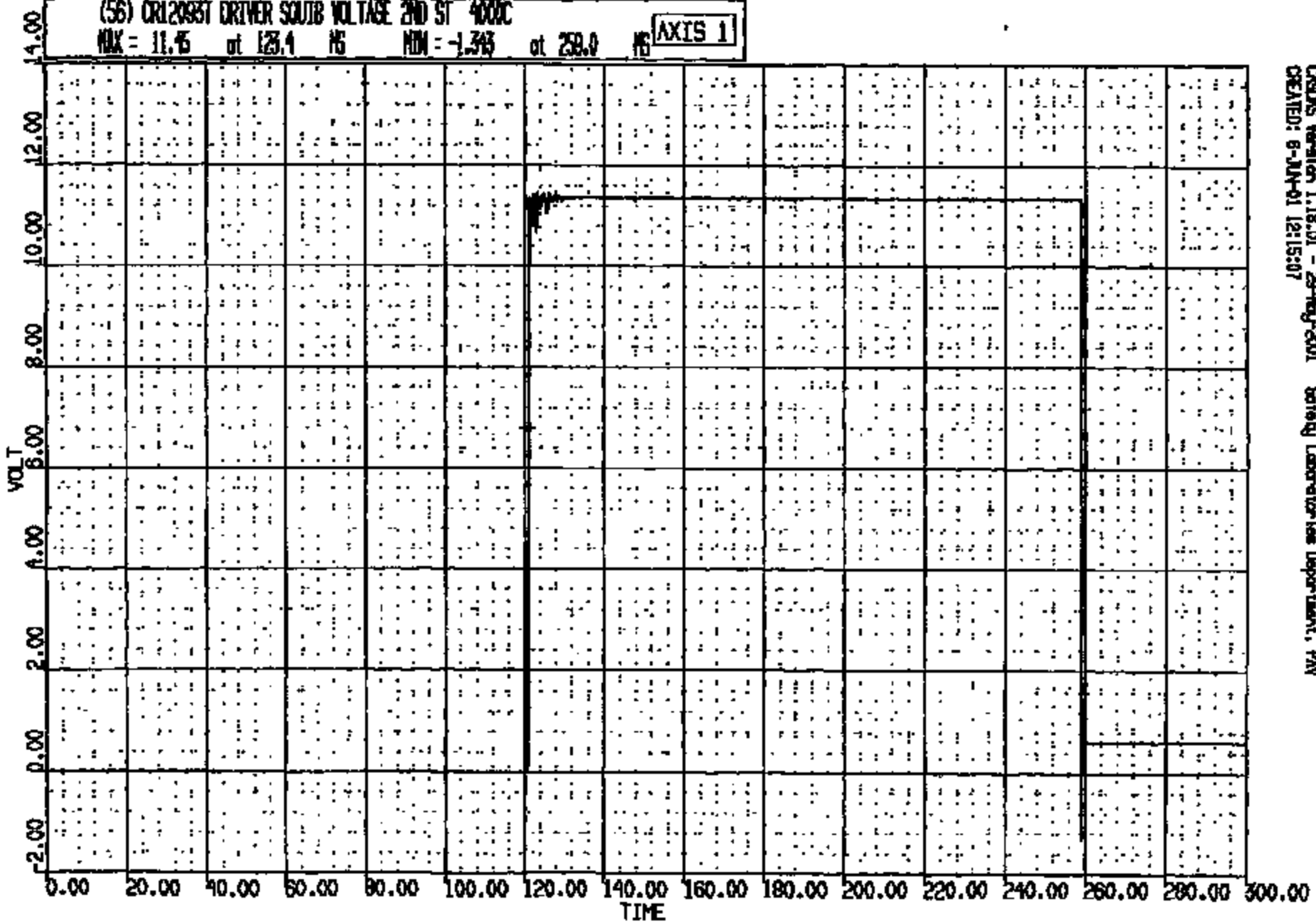


CASMG Version 1.18.01 - 29-May-2001 Safety Laboratories Department, PHV
CREATED: 8-JUN-01 12:15:42

CRTS 0012093

CR R: 12093 TO: TC1831 DATE: 001208 09:29:25
2000 D188

(56) CR120931 DRIVER SCOUTB VOLTAGE 2ND ST 400C
MAX = 11.45 at 123.4 MS MIN = -1.343 at 258.0 MS **AXIS 1**

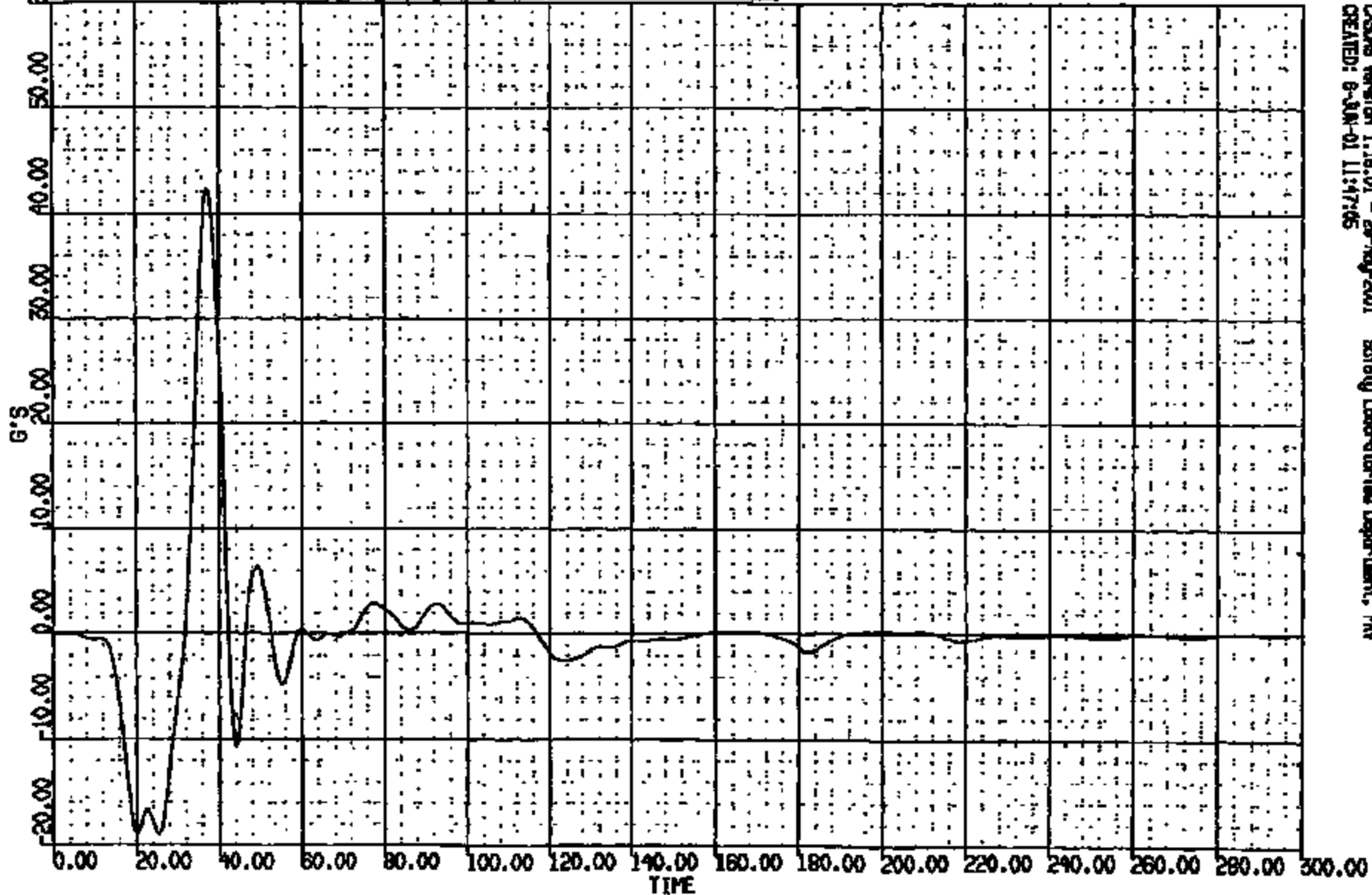


CRS Version 1.18.01 - 29-May-2001 Safety Laboratories Department, PAN
CREATED: 8-MAY-01 12:15:07

CRIS 0012093

DR R: 12093 TO: TC1931 DATE: 001204 09:29:25
2000 DISK

(104) CR12093T ENGINE TRANS BOTTOM LAT 60N
MAX = 42.32 at 37.12 MS MIN = -19.05 at 25.36 MS **AXIS 1**

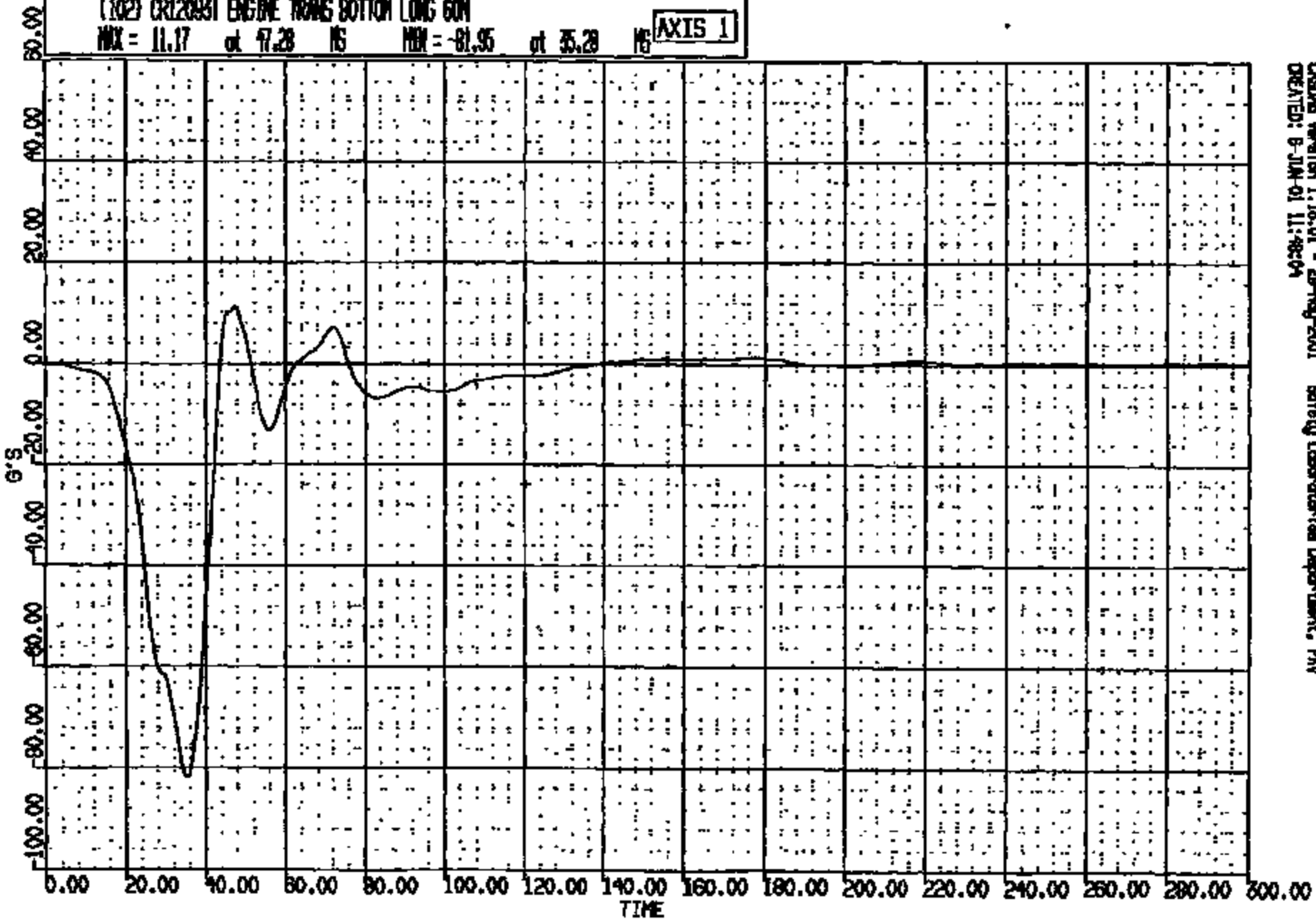


CASRS Version 1.19.01 - 29-May-2001 Safety Laboratories Department, PAW
CREATED: 8-JUN-01 11:17:05

CRIS 0012093

CR R: 12093 TO: YC1931 DATE: 001206 09:29:25
2000 D199

(102) CR120931 ENGINE TRANS BOTTOM LONG GON
MAX = 11.17 at 47.28 MS MIN = -81.95 at 35.28 MS **AXIS 1**



CRS08 Version 1.18.01 - 29-May-2001 Safety Laboratories Department, PHN
CREATED: 8-JUN-01 11:48:04

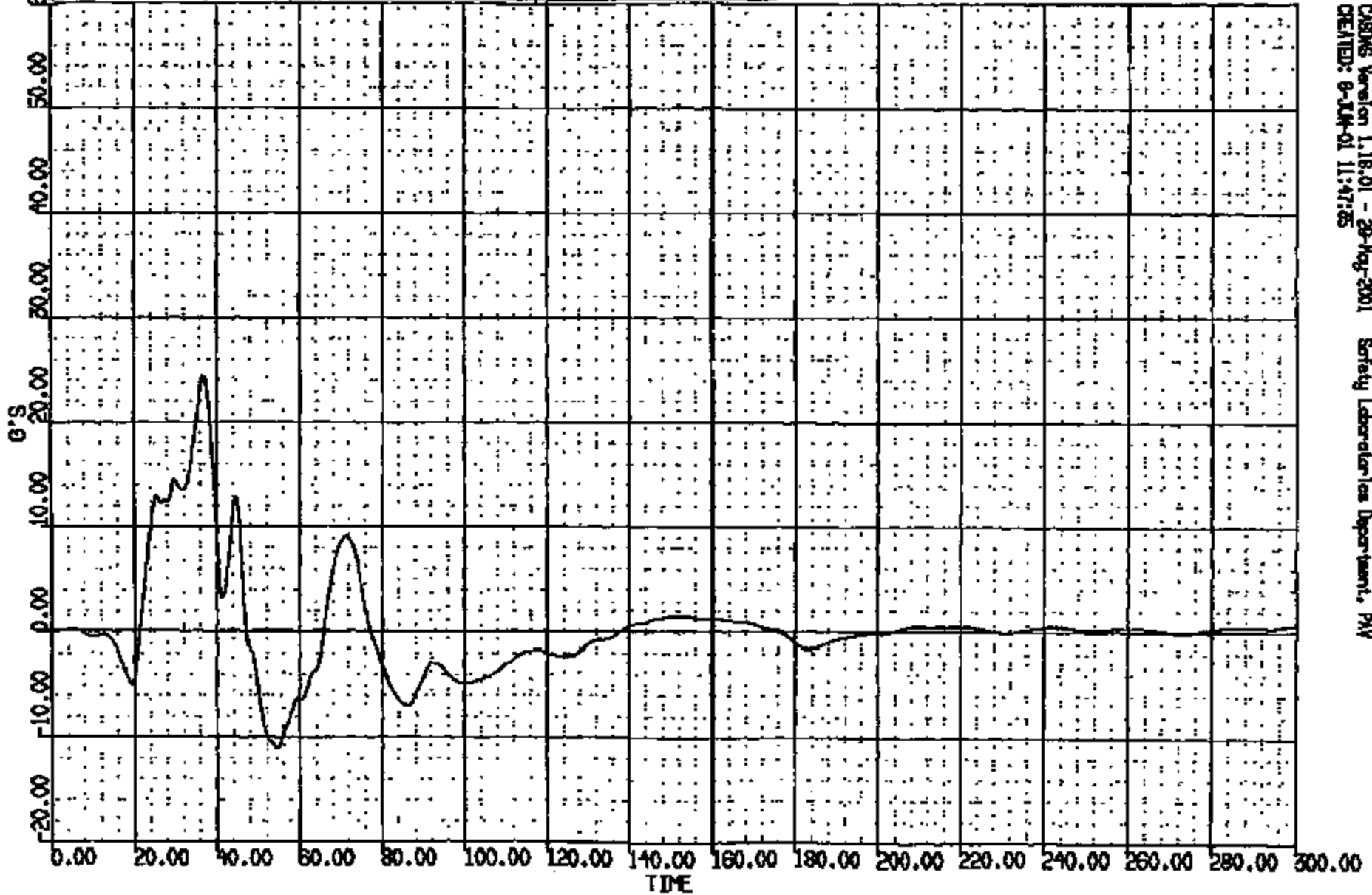
CR120931

DR R: 12093 TO: TC1851 DATE: 001209 09:29:25
2000 DISK

(103) CR12093T ENGINE TRANS BOTTOM VERT GON

MAX = 21.41 at 36.72 MS MIN = -11.08 at 51.58 MS

AXIS 1

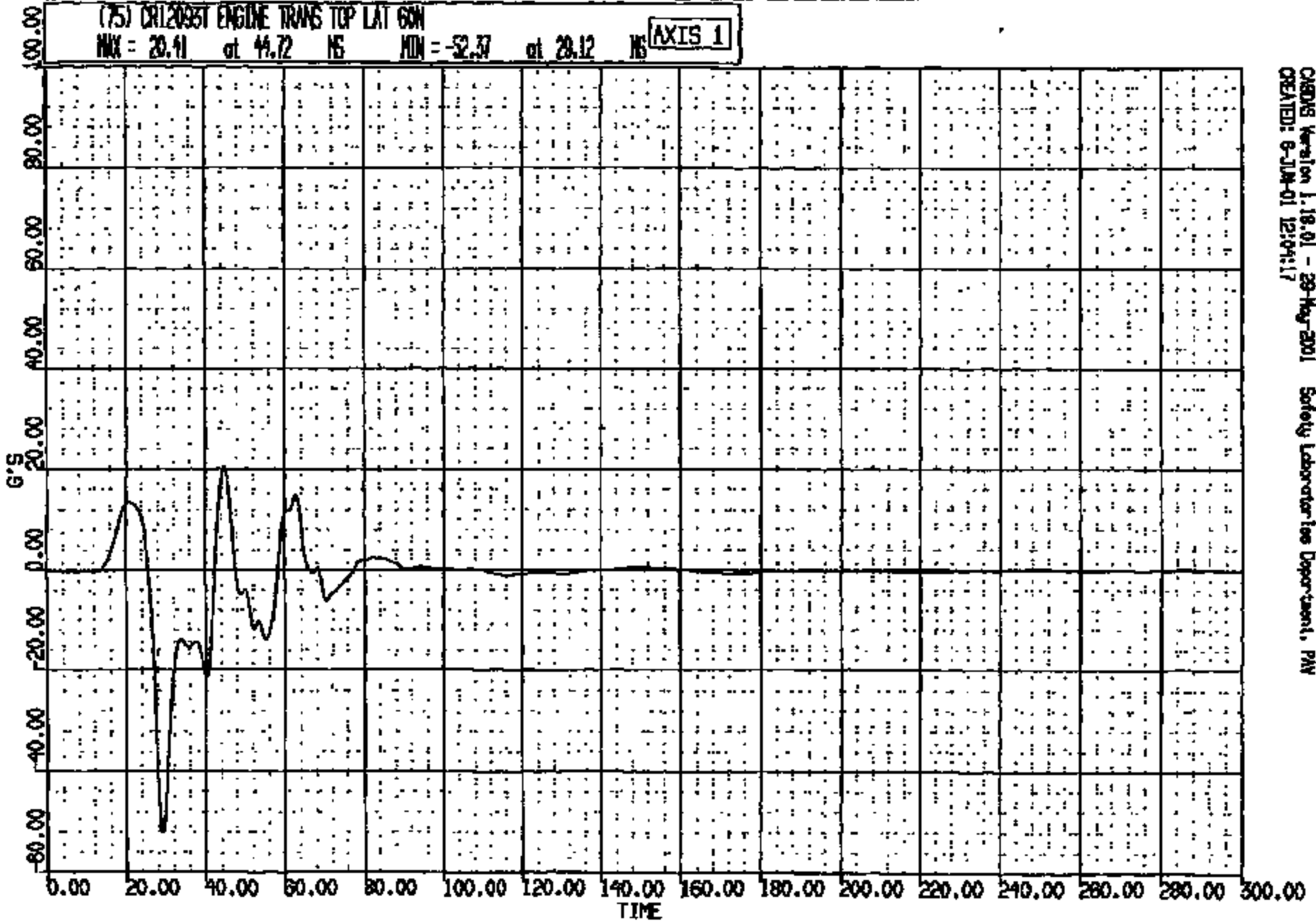


CASMS Version 1.18.01 - 29-Aug-2001 Safety Laboratories Department, PW
CREATED: 9-JUN-01 11:47:55

CRIS 0012093

CR R: 12093 TO: TC1851 DATE: 001208 09:28:25
2000 D188

(75) CR12093T ENGINE TRANS TOP LAT 60N
MAX = 20.41 at 44.72 NS MIN = -52.37 at 28.12 NS **AXIS 1**

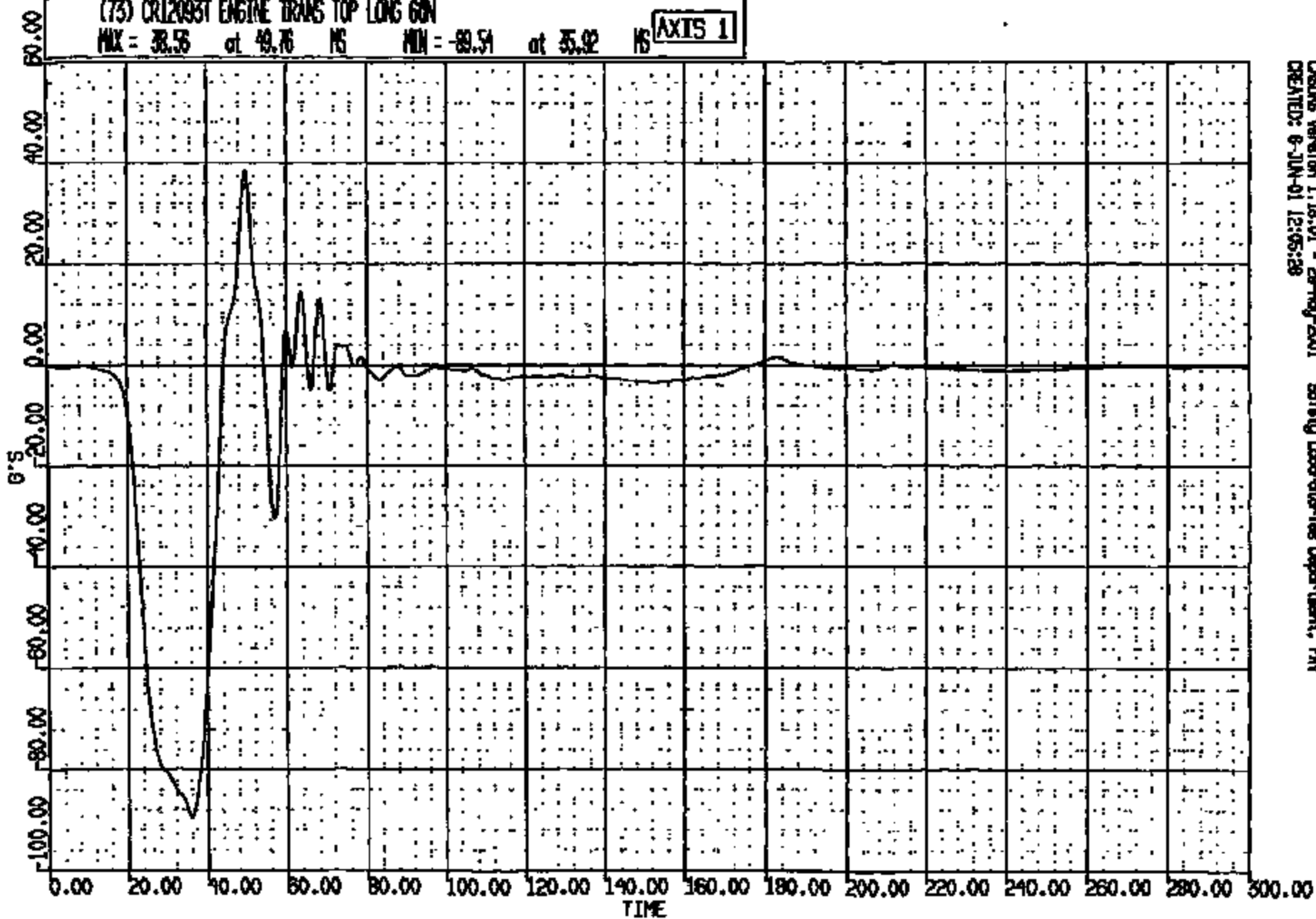


CR12093 Revision 1.18.01 - 29-May-2001 Safety Laboratories Department, PMA
CREATED: 6-JUN-01 12:04:17

CR12093 0012093

CR: R: 12088 TO: TC1831 DATE: 001206 09:28:25
2000 DISB

(73) CR120931 ENGINE TRANS TOP LONG GUN
MAX = 38.55 at 49.76 MS MIN = -89.51 at 35.92 MS **AXIS 1**



CRS05 Version 1.18.01 - 28-May-2001 Safety Laboratories Department, PAW
CREATED: 6-JUN-01 12:05:28

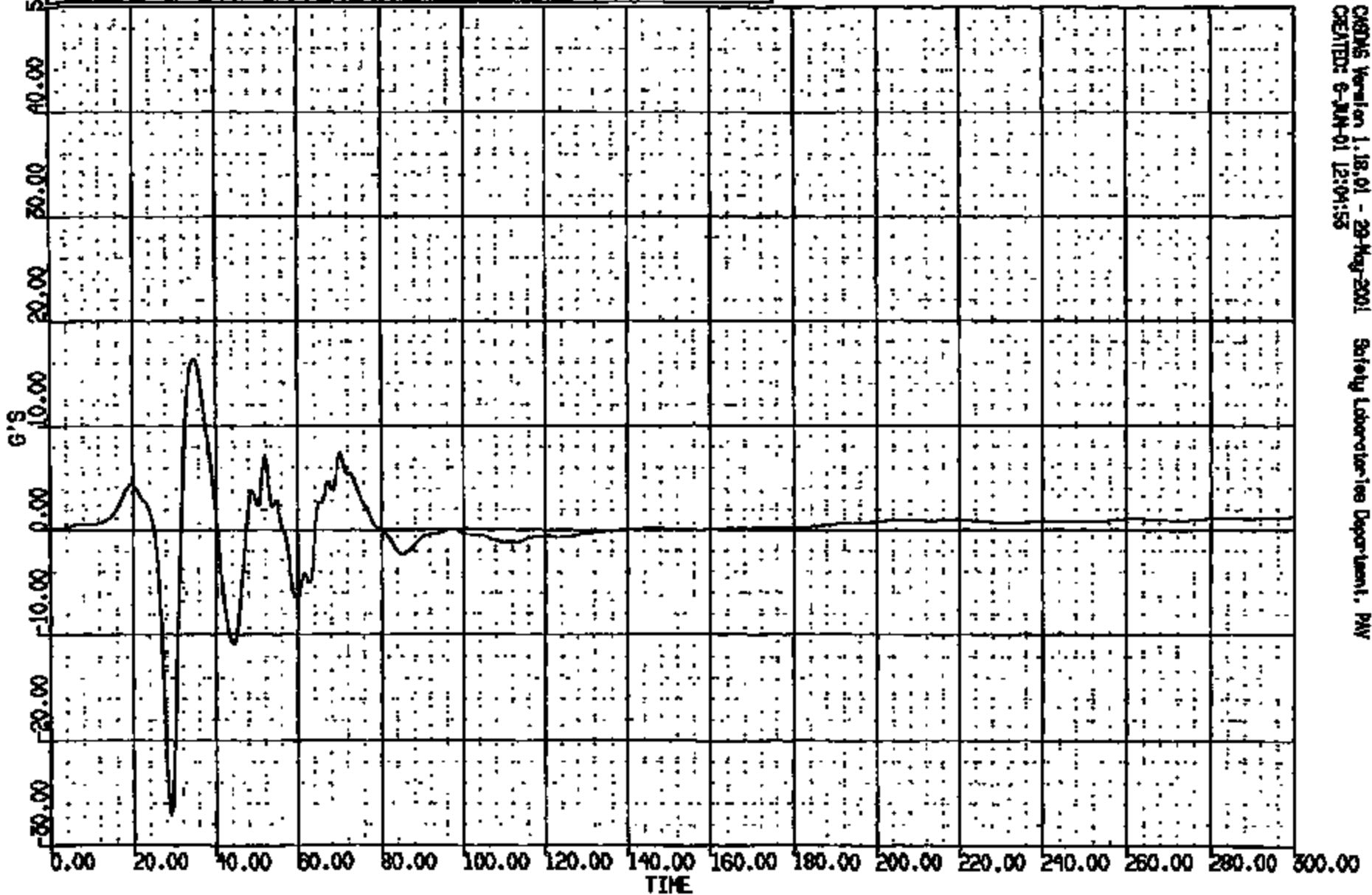
CR1S 0012093

CH R: 12093 TO: TC1881 DATE: 001804 09:28:25
2000 Digs

(74) CR12093 ENGINE TRANS TOP VERT GON

MAX = 16.35 at 35.04 MS MIN = -27.22 at 28.12 MS

AXIS 1



CRONUS Version 1.18.01 - 29-May-2001 Safety Laboratories Department, PAW
CREATED: 6-JUN-01 12:04:53

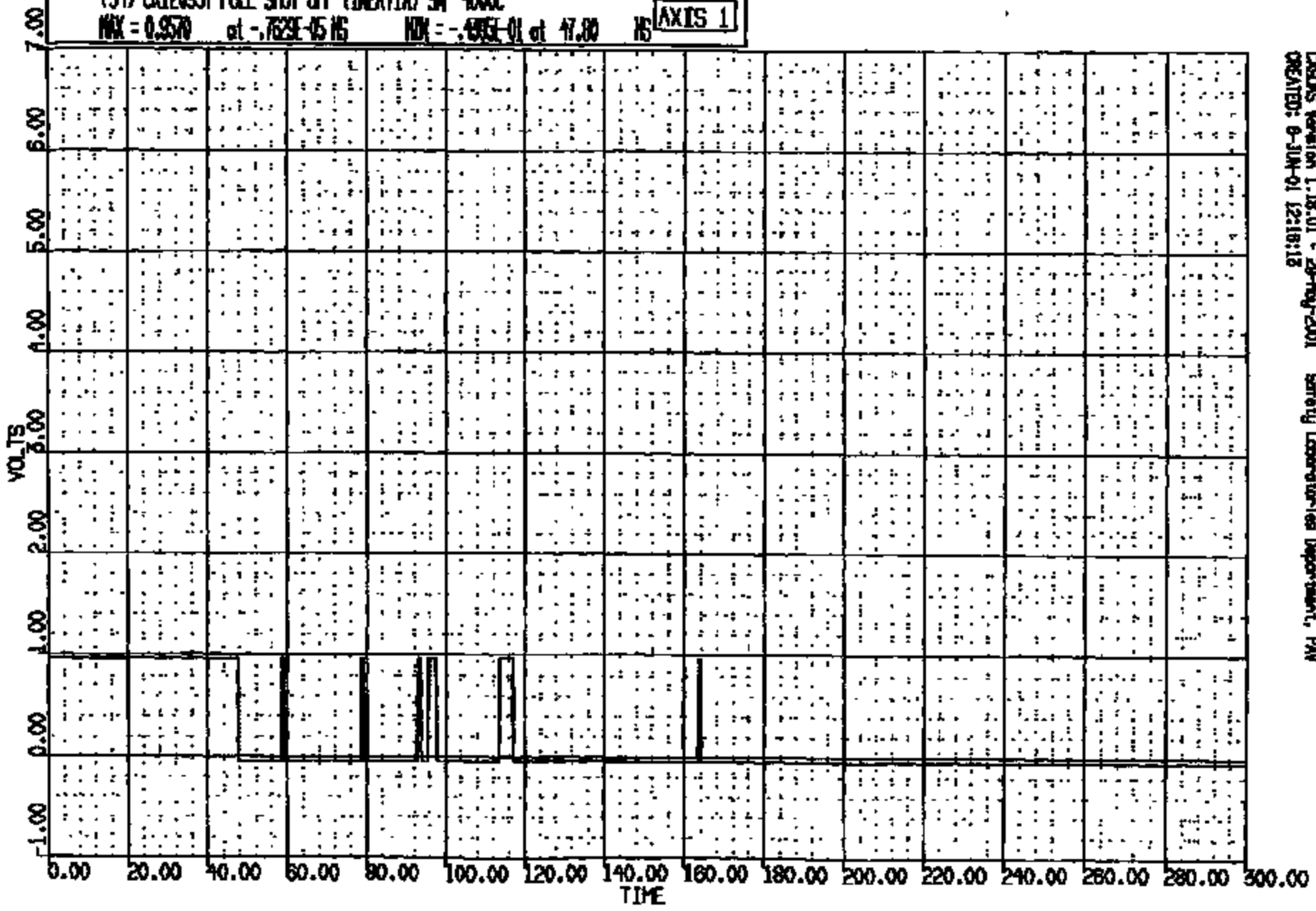
CRIS 0012093

CR 12093 TO: TC1831 DATE: 001209 08:29:26
R000 D189

(54) CR12093 FUEL SHUT OFF (INERTIA) SH 4000

MAX = 0.9570 at -762E-15 HS MIN = -.495E-01 at 47.00 HS

AXIS 1



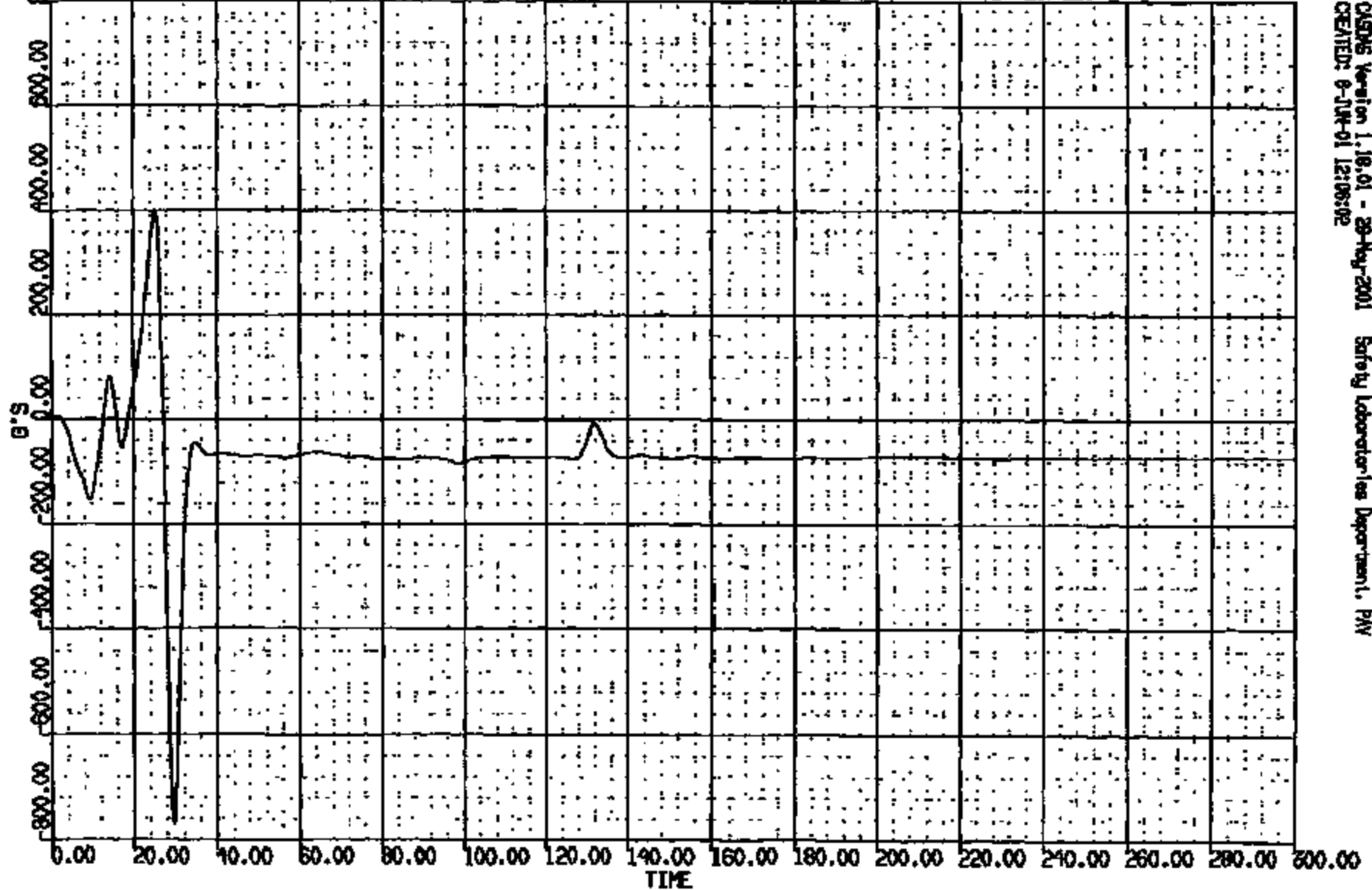
CASDS Version 1.18.01 - 29-May-2001 Safety Laboratories Department, PAW
CREATED: 6-JUN-01 12:18:18

CR12093

CR #: 12093 TO: TC1031 DATE: 001209 09:29:25
2000 D198

(72) CR12093T L/C RAD SUPPORT SH #1 LONG 60N
MAX = 100.4 at 25.20 NS MIN = -789.0 at 29.60 NS **AXIS 1**

ANOMALY KEY:
* = Raw data exceeded full scale
= Interval stop >90.0% of full scale
^ = All data < 12.5% of full scale
@ = 21 percent offset at T-zero



CASMS Version 1.18.01 - 29-May-2001 Safety Laboratories Department, PAW
CREATED: 9-JUN-01 12:08:12

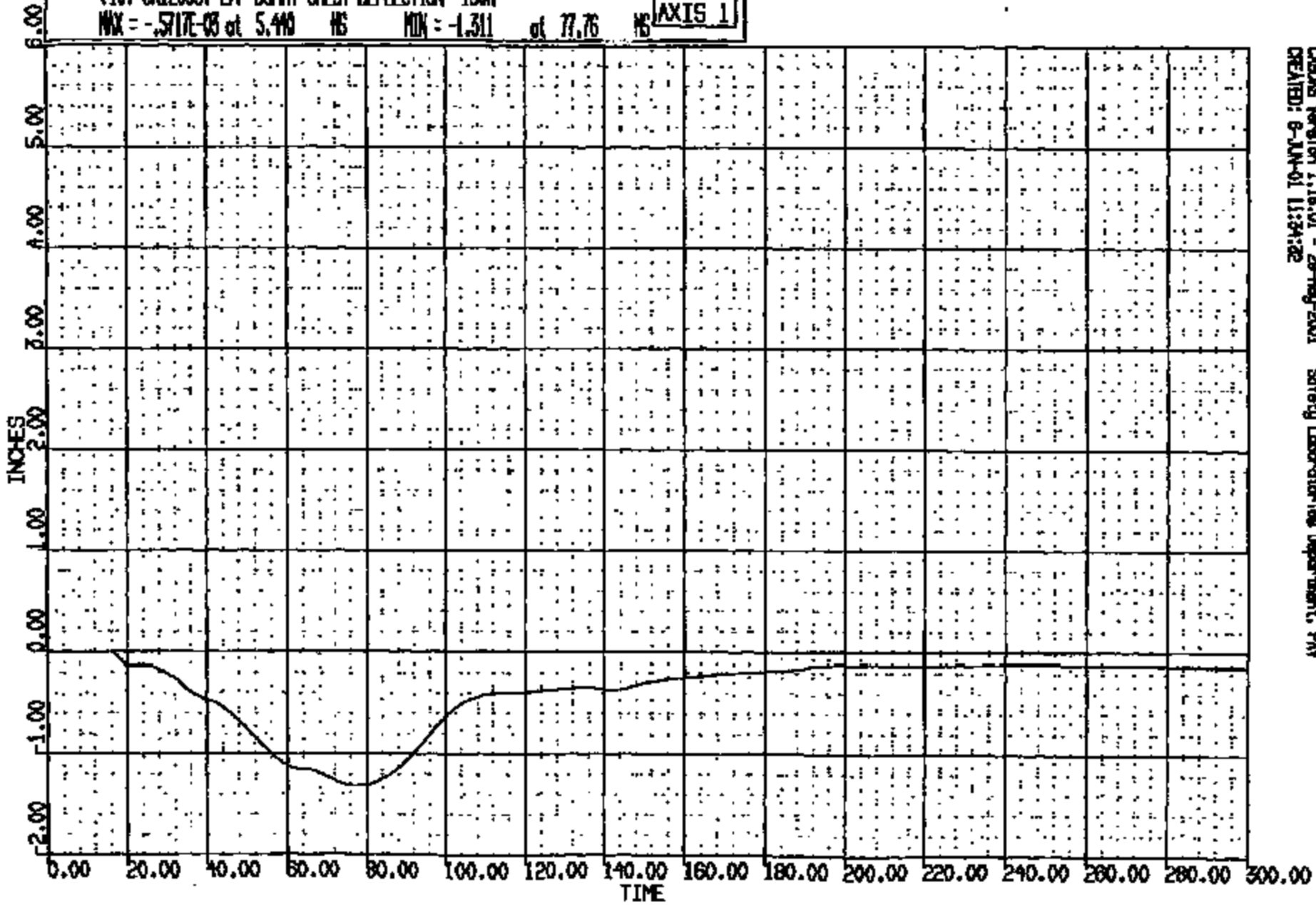
CRTS 0012093

CR R: 12095 TO: TC1851 DATE: 001208 09:28:25
2000 D188

(10) CR12095T L/F DUMMY CHEST DEFLECTION 180N

MAX = -.5717E-03 at 5.440 MS MIN = -1.311 at 77.76 MS

AXIS 1



CHDS Version 1.18.01 - 29-May-2001 Safety Laboratories Department, PAH
CREATED: 6-JUN-01 11:34:22

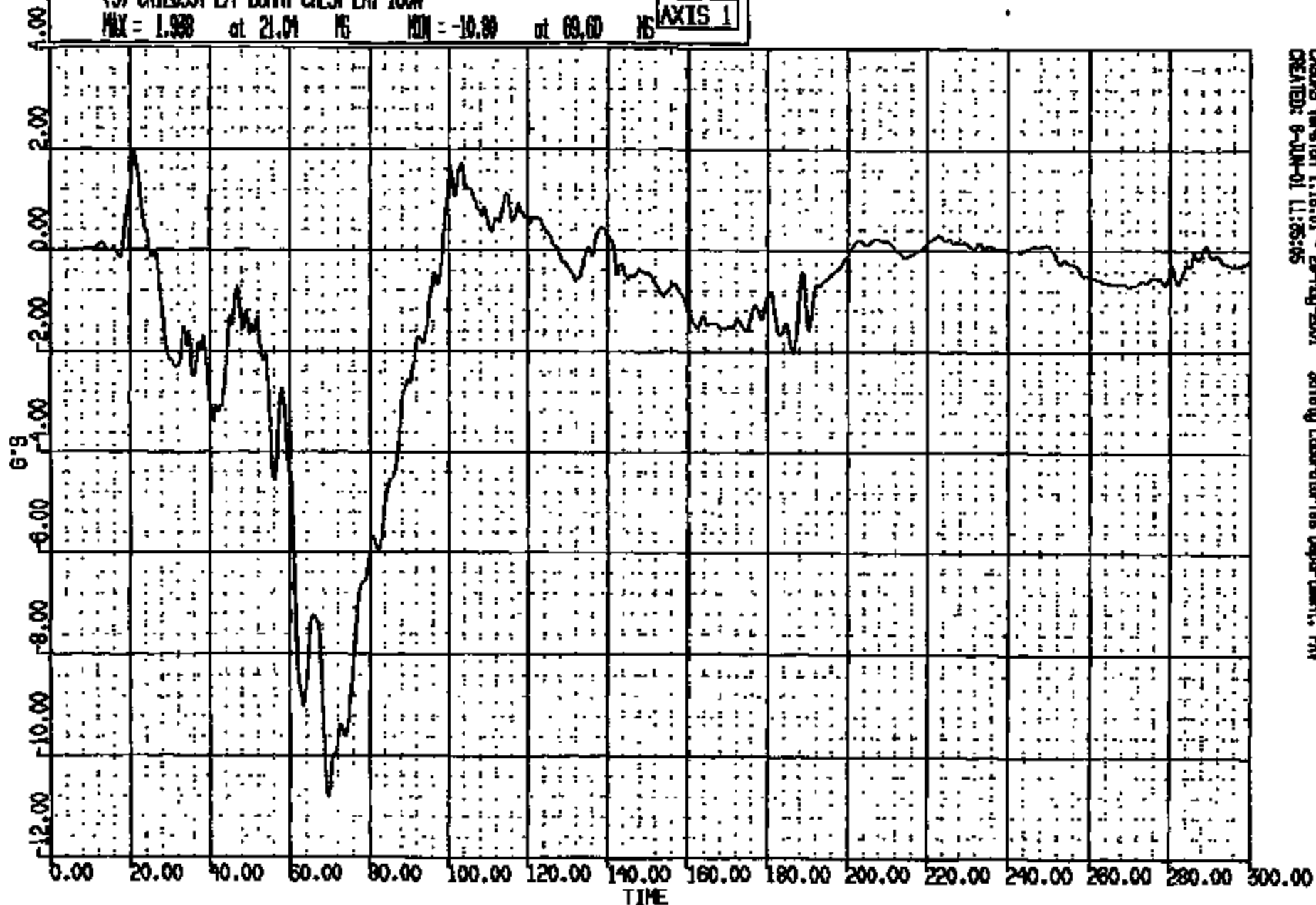
CRTS 0012093

CR R: 12093 TO: TC1831 DATE: 001204 09:29:25
2000 D196

(9) CR12093T L/F DUNNY CHEST LAT 180N

MAX = 1.988 at 21.04 MS MIN = -10.89 at 69.60 MS

AXIS 1

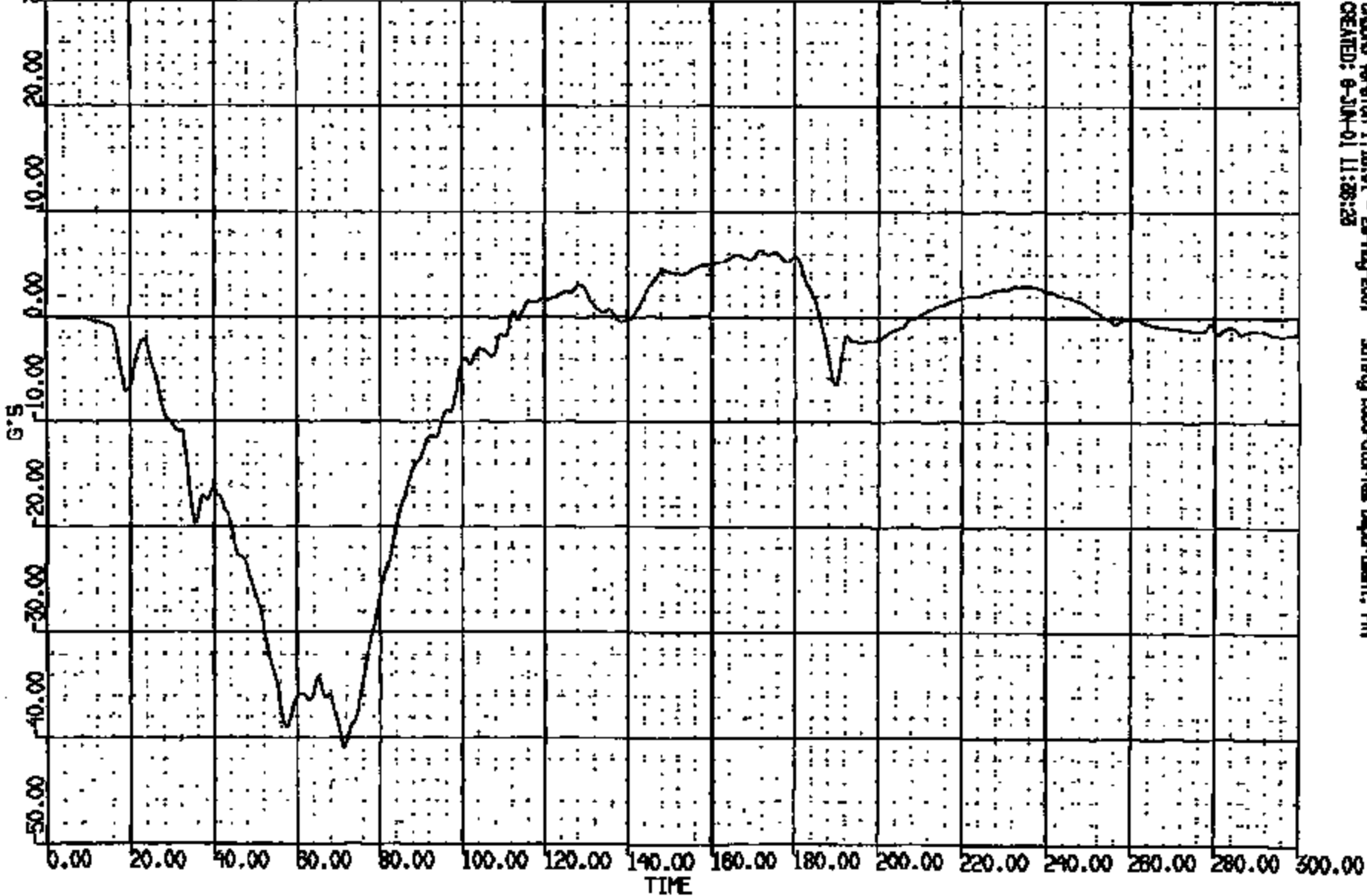


CADDS Version 1.18.01 - 29-May-2001 Safety Laboratories Department, PAW
CREATED: 9-JUN-01 11:26:05

CR12093T

BY R: 12085 TO: TC1831 DATE: 001206 09:28:25
8000 DISG

(7) CR12085T L/F DUMMY CHEST LONG 100M
MAX = 6.377 at 171.8 MS MIN = -40.90 at 71.44 MS **AXIS 1**

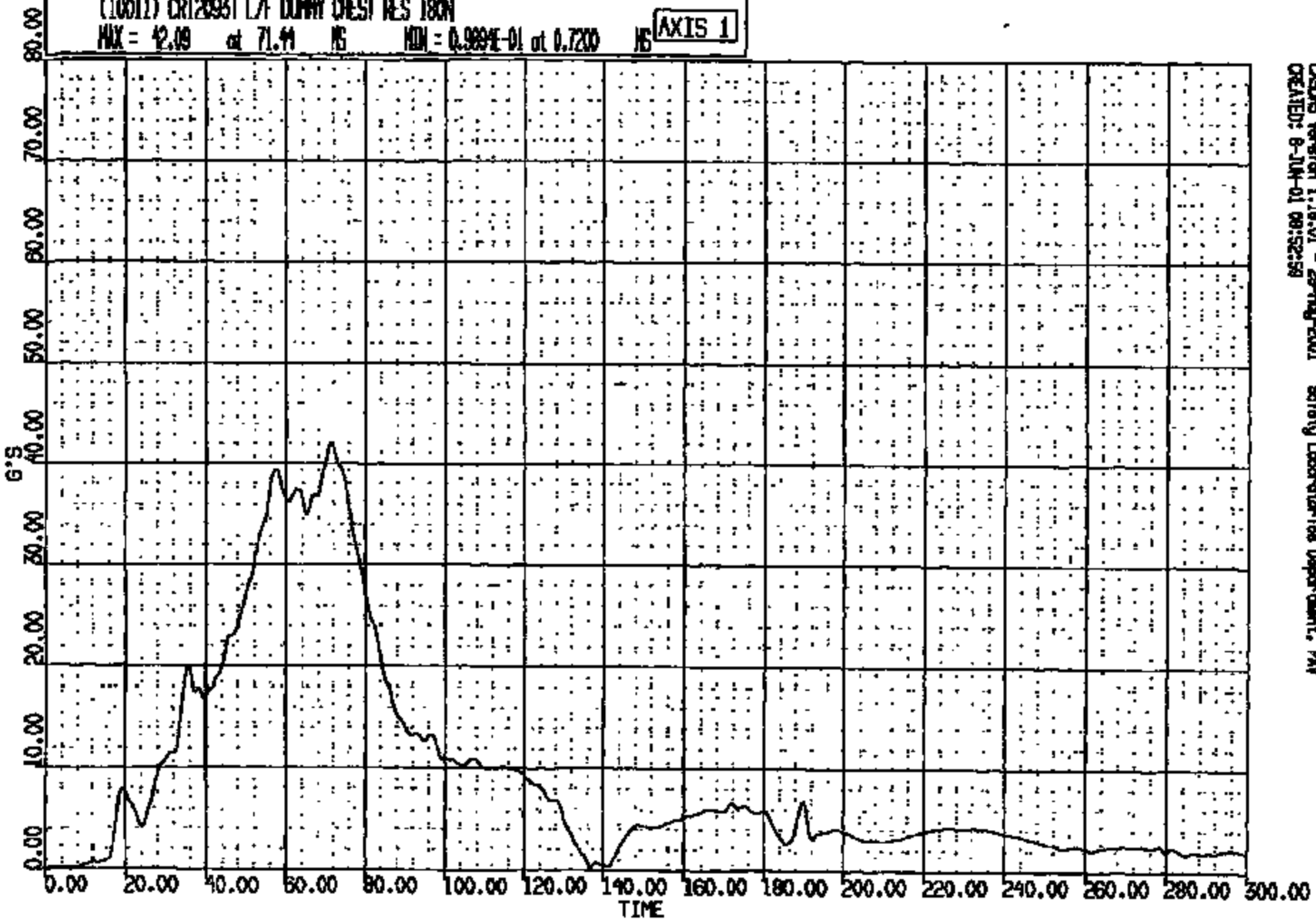


CRS016 Version 1.18.01 - 29-May-2001 Safety Laboratories Department, PNV
CREATED: 9-JUN-01 11:28:28

CR12085T 0012093

CRK R: 12095 TO: TC1831 DATE: 001206 09:29:25
M000 D188
CLMDUR = 40.235 Duration time = 2.9987

(1001) CR12095T L/F DUMMY CHEST RES 180N
MAX = 42.09 at 71.44 NS MIN = 0.9894E-01 at 0.7200 NS **AXIS 1**



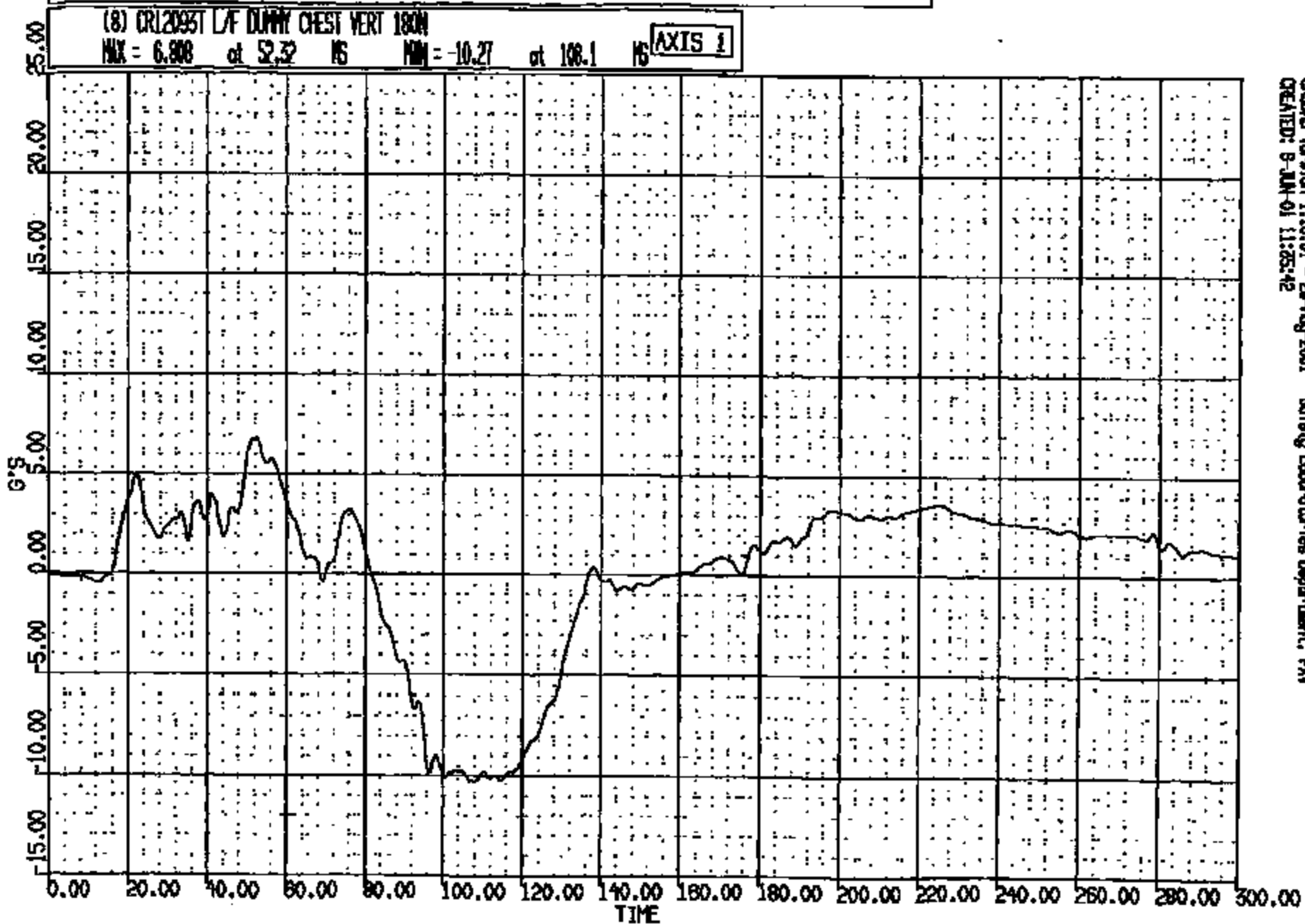
CAQMS Version 1.18.01 - 29-Aug-2001 Safety Laboratories Department, PAW
CREATED: 8-JUN-01 09:52:59

CRIS 0012093

RT R: 12093 TO: TC1831 DATE: 001206 09:29:25
0000 D189

(8) CR12093T L/F DUMMY CHEST VERT 180N

MAX = 6.808 at 52.32 MS MIN = -10.27 at 108.1 MS **AXIS 1**



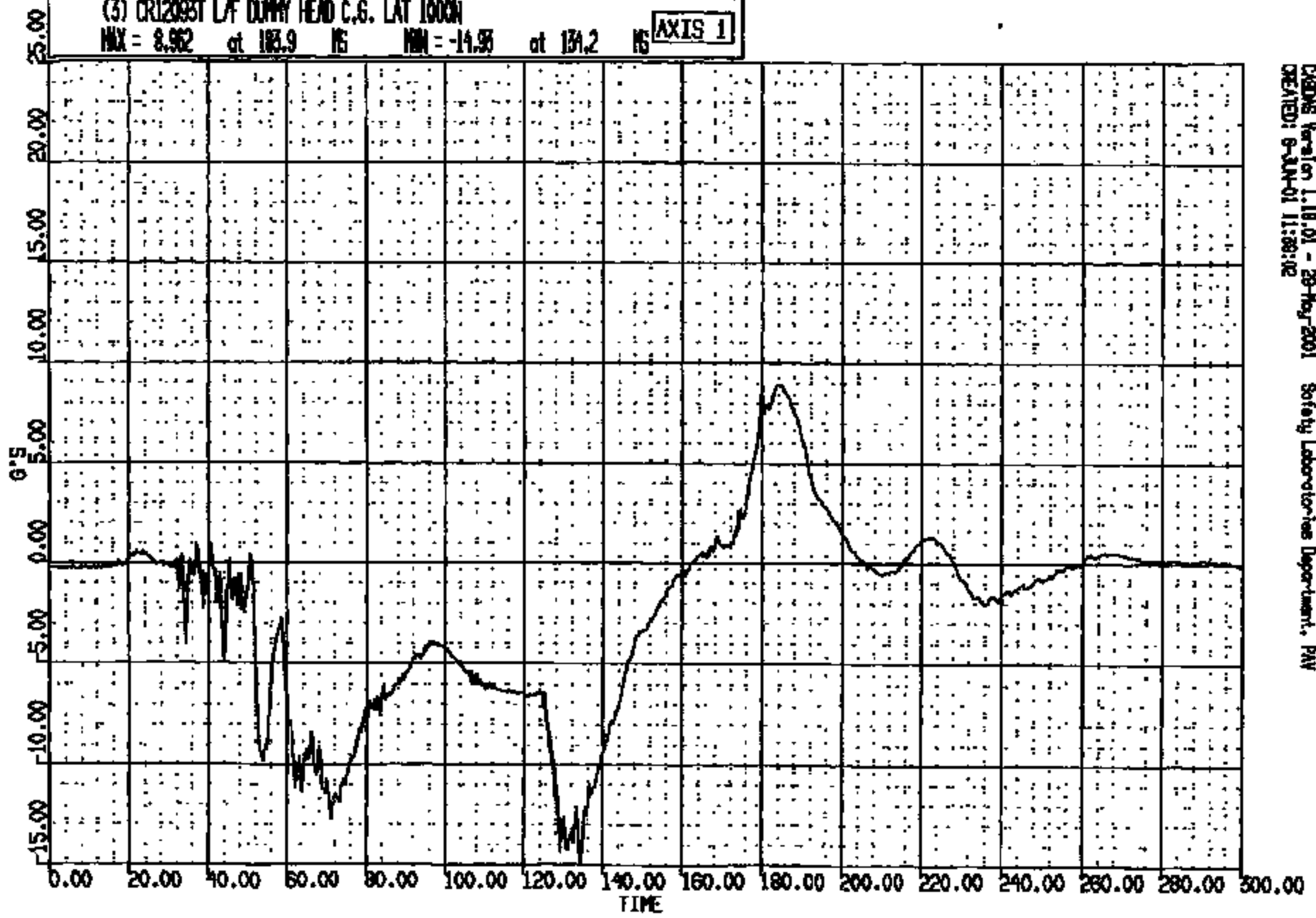
CGAS Version 1.18.01 - 29-Aug-2001
CREATED: 8-JUN-01 11:25:42

Safety Laboratories Department, PAW

CR1S 0012093

CR: R: 12093 TO: TC1631 DATE: 001208 09:29:23
2000 D168

(3) CR12093T L/F DUMMY HEAD C.G. LAT 1000N
MAX = 8.962 at 183.9 NS MIN = -14.95 at 134.2 NS **AXIS 1**

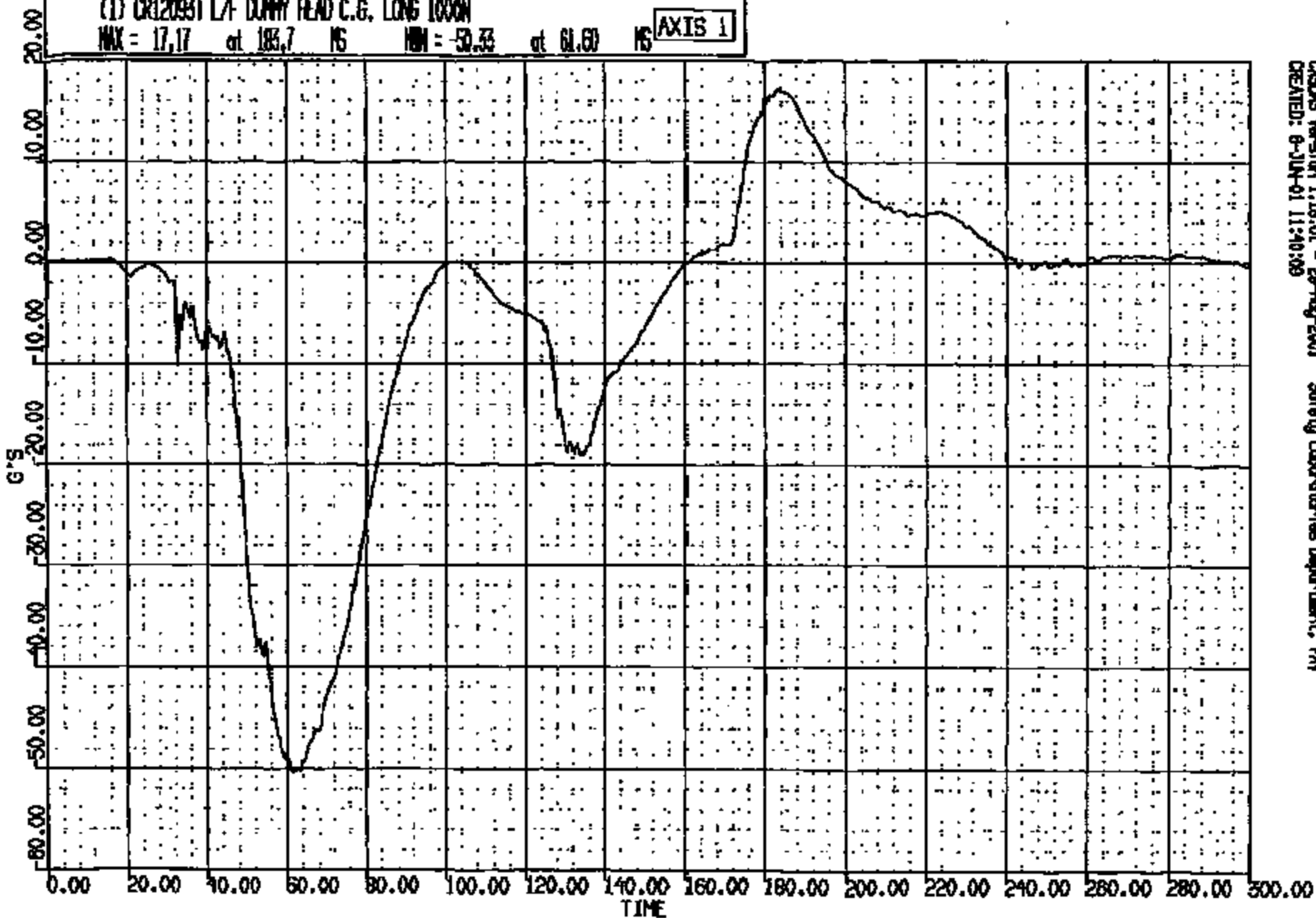


CRIONS Version 1.18.01 - 29 May 2001 Safety Laboratories Department, PAN
CREATED: 8-JUN-01 11:30:02

CRIS 0012093

CR R: 12093 TO: TC1851 DATE: 001208 09:29:26
2000 D186

(1) CR120931 L/F DUMMY HEAD C.G. LONG 1000N
MAX = 17.17 at 183.7 MS MIN = -50.33 at 61.60 MS **AXIS 1**

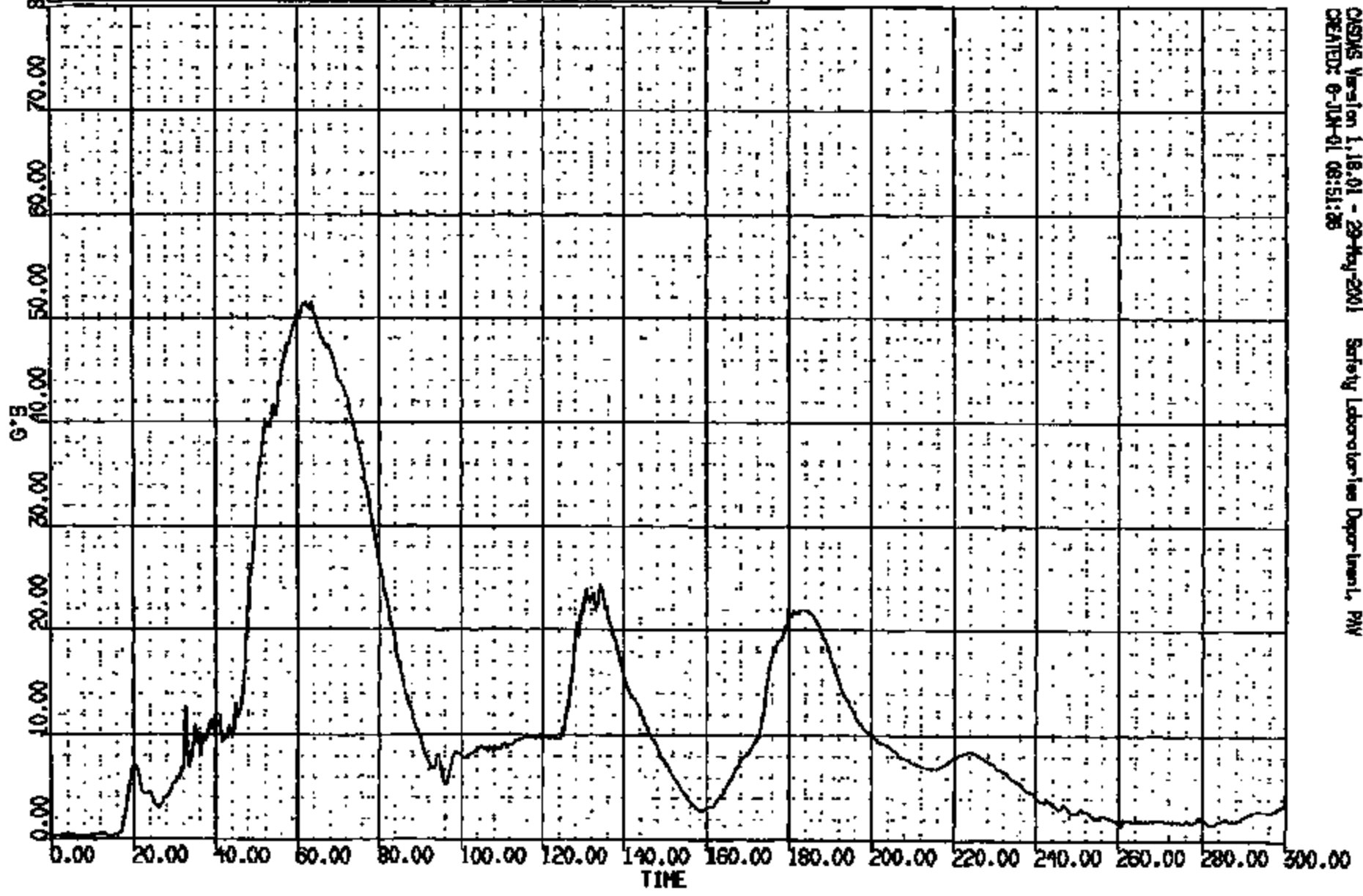


CASDS Version 1.18.01 - 29-May-2001 Safety Laboratories Department, PHV
CREATED: 6-JUN-01 11:40:09

CRTS 0012093

INCR: 12093 TO: TC1931 DATE: 001209 09:29:28
 ITH00: 0199
 ITH01: 004. DUR: 240.0 T1/TN: 7.00.00 // 80.00
 ITH02: 004. DUR: 60.0 T1/TN: 1.00.00 // 10.00
 ITH03: 001. DUR: 15.0 T1/TN: 0.00.00 // 1.00

(10005) CR12093T L/F DUMMY HEAD C.G. RES 1000N
 MAX = 51.49 at 63.35 MS MIN = 0.1849 at 9.120 MS **AXIS 1**

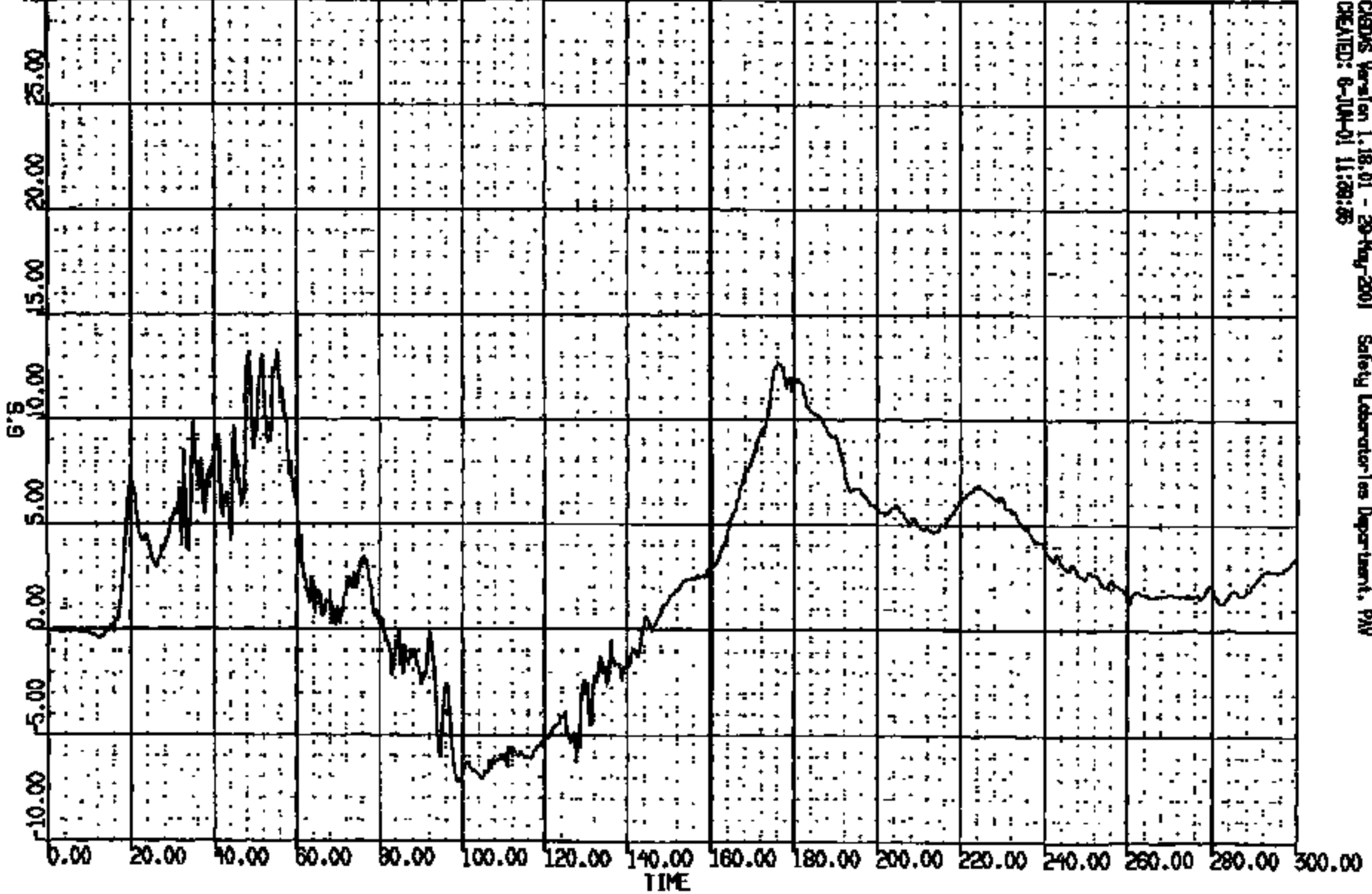


CSDMS Version 1.18.01 - 29-May-2001 Safety Laboratories Department, PHV
 CREATED: 6-JUN-01 09:51:28

CRTS 0012093

R: 12093 TO: TC1851 DATE: 001204 09:28:26
2000 D198

(2) CR12093T L/F DUMMY HEAD C.G. VERT 100CM
MAX = 13.23 at 55.44 MS MIN = -7.227 at 98.80 MS **AXIS 1**

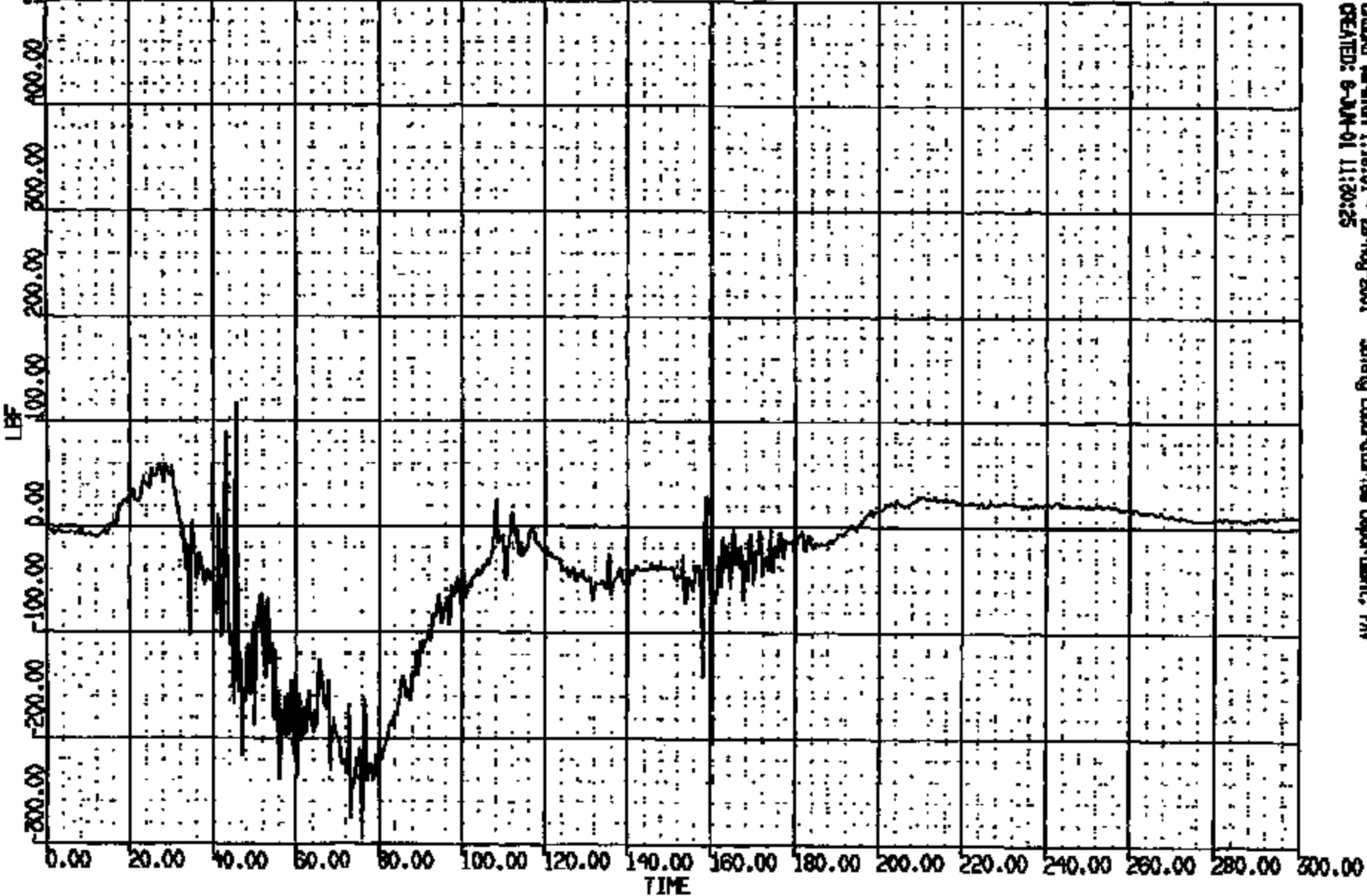


CRSWS Version 1.18.01 - 29-May-2001 Safety Laboratories Department, PNV
CREATED: 6-JUN-01 11:28:26

CRIS 0012093

CA R: 12095 TO: TC1881 DATE: 001206 08:28:28
2000 D188

(17) CR12095T L/F DUMMY LATENT LOAD FZ 600N
MAX = 117.2 at 45.52 NS MIN = -233.0 at 76.16 NS **AXIS 1**

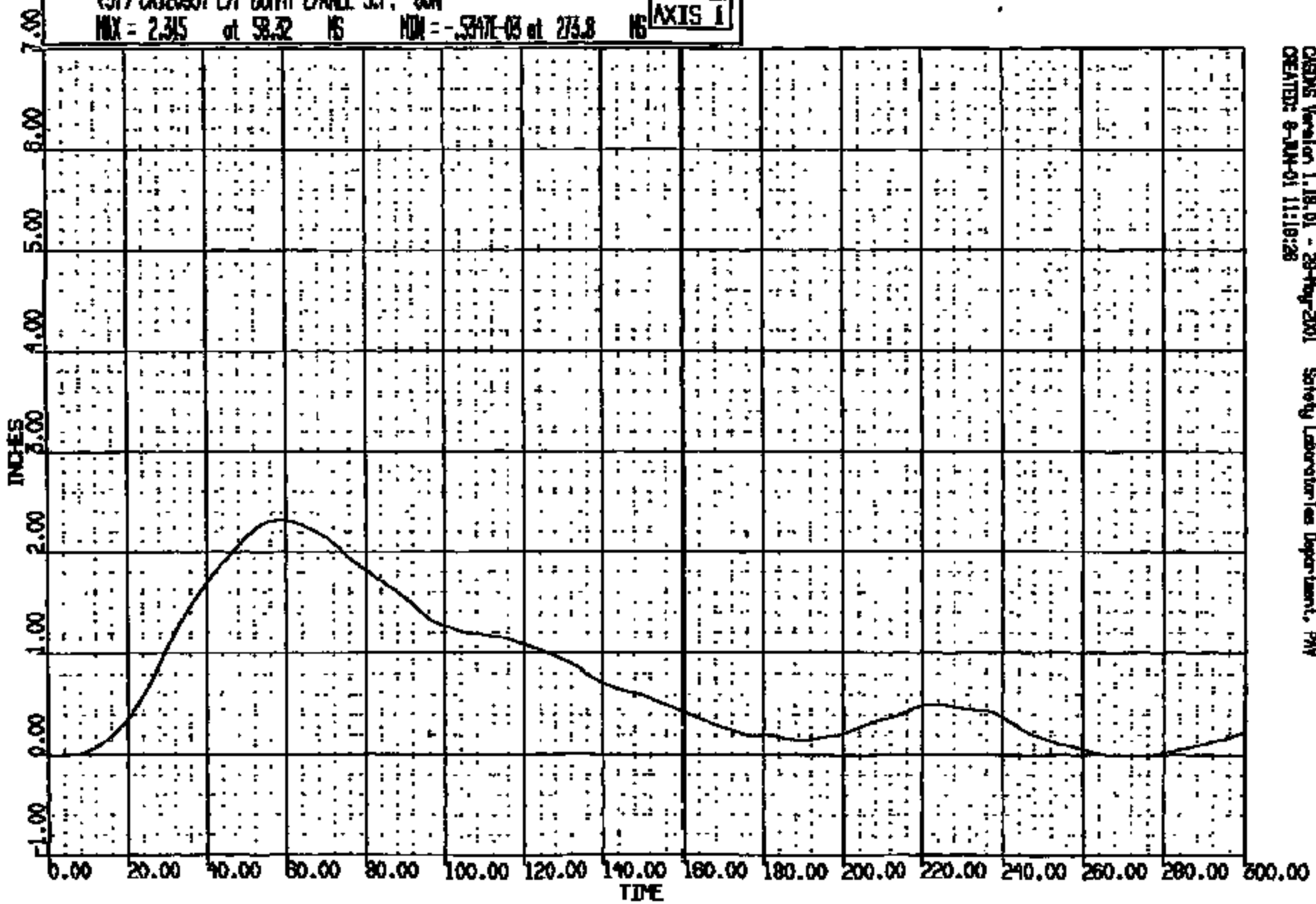


CRSIS Version 1.18.01 - 29-May-2001 Safety Laboratories Department, PHV
CREATED: 6-JUN-01 11:20:25

CRIS 0012093

CP: R: 12093 TO: TC1851 DATE: 001206 09:28:25
2000 D186

(37) CR120931 L/F DUMMY LADDER S.P. 60N
MAX = 2.315 at 58.32 NS MIN = -.5747E-03 at 273.8 NS **AXIS 1**

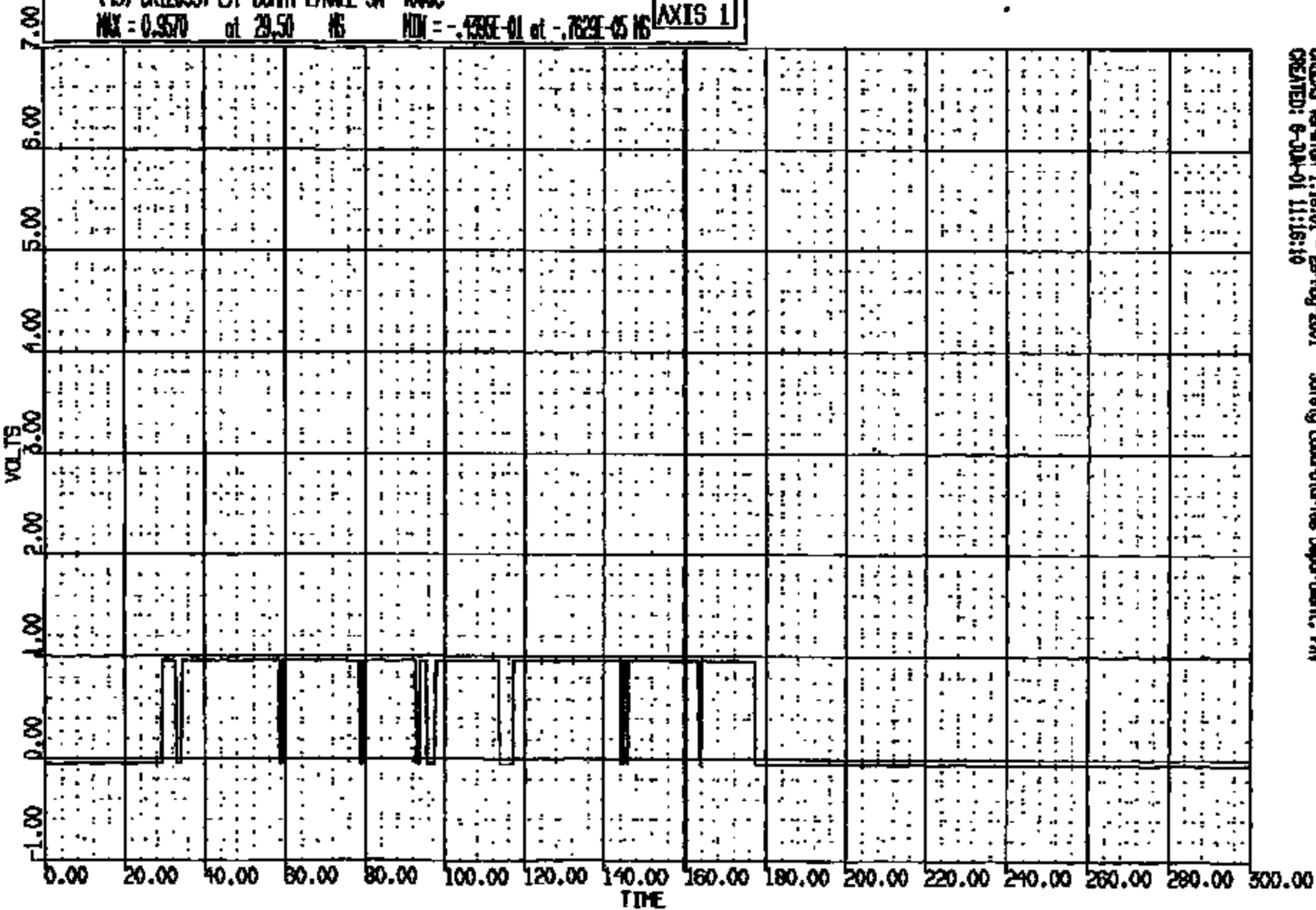


CRS05 Version 1.18.01 - 29-May-2001 Safety Laboratories Department, PMW
CREATED: 6-JUN-01 11:19:28

CRIS 0012093

CM R: 12093 TO: TC1881 DATE: 001206 09:29:25
8000 D190

(49) CR12093T L/F DUMMY LAJEE SH 400C
MAX = 0.9570 at 29.50 NS MIN = -.439E-01 at -.762E-05 NS **AXIS 1**

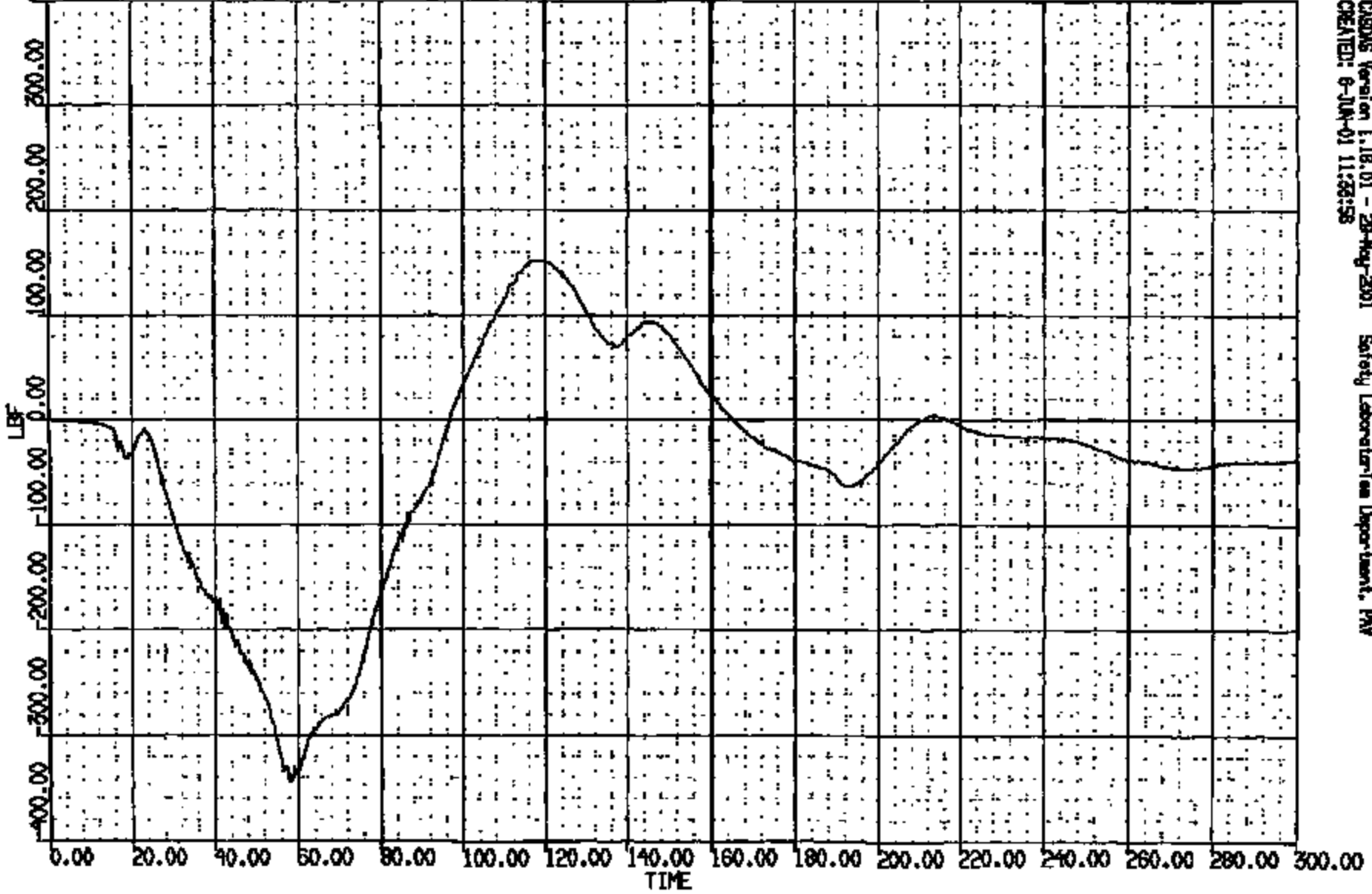


CRSAS Version 1.19.01 - 29-May-2001 Safety Laboratories Department, PHV
CREATED: 6-JUN-01 11:16:10

CRTS 0012093

CY R: 12088 TO: TG1881 DATE: 001206 08:28:26
2000 D188

(11) CR12088T L/F DUMMY LUMBAR SPINE LOAD FX 1000N
MAX = 152.6 at 119.5 MS MIN = -344.4 at 57.92 MS **AXIS 1**



CRIDAS Version 1.18.01 - 28-May-2001 Safety Laboratories Department, PNV
CREATED: 6-JUN-01 11:26:58

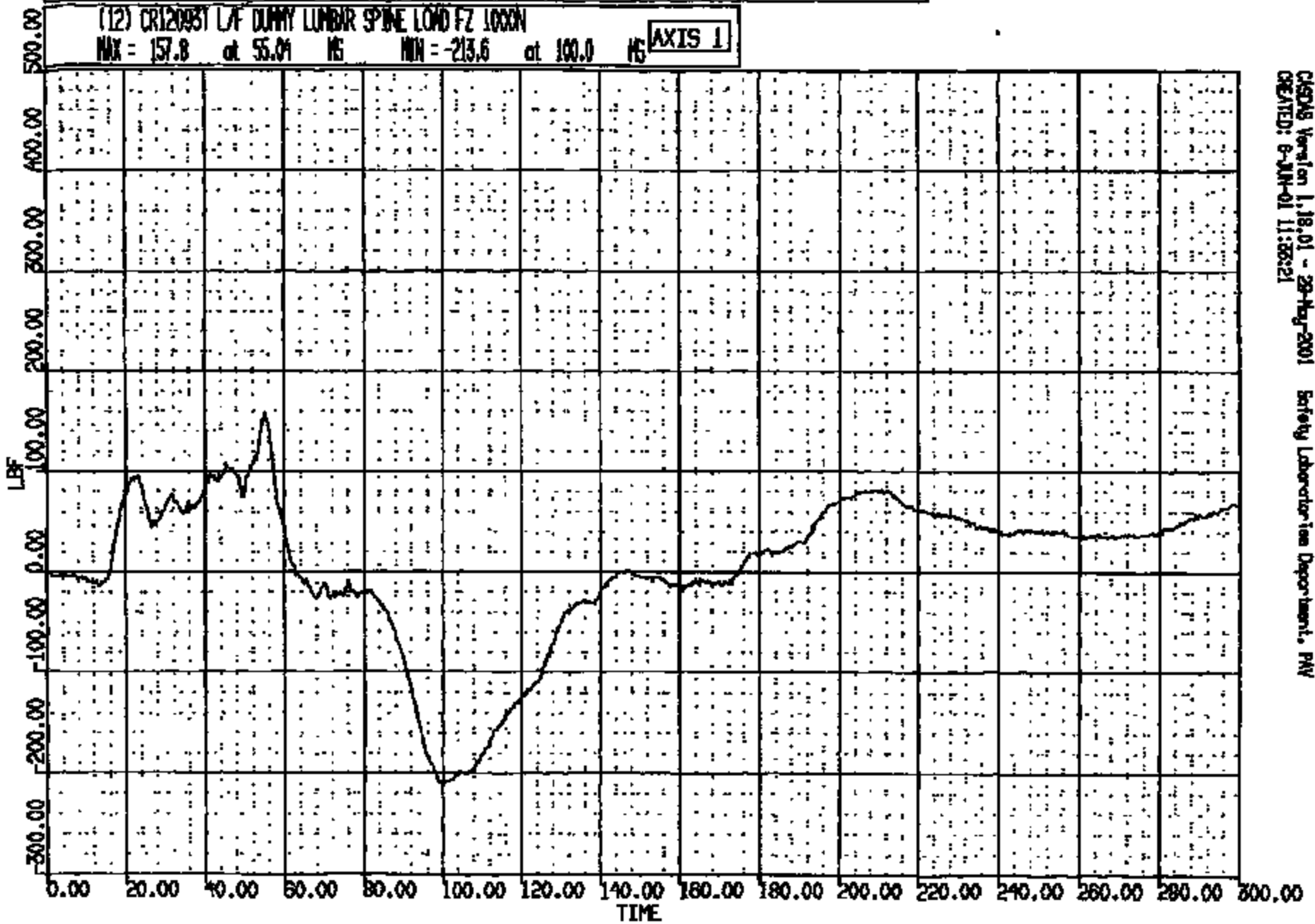
CR12088T 0012093

CR 01 18093 TO: TC1831 DATE: 001206 08:29:25
2000 D166

(12) CR120931 LAF DUMMY LUMBAR SPINE LOAD FZ 100XN

MAX = 157.8 at 55.01 MS MIN = -213.6 at 100.0 MS

AXIS 1



CRSAS Version 1.18.01 - 29-May-2001 Safety Laboratories Department, PNW
CREATED: 6-JUN-01 11:55:21

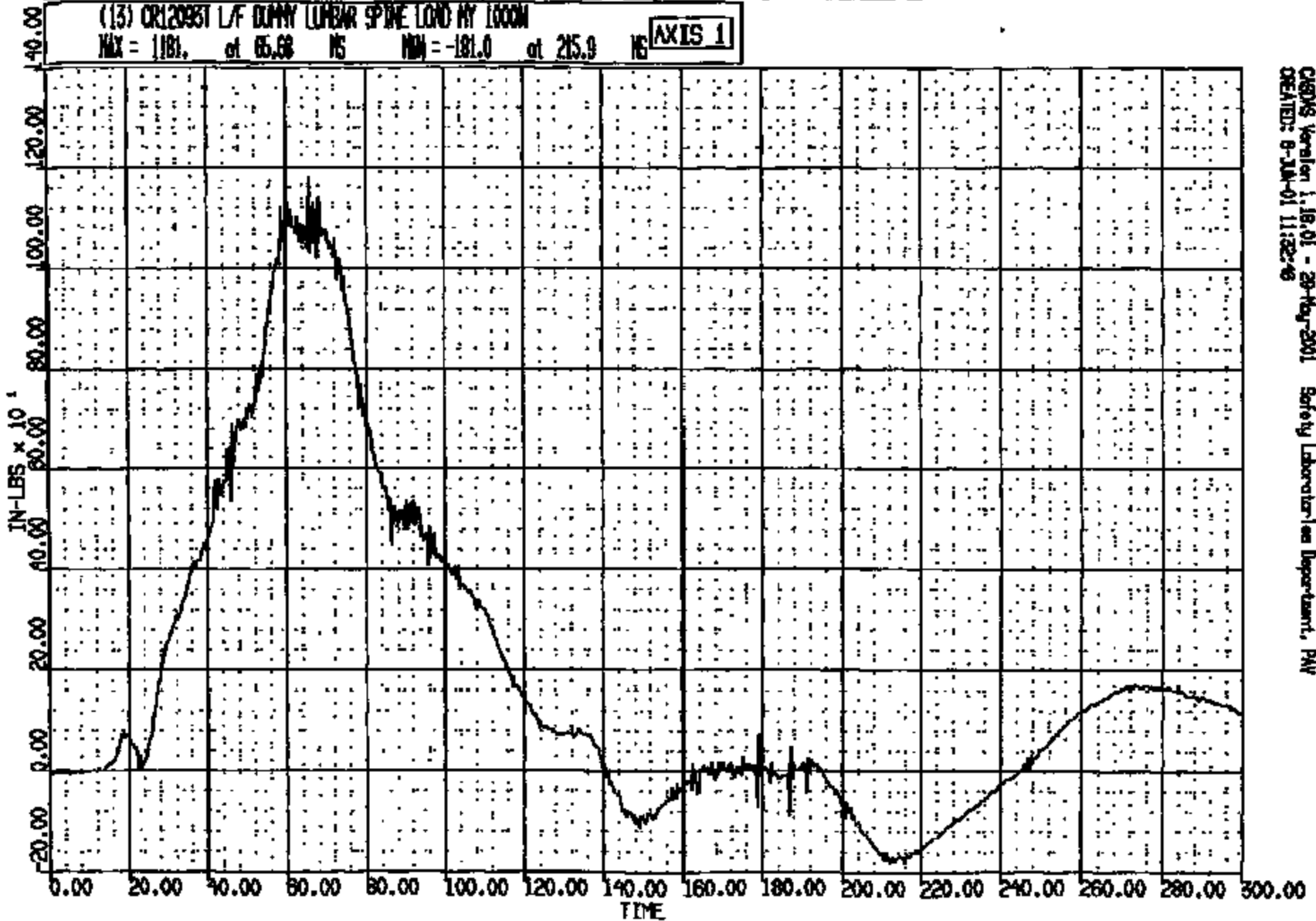
CR120931

CT R: 12093 TO: TC1231 DATE: 001206 09:28:25
W000 D188

(13) CR120931 L/F DUMMY LUMBAR SPINE LOAD NY 1000M

MAX = 1181. at 65.68 NS MIN = -181.0 at 215.9 NS

AXIS 1



CRDS Version 1.18.01 - 29-May-2001 Safety Laboratories Department, PAW
CREATED: 6-JUN-01 11:32:48

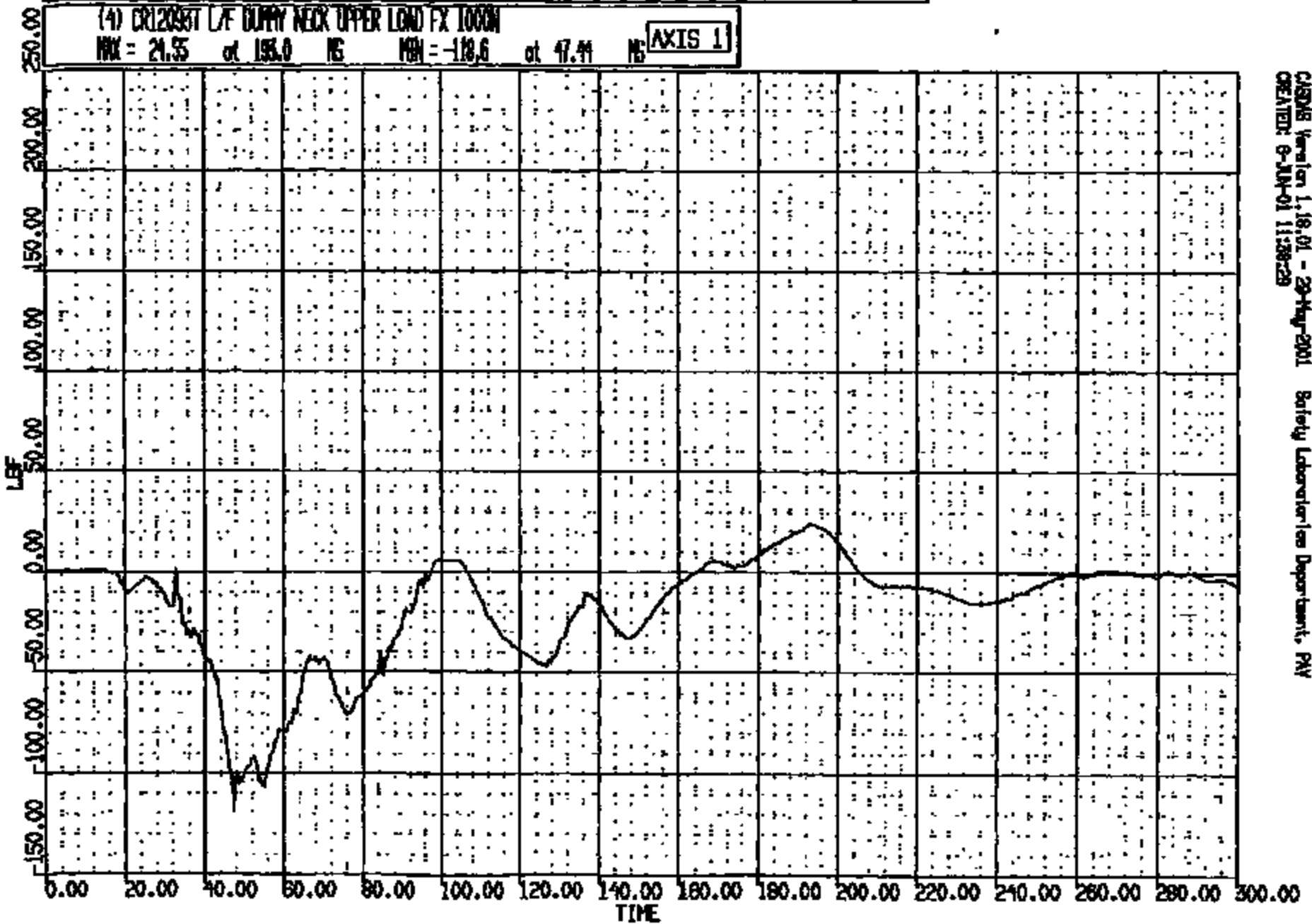
CRTS 0012093

CA R: 12095 TO: TC1931 DATE: 001208 09:28:25
2000 D198

(4) CR12095T L/F DUMMY NECK UPPER LOAD FX 1000N

MAX = 21.55 at 193.0 MS MIN = -118.6 at 47.44 MS

AXIS 1



CASAS Version 1.18.01 - 29-May-2001 Safety Laboratories Department, PAW
CREATED: 8-JUN-01 11:28:29

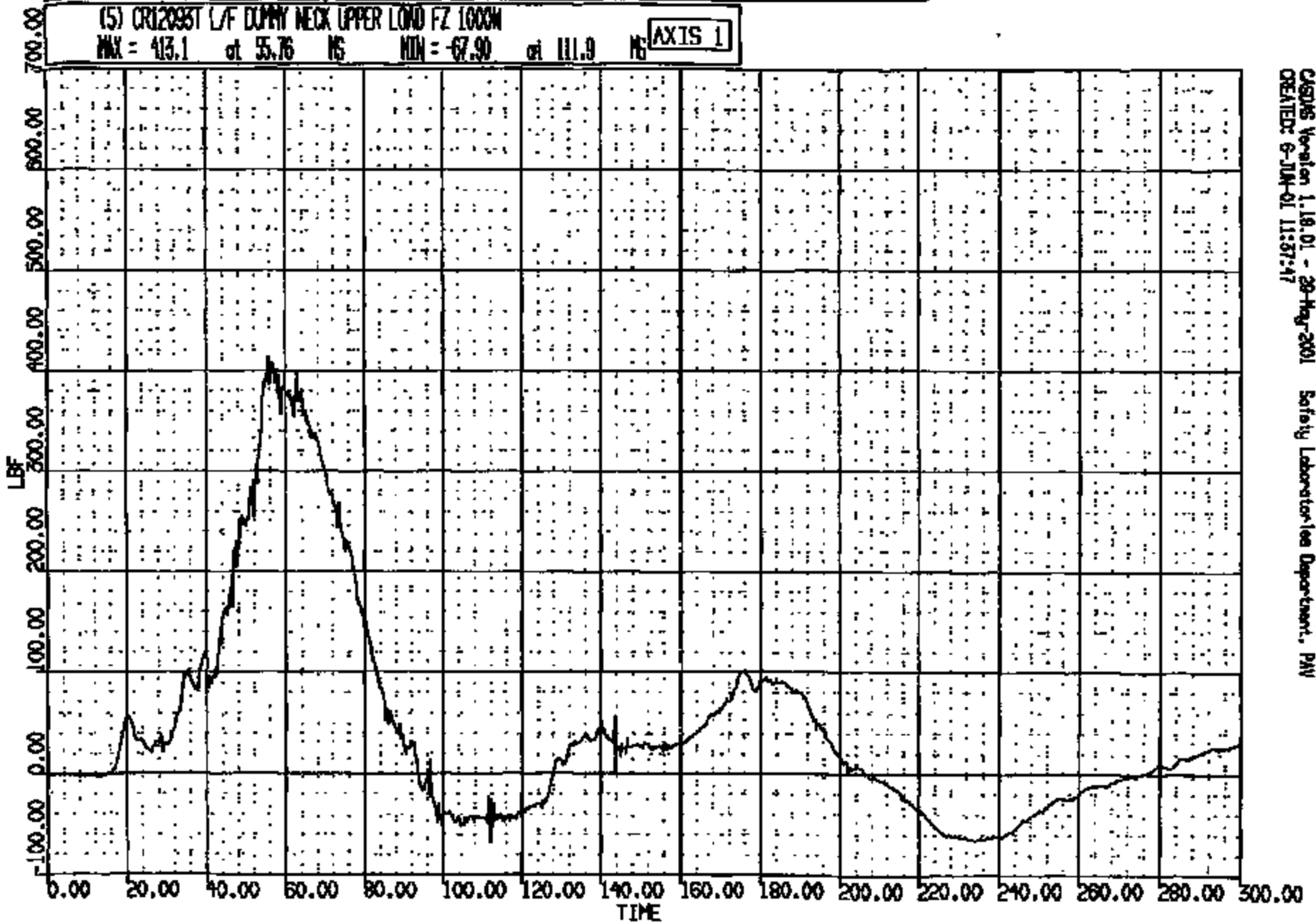
CRIS 0012093

ID: R: 12093 TO: TC1851 DATE: 001201 08:29:25
2000 D198

(5) CR12093T L/F DUFFY NECK UPPER LOW FZ 1000W

MAX = 413.1 at 55.76 MS MIN = -67.90 at 111.9 MS

AXIS 1

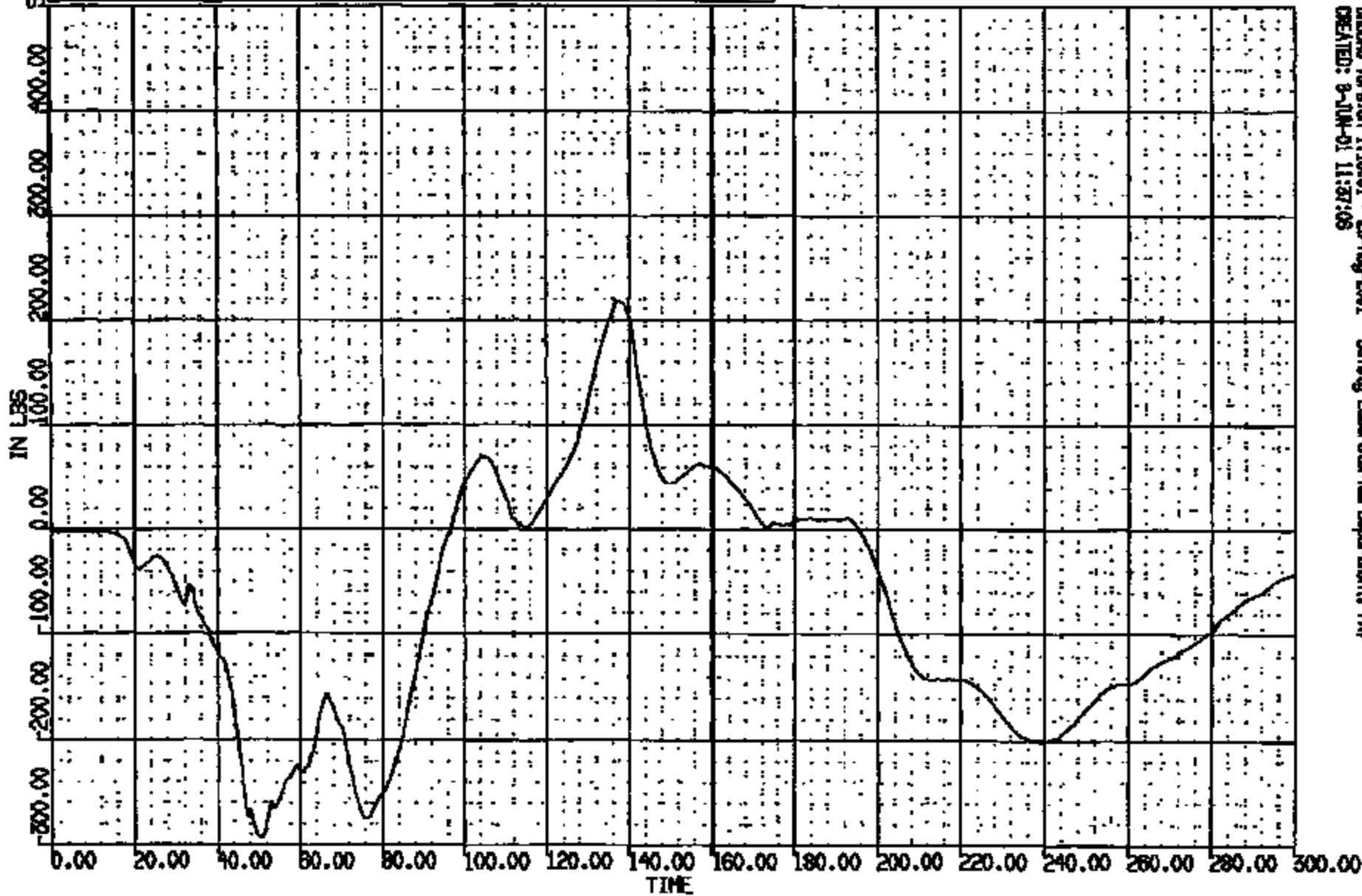


CASYS Version 1.18.01 - 29-May-2001 Safety Laboratories Department, PAW
CREATED: 8-JUN-01 11:57:47

CR1S 0012093

CRK R: 12083 TD: TC1831 DATE: 001200 09:29:25
8000 0188

(6) CR12083T LAF DUMMY NECK UPPER LOAD MY 600M
MAX = 277.3 at 137.0 MS MIN = -294.0 at 50.64 MS **AXIS 1**

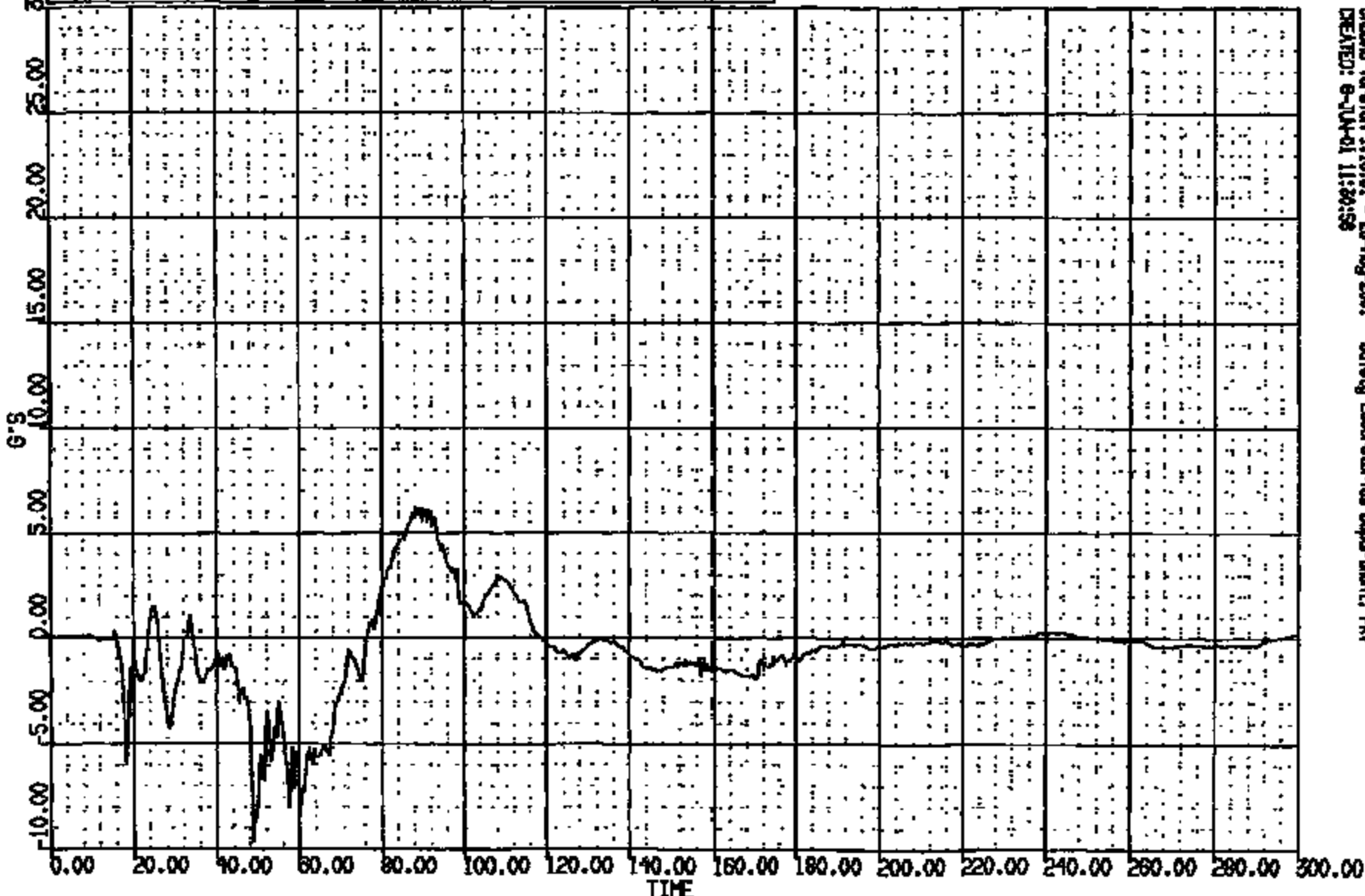


CASAS Version 1.18.01 - 29-May-2001 Safety Laboratory Department, PNY
CREATED: 9-JUN-01 11:37:05

CRTS 0012093

CH N: 12093 TO: TC1821 DATE: 001206 09:29:25
2000 D186

(16) CRT12093T L/F DUNNY PELVIS LAT 1000N
MAX = 6.186 at 88.35 NS MIN = -9.617 at 48.80 NS **AXIS 1**



CASOS Version 1.18.01 - 29-Aug-2001 Safety Laboratories Department, PAV
CREATED: 6-JUN-01 11:26:58

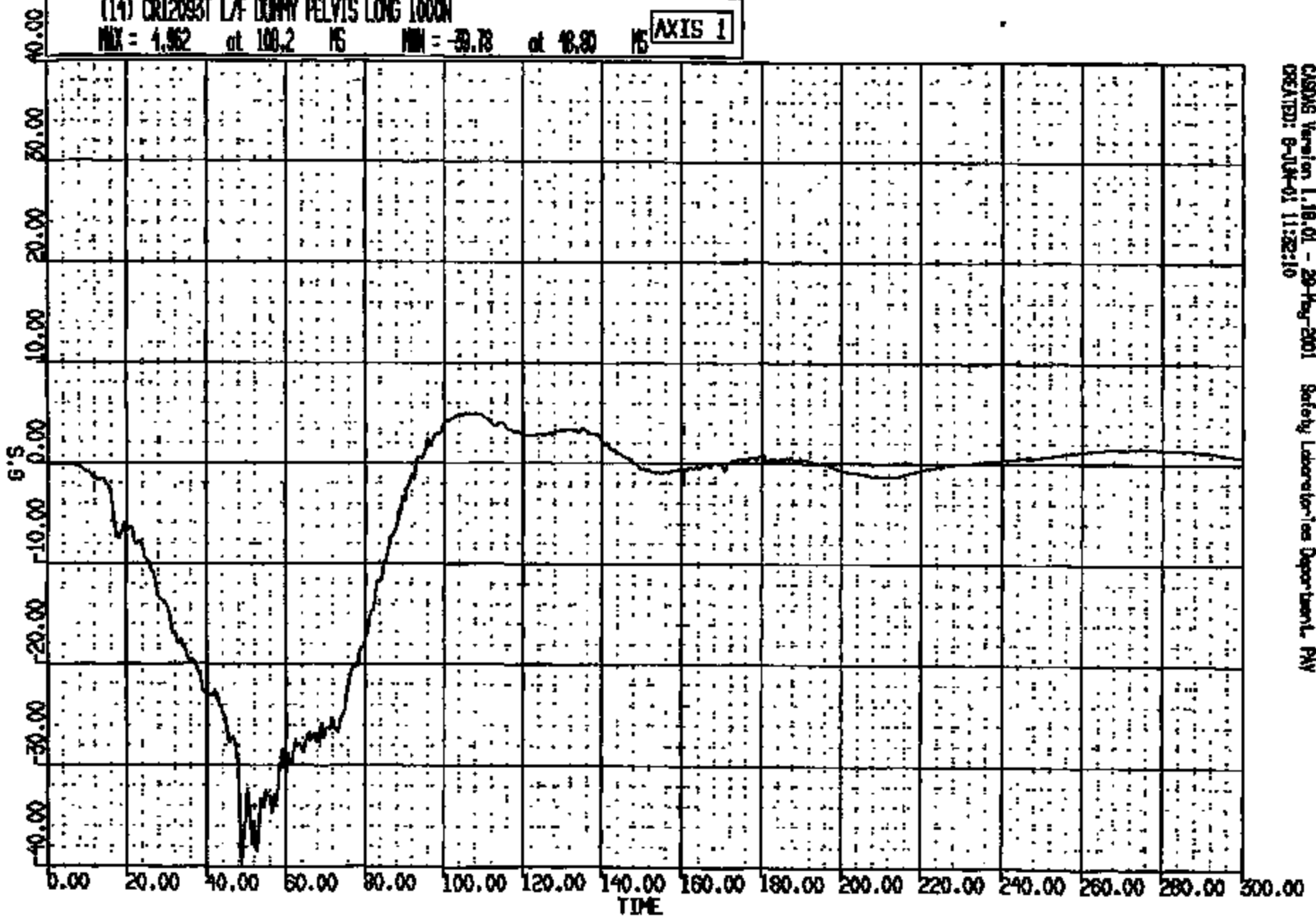
CRTS 0012093

CR R: 12093 TO: TC1881 DATE: 001208 09:29:25
2000 DISK

(14) CR12093T L/F DUMMY PELVIS LONG LOON

MAX = 4.962 at 100.2 MS MIN = -39.78 at 48.80 MS

AXIS 1



CASOS Version 1.18.01 - 29-May-2001 Safety Laboratories Department, PHV
CREATED: 8-JUN-01 11:28:10

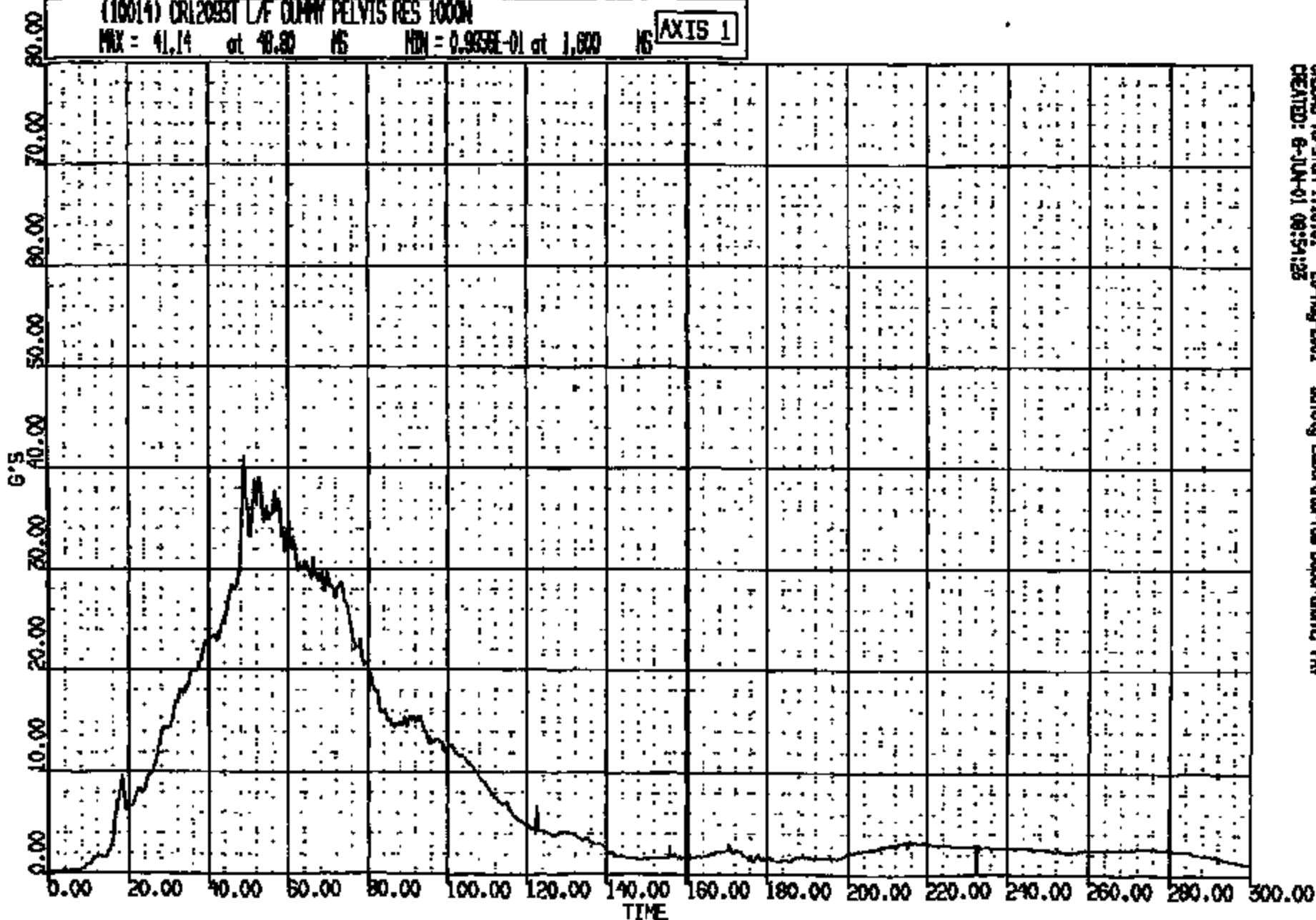
CRIS 0012093

CR R: 12093 TO: TC1931 DATE: 001208 09:29:25
2000 Digs

(10014) CR12093T L/F CUPPY PELVIS RES 1000N

MAX = 41.14 at 48.80 MS MIN = 0.955E-01 at 1.600 MS

AXIS 1



CRSIS Version 1.18.01 - 20-May-2001
CREATED: 6-JUN-01 09:54:25

Safety Laboratory Department, PAW

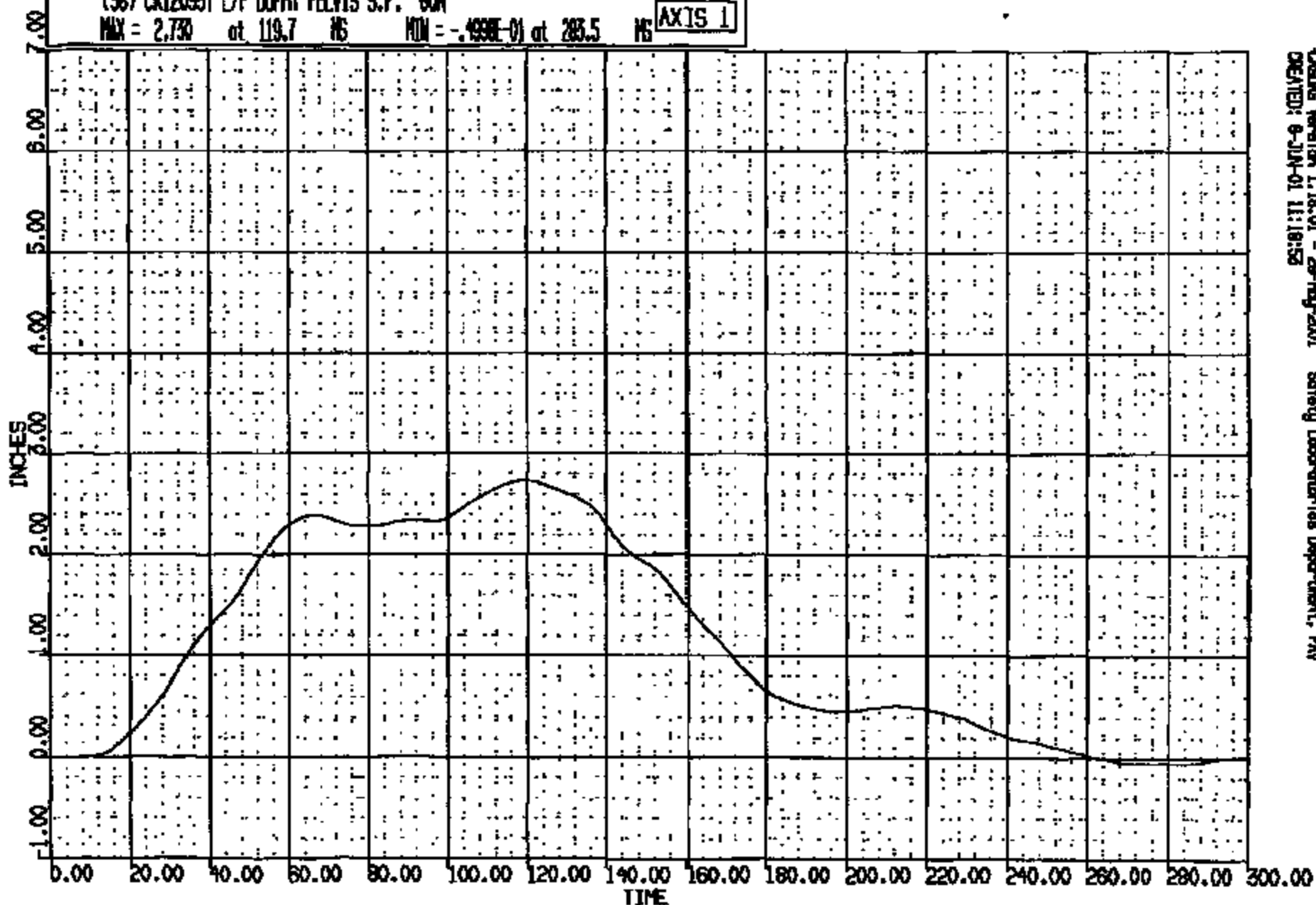
CRIS 0012093

CR: 12093 TO: TC1881 DATE: 001204 09:29:25
2000 DISC

(38) CR12093T L/F DUMMY PELVIS S.P. 60N

MAX = 2.730 at 119.7 MS MIN = -.499E-01 at 283.5 MS

AXIS 1

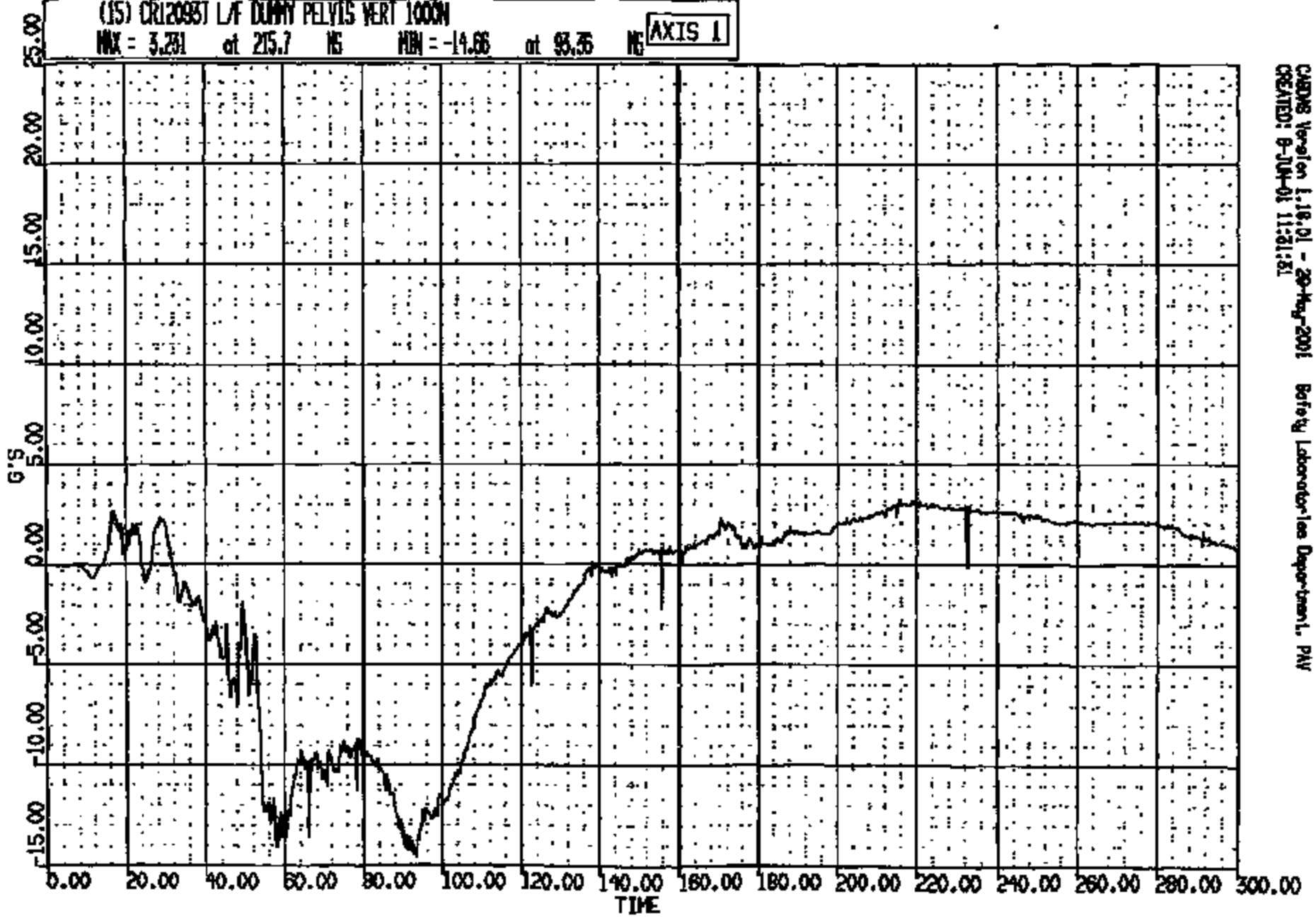


CRSISG Version 1.18.01 - 29-May-2001 Safety Laboratories Department, PAN
CREATED: 9-JUN-01 11:18:52

CRIS 0012093

R: 12093 TO: TC1851 DATE: 001206 09:29:25
2000 D188

(15) CR12093 L/F DUMMY PELVIS VERT 1000N
MAX = 3.281 at 215.7 NS MIN = -14.66 at 93.35 NS **AXIS 1**

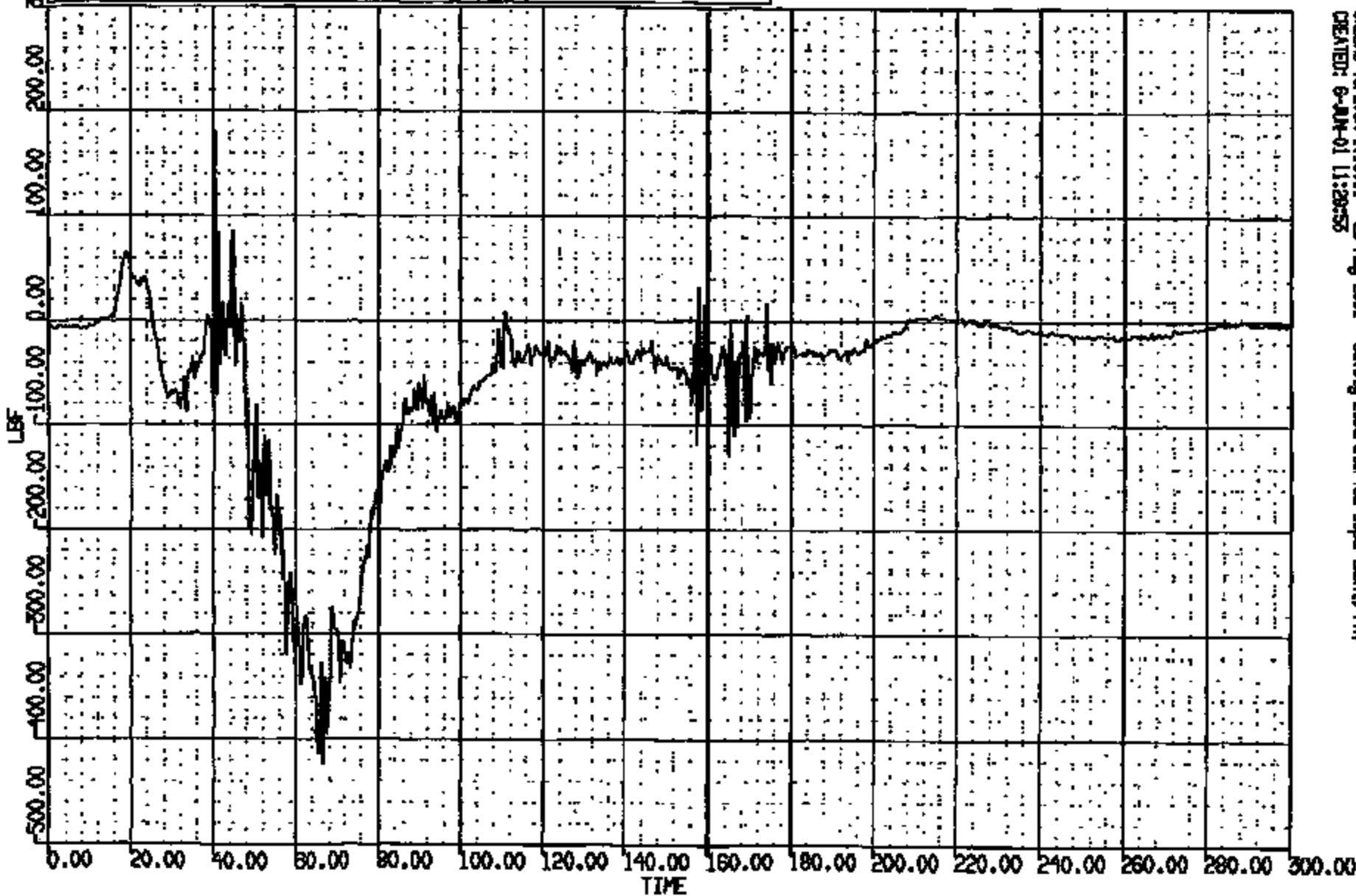


CARDAS Version 1.18.01 - 29-Aug-2001
CREATED: 8-JUN-01 11:51:51
Bofeng Laboratories Department, PAV

CRTS 0012093

R: 12095 TO: TC1851 DATE: 001206 09:29:25
2000 D188

(18) CR12095 L/F DUMMY RAPEUR LOAD FZ 600N
MAX = 181.3 at 40.56 MS MIN = -423.9 at 66.56 MS **AXIS 1**

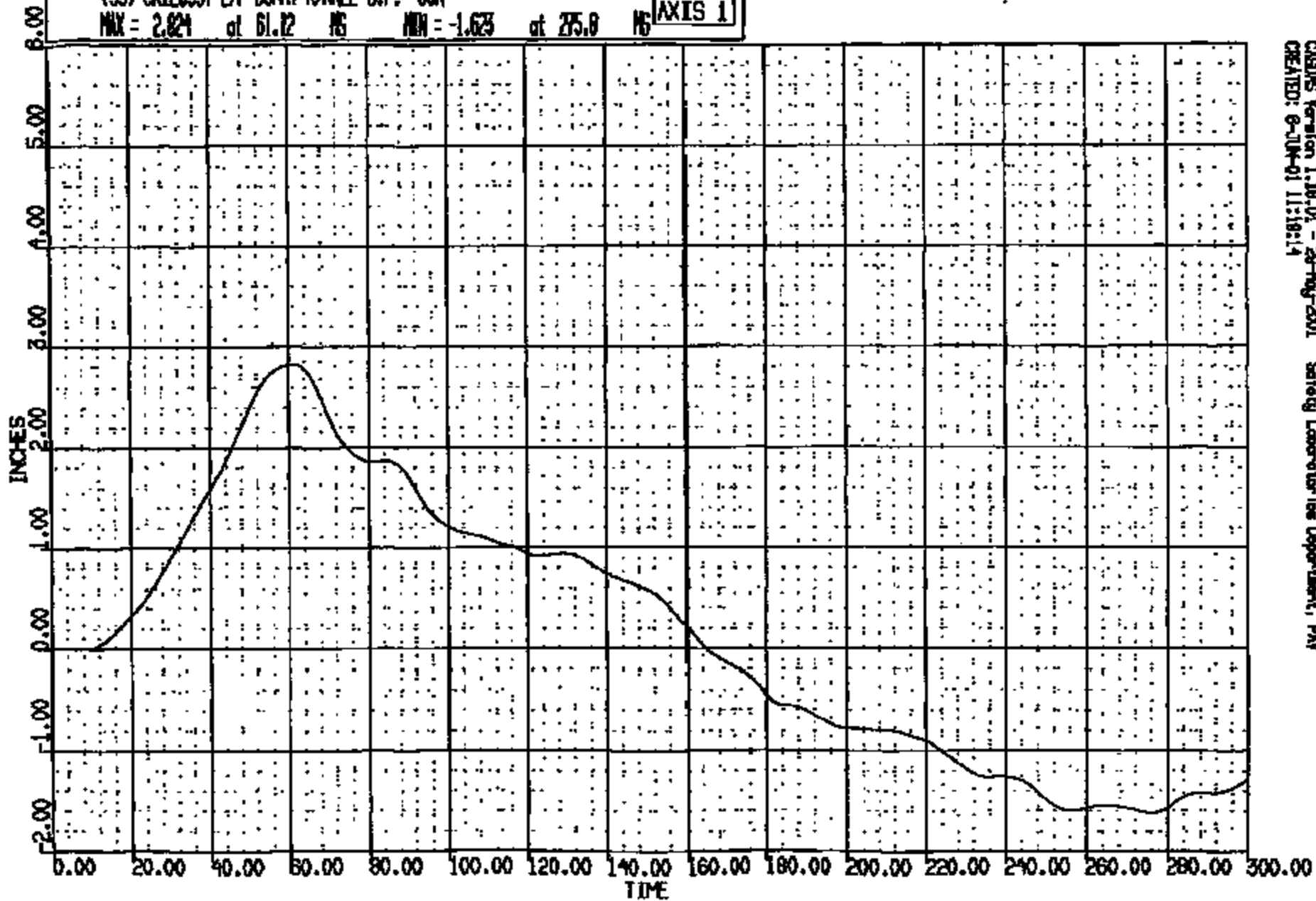


C:\9016 Version 1.18-01 - 29-May-2001 Safety Laboratories Department, PAW
CREATED: 6-JUN-01 11:29:55

CRTS 0012093

CR R: 12093 TO: TC1881 DATE: 001208 08:28:25
0000 DISC

(39) CR12093T L/F DUMMY RANGE S.P. 60N
MAX = 2.824 at 61.12 NS MIN = -1.623 at 275.0 NS **AXIS 1**

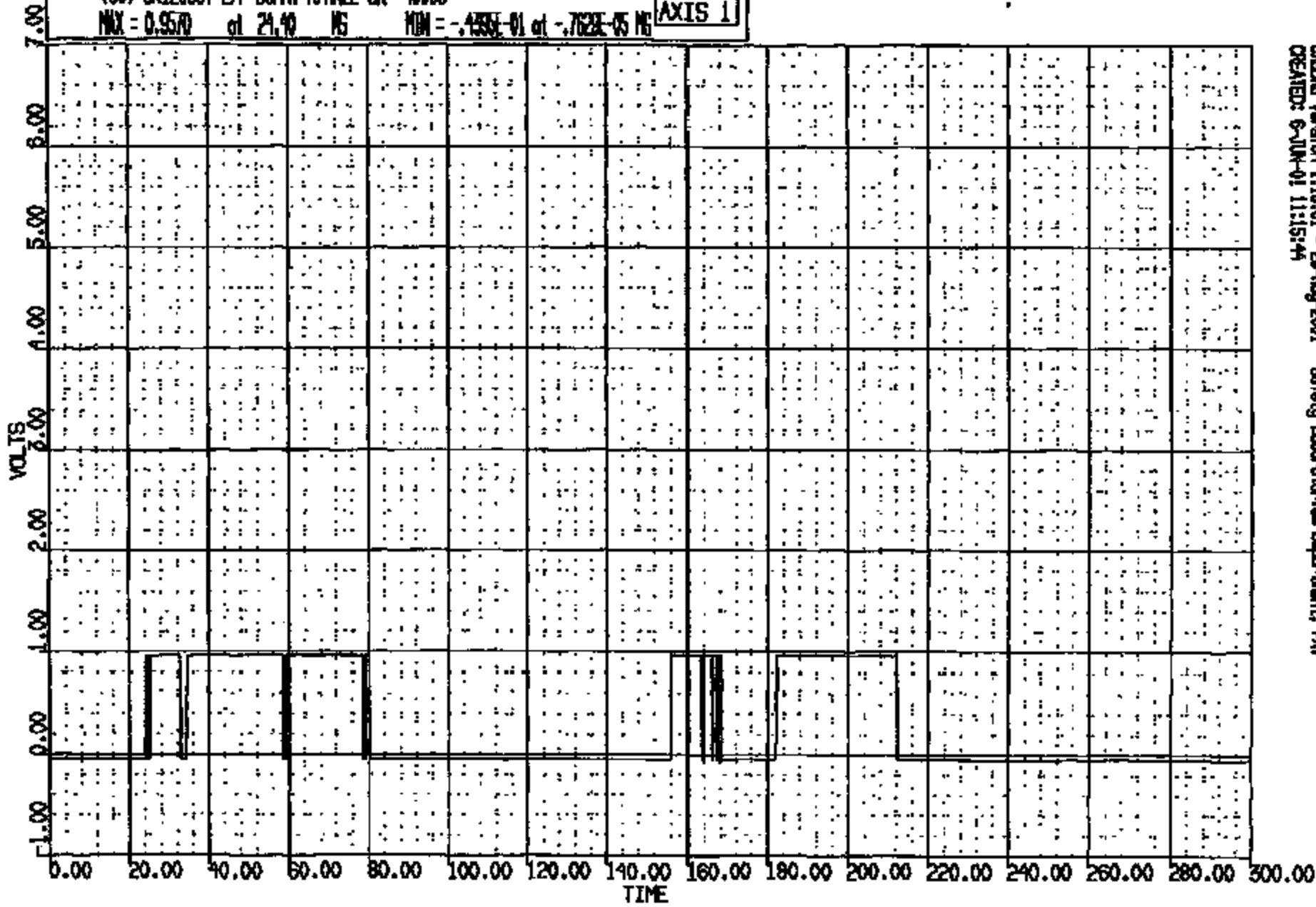


CRSIS Version 1.18.01 - 28 Aug 2001 Safety Laboratories Department, PAW
CREATED: 8-JUN-01 11:18:14

CRIS 0012093

CR R: 12093 TO: TC1651 DATE: 001209 09:29:25
2000 DISB

(50) CR12093T L/F DUNN R/KNEE SR 4000C
MAX = 0.9570 at 21.40 MS MIN = -.433E-01 at -.762E-05 MS **AXIS 1**



CRSIS Version 1.18.01 - 29-May-2001 Safety Laboratories Department, PAW
CREATED: 6-JUN-01 11:15:44

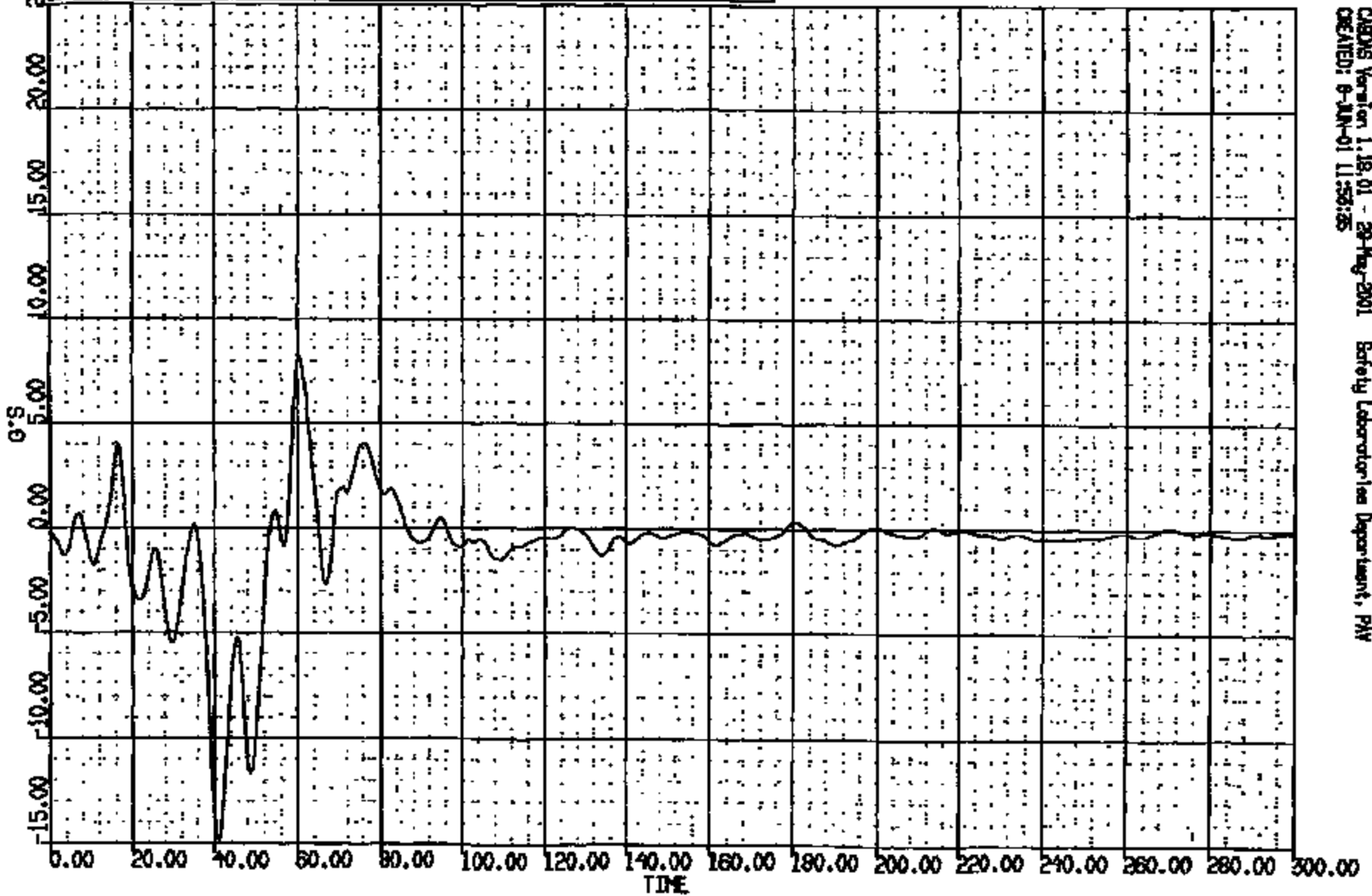
CRIS 0012093

CR R: 12093 TO: TC1851 DATE: 001206 09:29:25
8000 D188

(92) CR12093T L/F FLR PAN #20NER CTR SH #3 LAT 60N

MAX = 8.159 at 00.40 NS MIN = -14.85 at 40.95 NS

AXIS 1

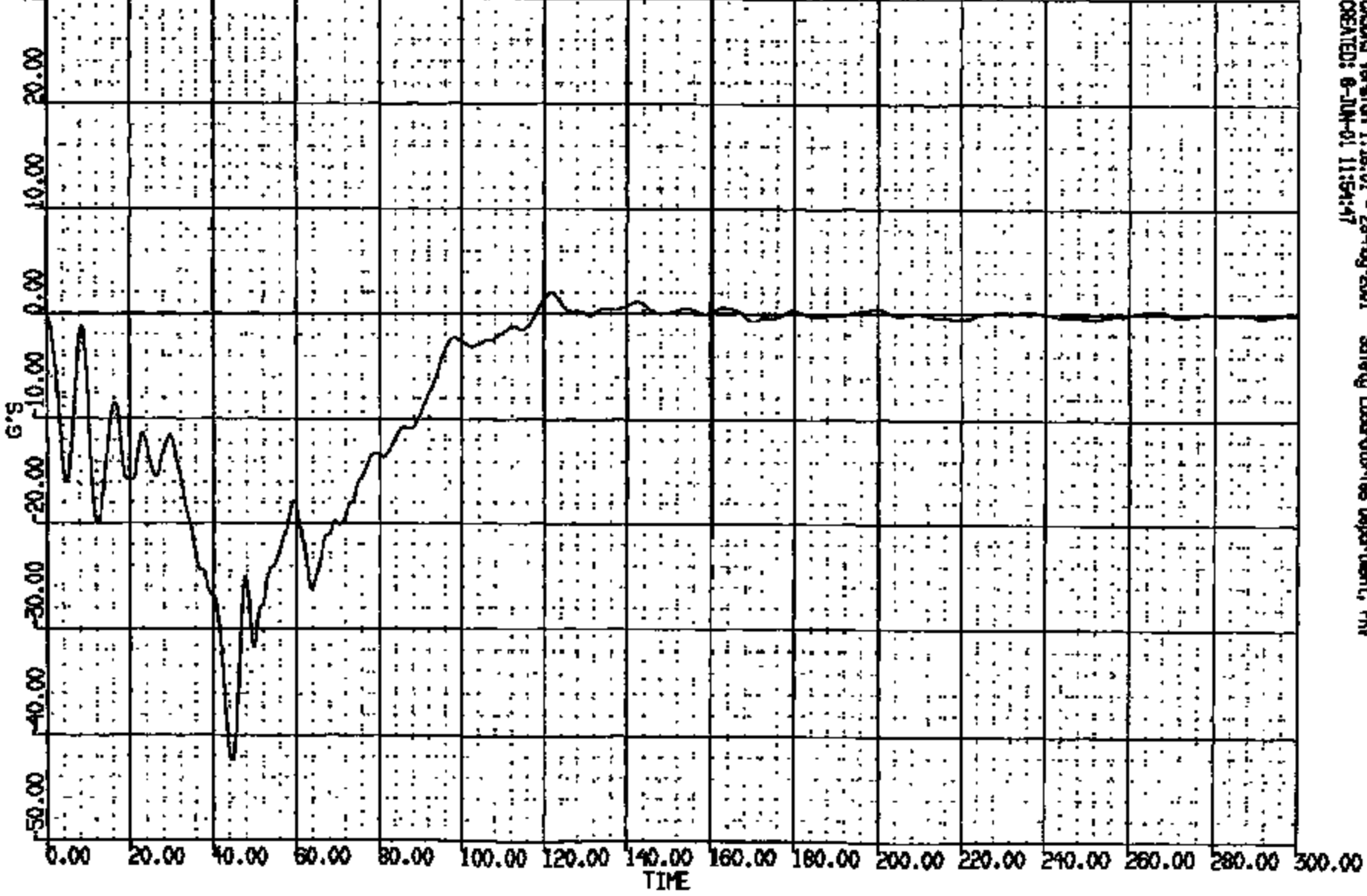


CARDIS Version 1.18.01 - 29-May-2001 Safety Laboratories Department, PAW
CREATED: 6-JUN-01 11:53:25

CRTS 0012093

01 R: 12093 TD: TC1831 DATE: 001206 09:26:25
2000 D188

(90) CR12093T L/F FLR PAV #2201ER CTR SN #3 LONG 60W
MAX = 2.025 at 121.8 NS MIN = -42.30 at 41.56 NS **AXIS 1**

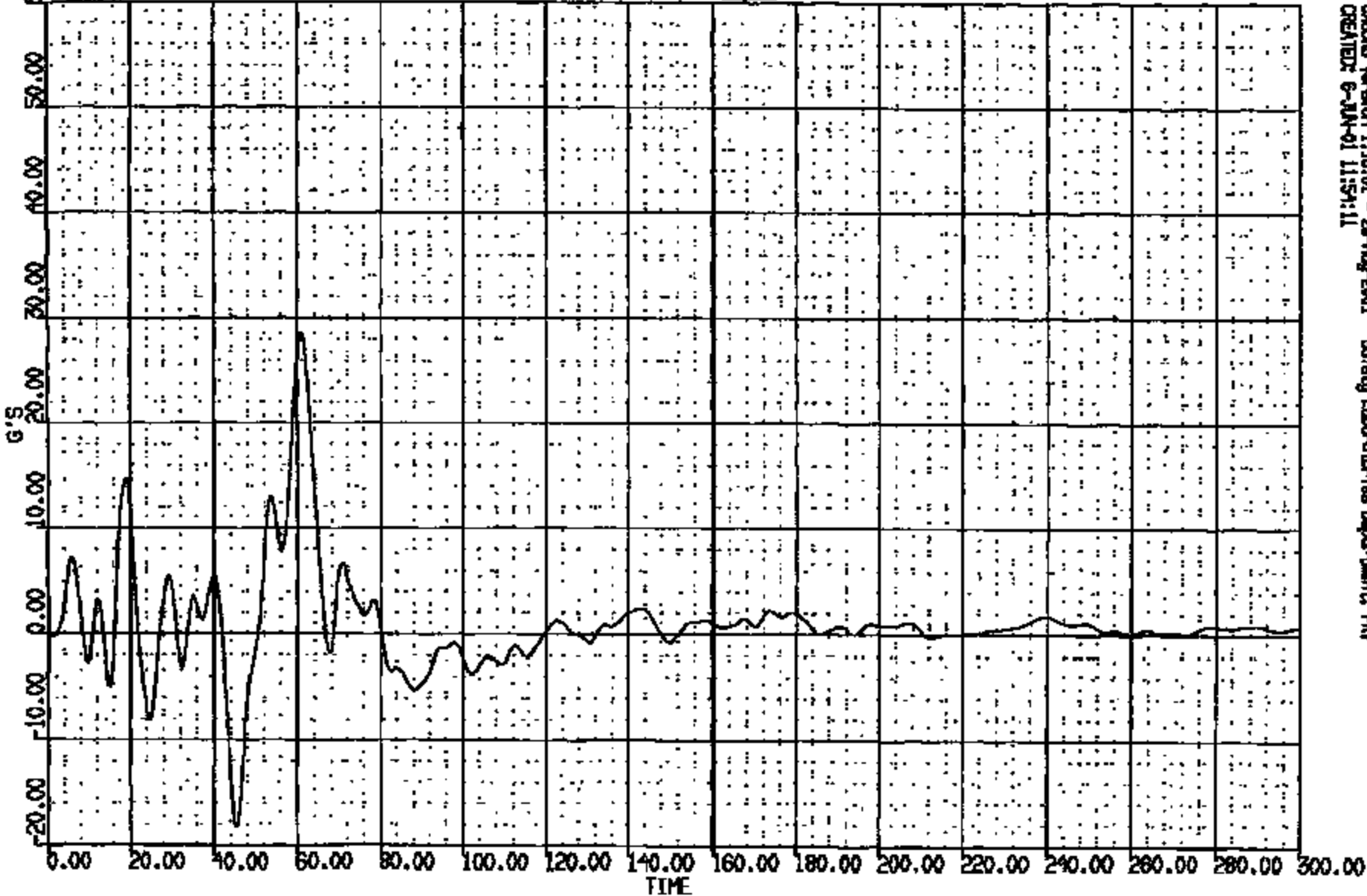


CASDAQ Version 1.18.01 - 28-Aug-2001 Safety Laboratories Department, PAV
CREATED: 6-JUN-01 11:54:47

CRTS 0012093

CR. R: 12093 TO: TC1851 DATE: 001206 08:29:26
2000 D186

(91) CR12093T L/F FLR PAM #21MER CTR SH #3 VERT 60M
MAX = 28.62 at 60.96 MS MIN = -19.29 at 45.41 MS **AXIS 1**

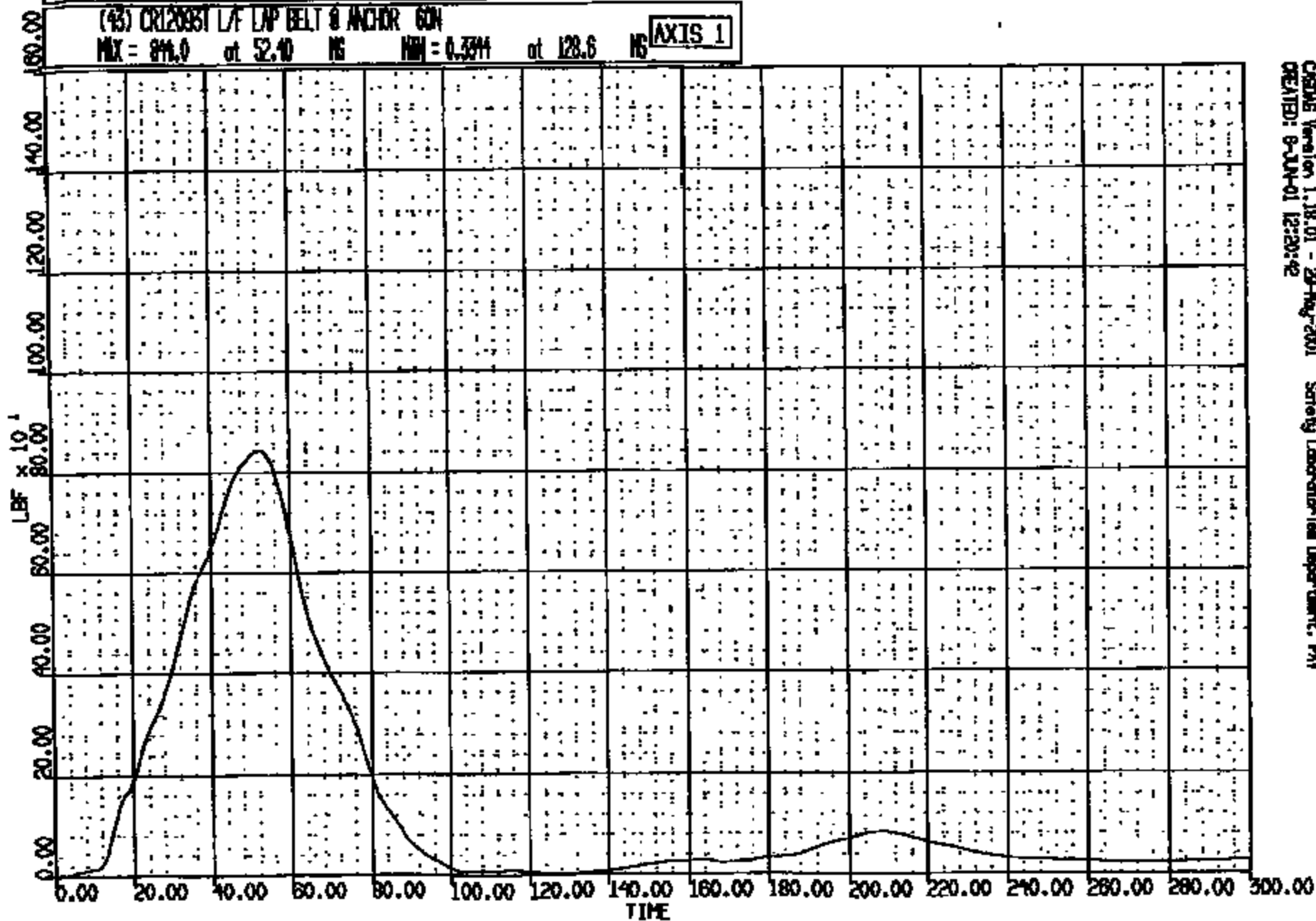


CASOS Version 1.18.01 - 28-May-2001 Safety Laboratories Department, PAW
CREATED: 6-JUN-01 11:54:11

CRTS 0012093

CRK R: 12093 TO: TC1231 DATE: 001209 09:29:25
2000 0196

(43) CR120931 L/F LAP BELT & ANCHOR 60N
MAX = 846.0 at 52.40 MS MIN = 0.3344 at 128.6 MS **AXIS 1**



CASME Version 1.18.01 - 29-May-2001 Safety Laboratories Department, PNY
CREATED: 9-JUN-01 12:20:42

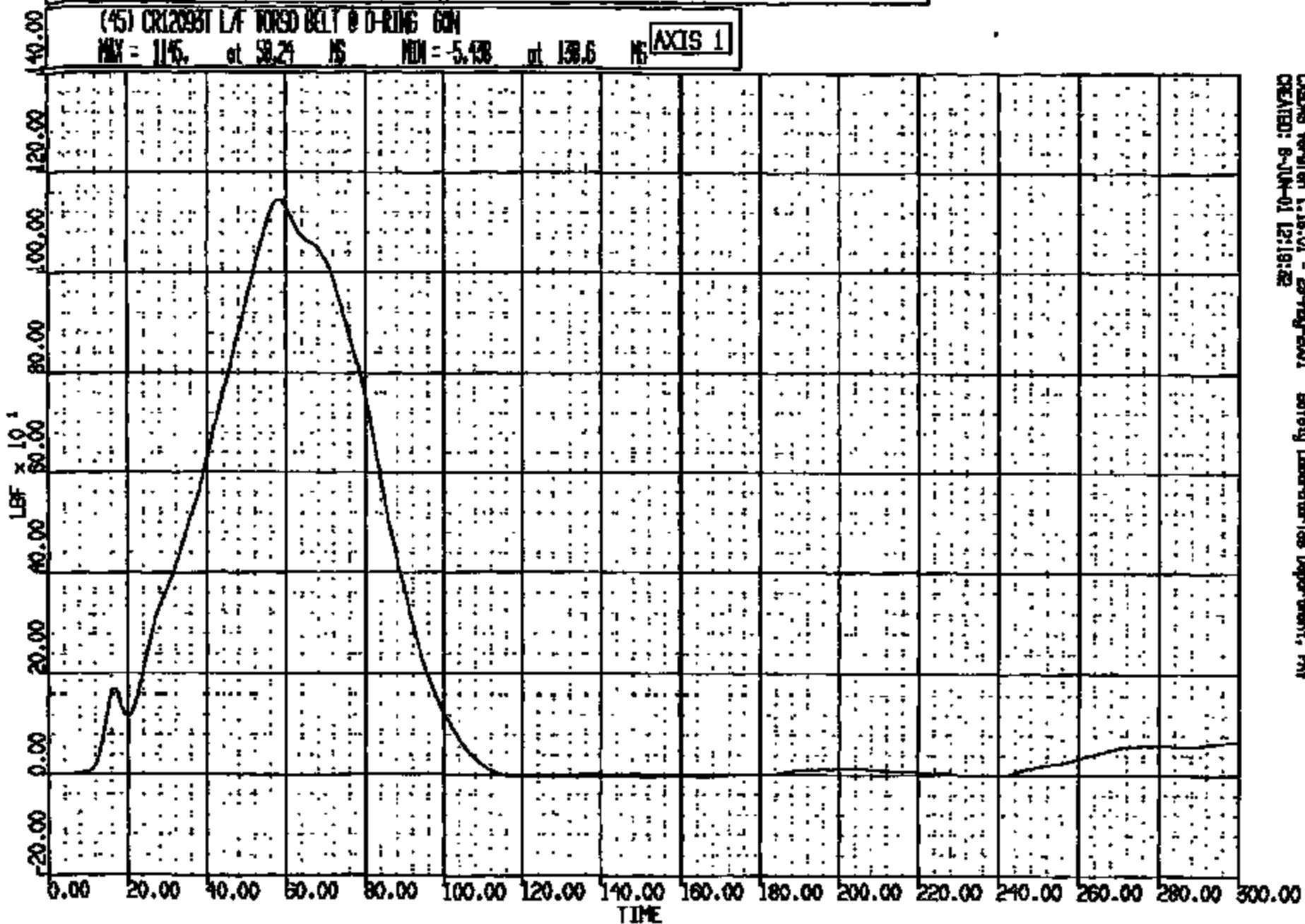
CRTS 0012093

R: 12093 TO: TC1831 DATE: 001206 09:28:25
2000 D188

(45) CR12093T L/F TORSD BELT @ O-RING 60N

MAX = 114. at 58.21 MS MIN = -5.438 at 138.6 MS

AXIS 1

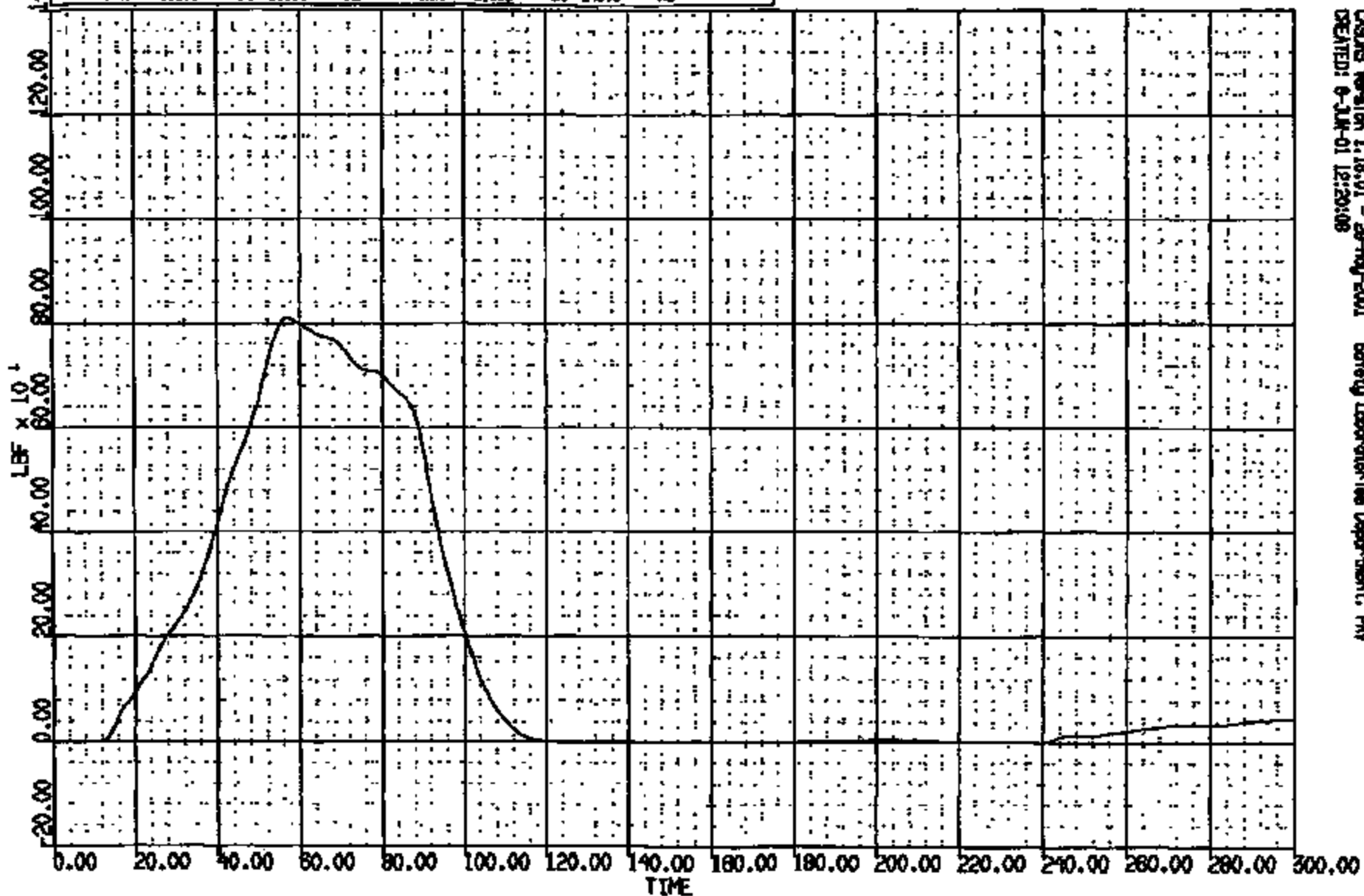


CRDS Verifan L18-01 - 29-May-2001 Safety Laboratories Department, PAW
CREATED: 6-JUN-01 12:19:22

CRTS 0012093

CR: R: 12093 TO: TC1831 DATE: 001206 08:29:25
2000 D188

(44) CR12093T L/F TORSO BELT & RETRACTOR 60N
MAX = 809.6 at 58.96 MS MIN = -1.365 at 143.8 MS **AXIS 1**



CR028 Revision 1.18.01 - 20-May-2001 Safety Laboratories Department, PAW
CREATED: 6-JUN-01 12:20:08

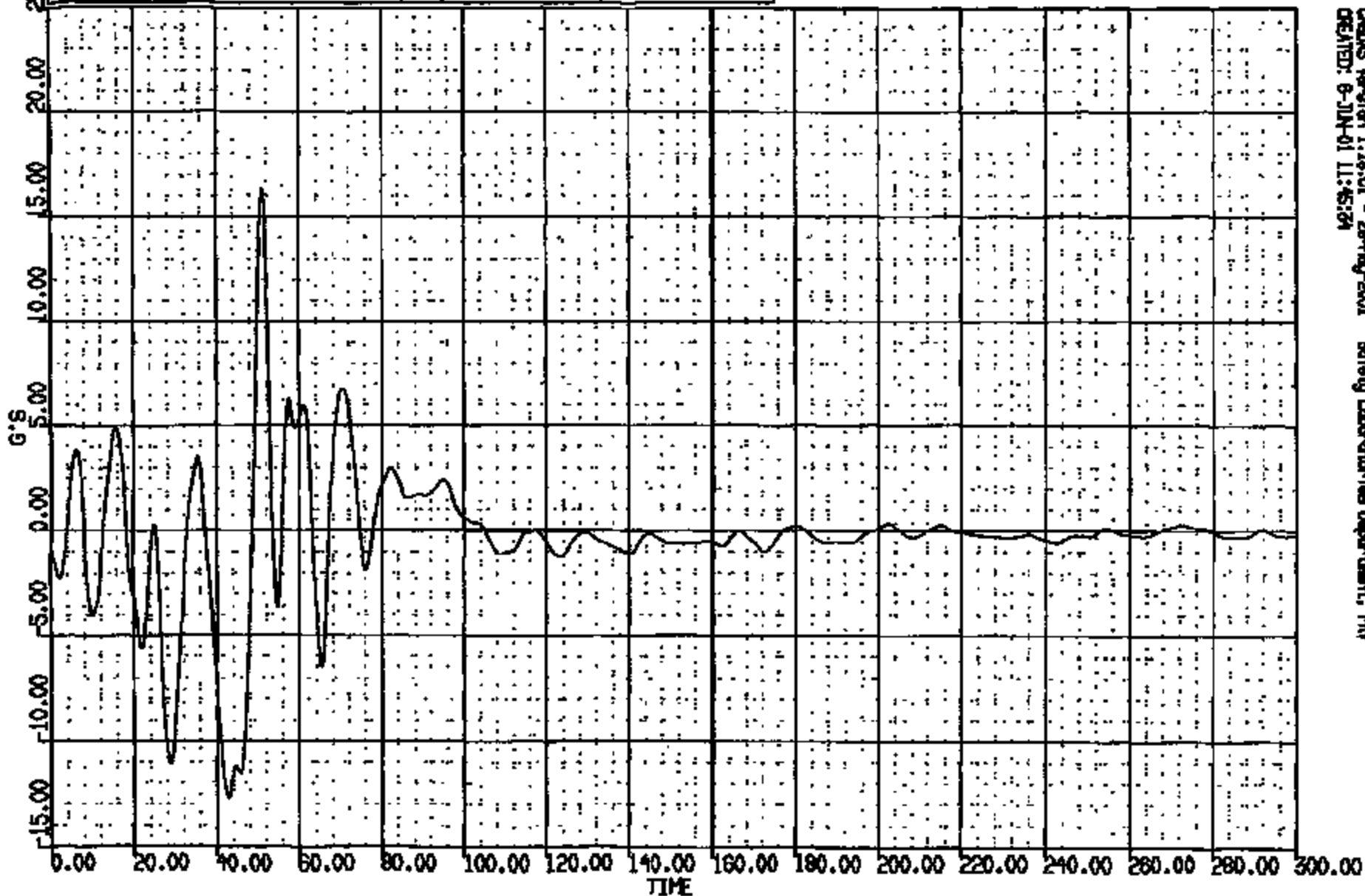
CR12093

CRK R: 12093 TO: TC1831 DATE: 001208 09:29:25
2000 D188

(107) CR12093T LADDER @ A-PILLAR LAT CON

MAX = 16.32 at 51.12 MS MIN = -12.73 at 42.80 MS

AXIS 1

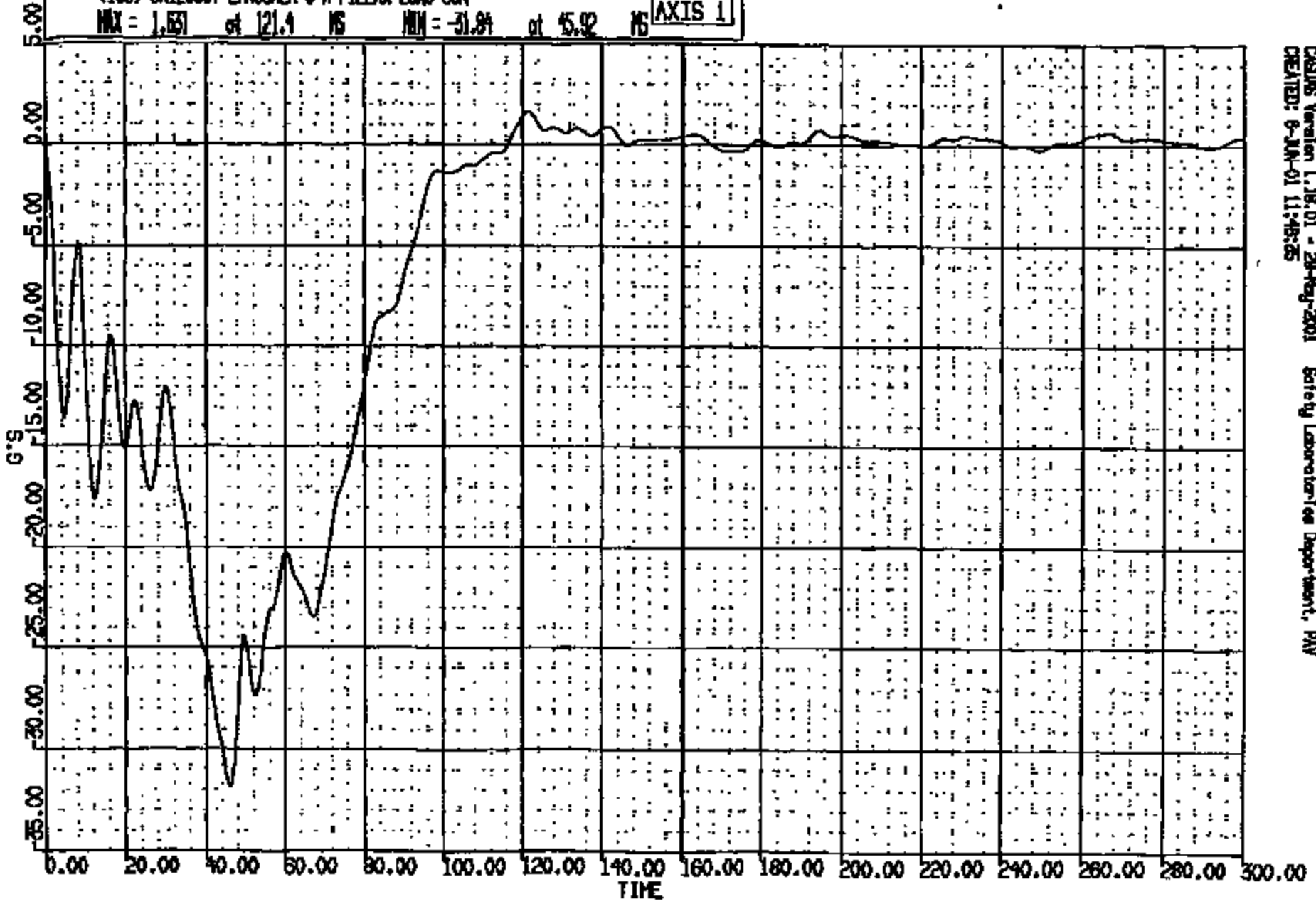


CRSIS Version 1.18-01 - 26-May-2001 Safety Laboratories Department, PAW
CREATED: 8-JUN-01 11:45:24

CRIS 0012093

07 R: 12095 TO: TC1851 DATE: 001206 09:28:25
3000 D188

(105) CR12095T LROCKER @ A-PILLAR LONG 6IN
MAX = 1.651 at 121.4 MS MIN = -51.84 at 45.92 MS **AXIS 1**

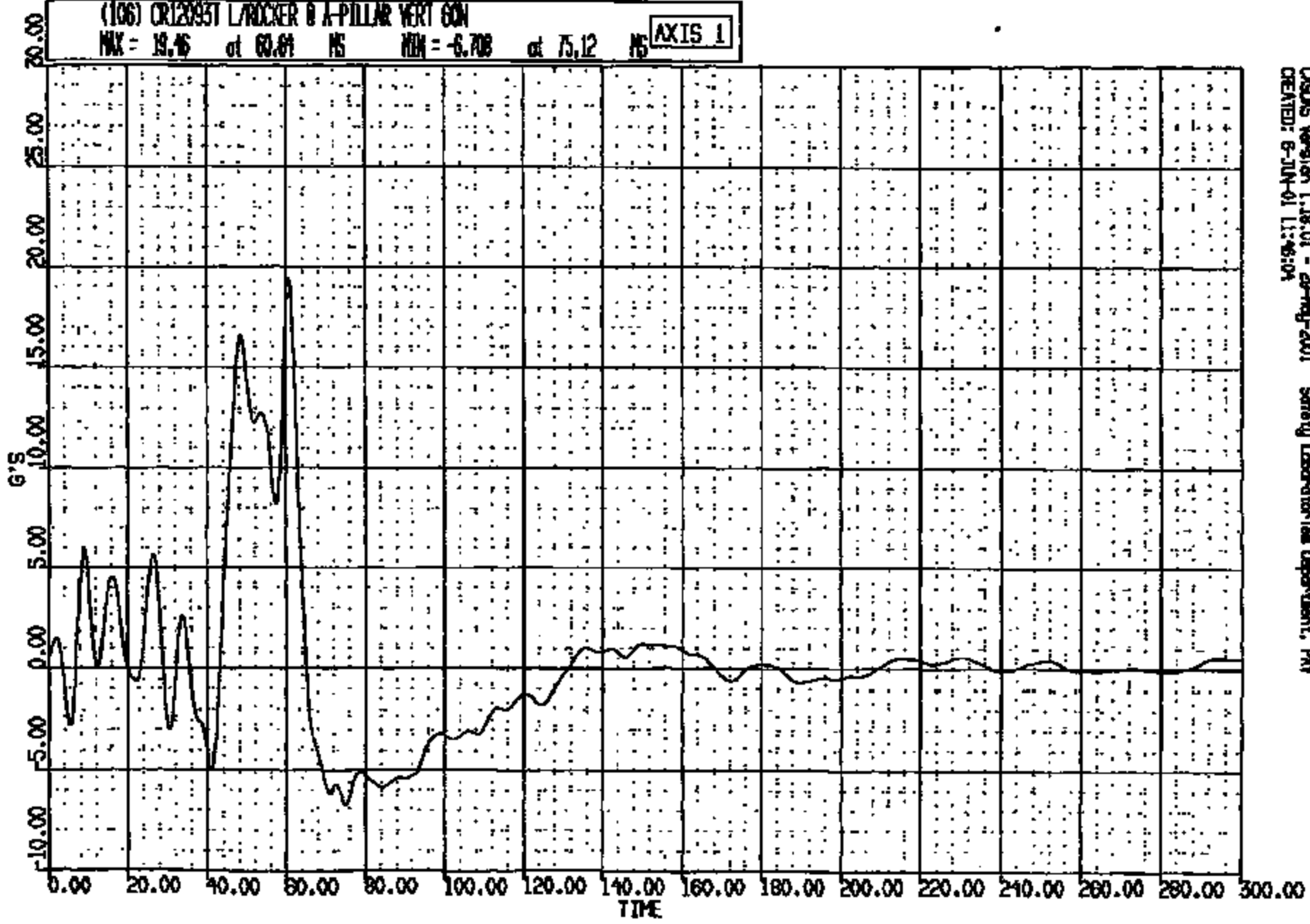


CASIS Version 1.18.01 - 29-Aug-2001 Safety Laboratories Department, PAW
CREATED: 6-JUN-01 11:48:25

CRIS 0012093

C. R: 12095 TO: TC1851 DATE: 001204 09:29:26
2000 D188

(106) CR12095T L/ROCKER @ A-PILLAR VERT GUN
MAX = 19.46 at 60.61 MS MIN = -6.708 at 75.12 MS **AXIS 1**

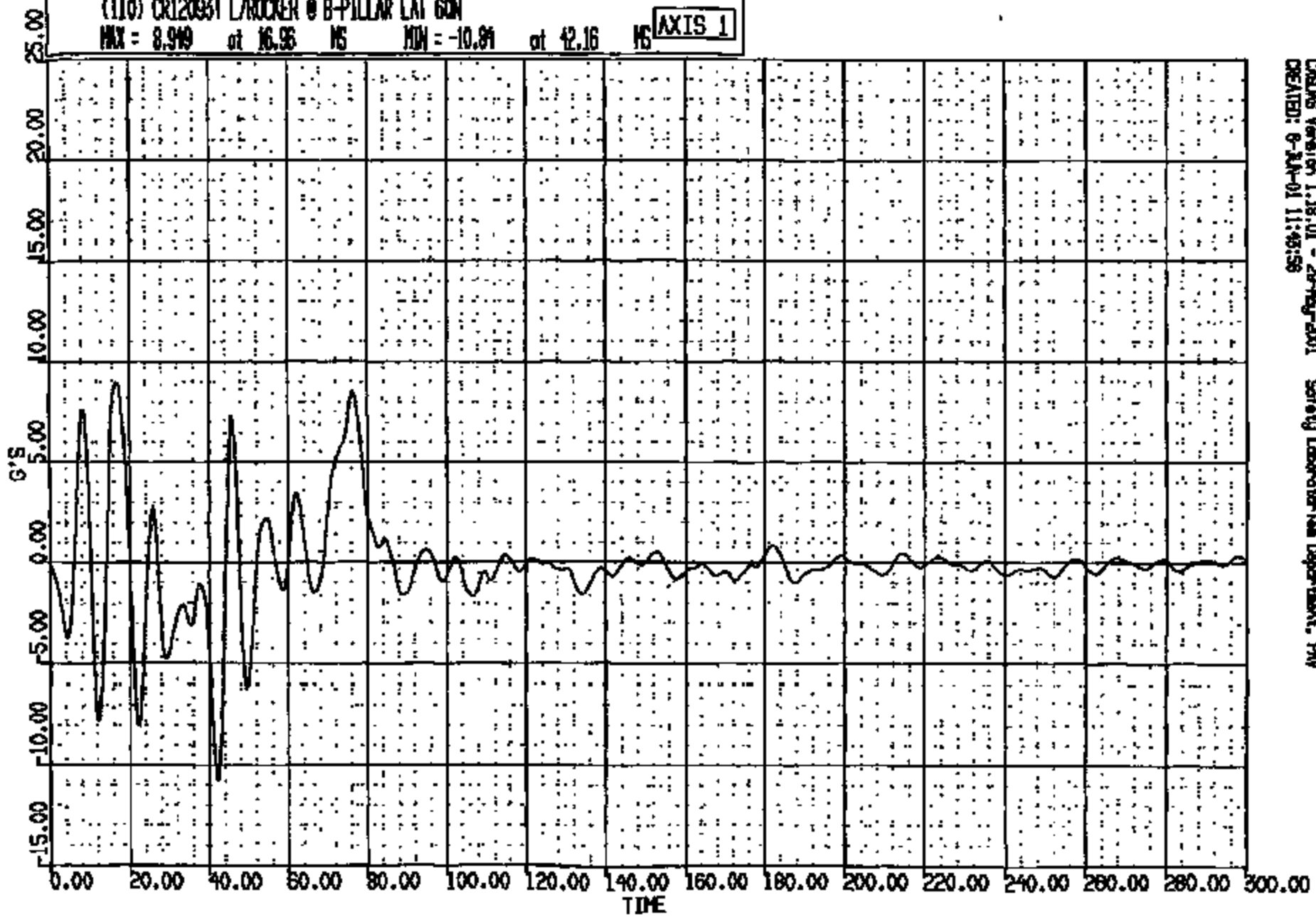


CRSIS Version 1.18.01 - 29-May-2001 Safety Laboratories Department, FBI
CREATED: 6-JUN-01 11:46:04

CRIS 0012093

NO. R: 12093 TO: TC1831 DATE: 001208 09:29:25
R000 D188

(110) CR12093T L/ROCKER @ B-PILLAR LAT 60N
MAX = 8.949 at 16.95 MS MIN = -10.891 at 42.16 MS **AXIS 1**

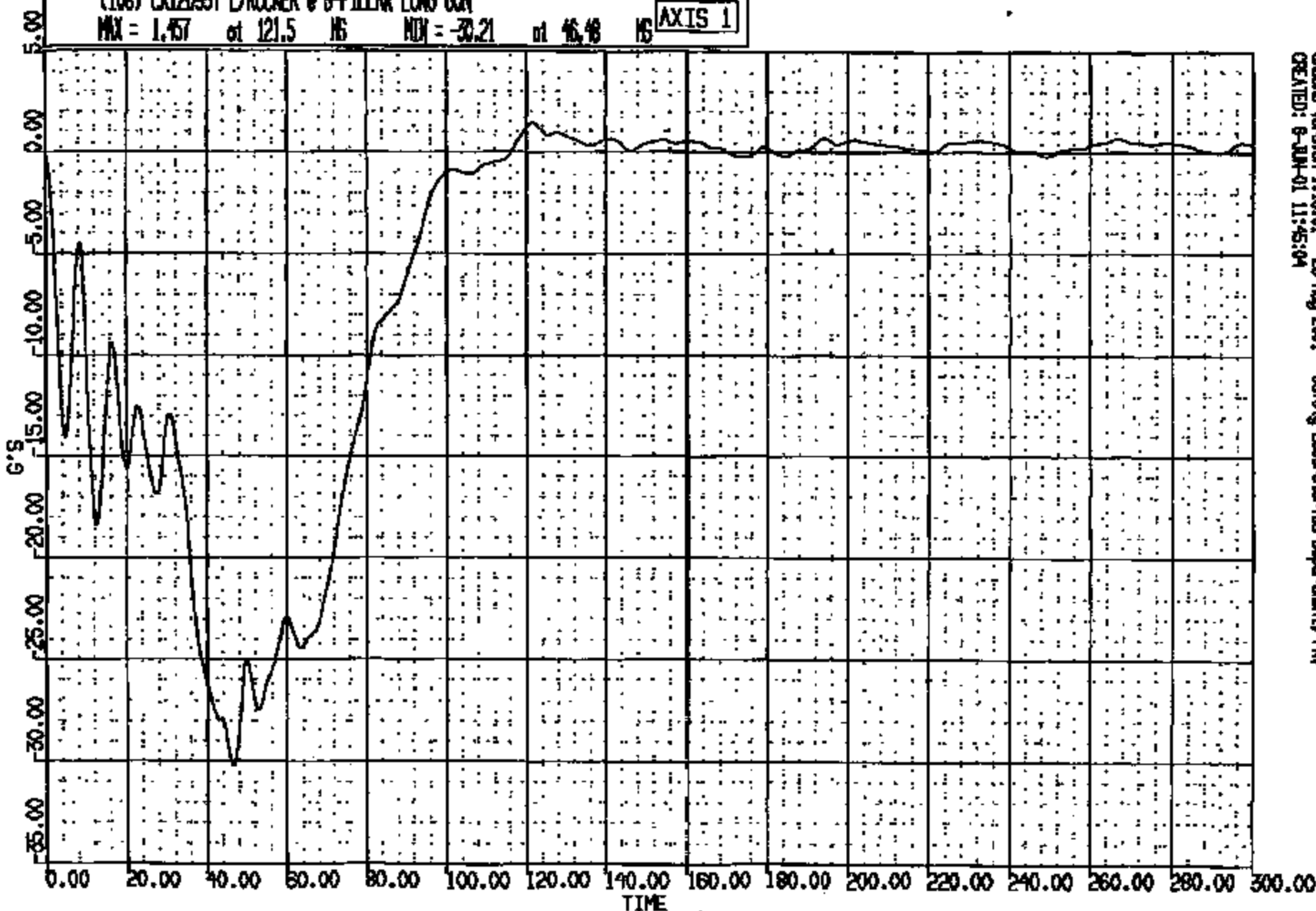


CRDMS Version 1.18.01 - 29-May-2001 Safety Laboratories Department, PNV
CREATED: 8-20-01 11:45:58

CRTS 0012093

001 R: 12093 TO: TC1851 DATE: 001206 09:28:25
2000 0188

(108) CR12093T L/ROCKER @ B-PILLAR LONG CON
MAX = 1.457 at 121.5 MS MIN = -30.21 at 46.48 MS **AXIS 1**

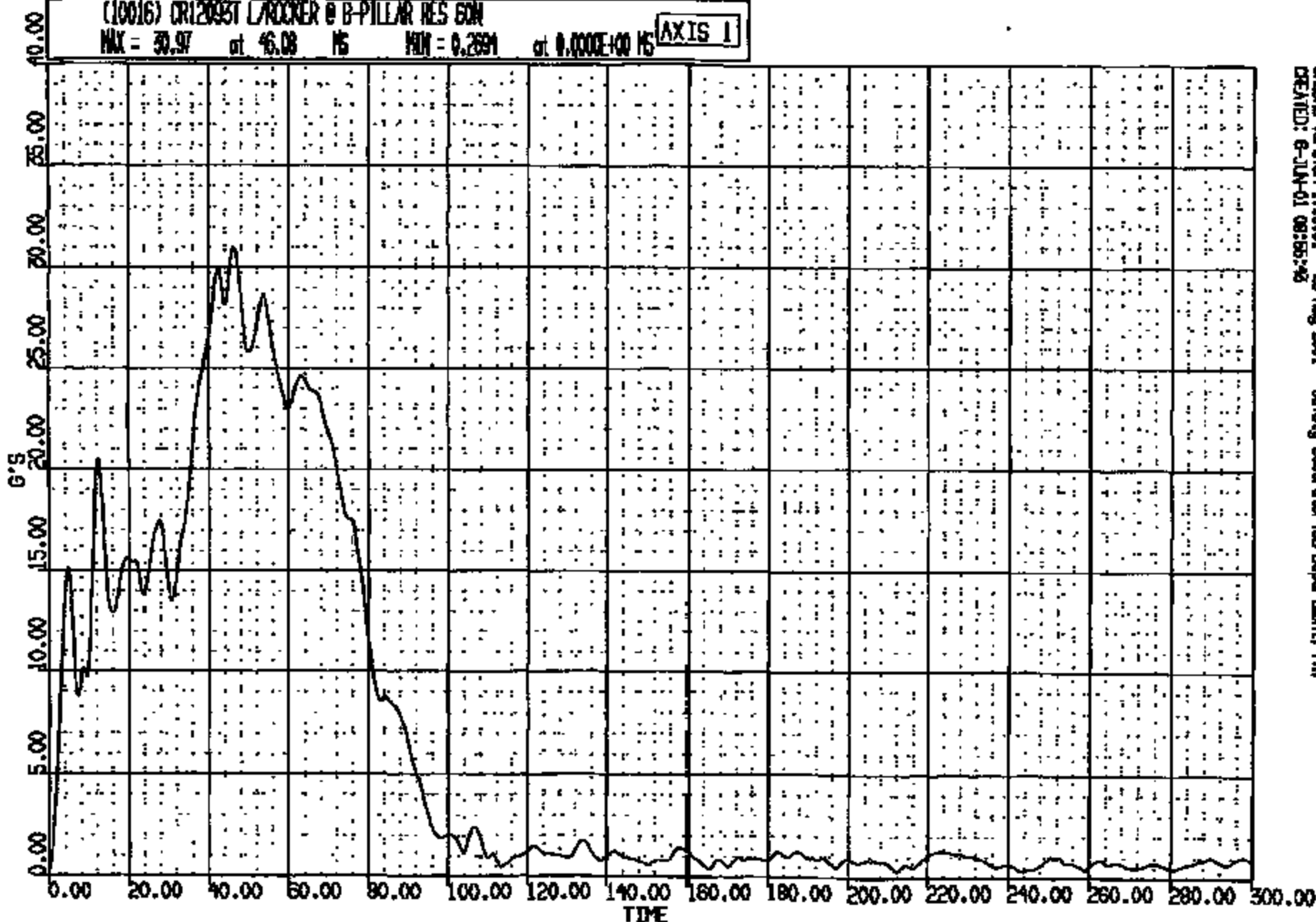


CASDS Version 1.18.01 - 29-May-2001 Safety Laboratories Department, PNV
CREATED: 8-JUN-01 11:45:04

CRTS 0012093

CHK R: 12093 TC: TC1831 DATE: 001204 09:28:25
2000 D188

(10016) CR12093T LOCKER @ B-PILLAR RES 60N
MAX = 30.97 at 46.08 MS MIN = 0.2891 at 0.000E+00 MS **AXIS 1**

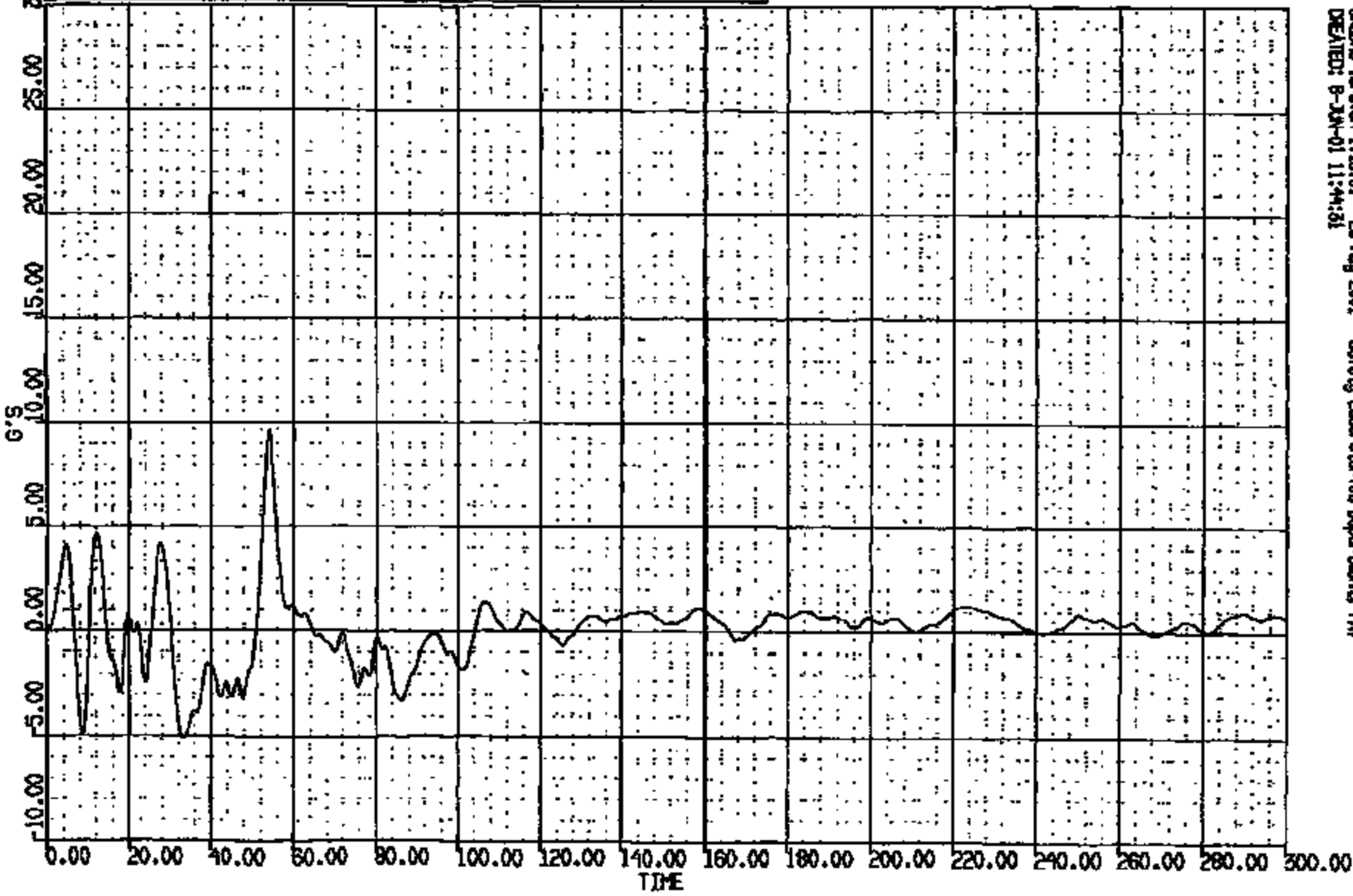


CASIS Version 1.18.01 - 29-May-2001 Safety Laboratories Department, PAW
CREATED: 6-JUN-01 09:56:48

CRTS 0012093

CH R: 12093 TO: TC1851 DATE: 001204 09:28:25
2000 D186

(109) CR12093T LROCKER @ B-PILLAR VERT 60N
MAX = 9.627 at 54.08 MS MIN = -5.089 at 33.28 MS **AXIS 1**



CASUS Version 1.18.01 - 29-Aug-2001 Safety Laboratories Department, PMW
DEVELOP: B-JAN-01 11:44:31

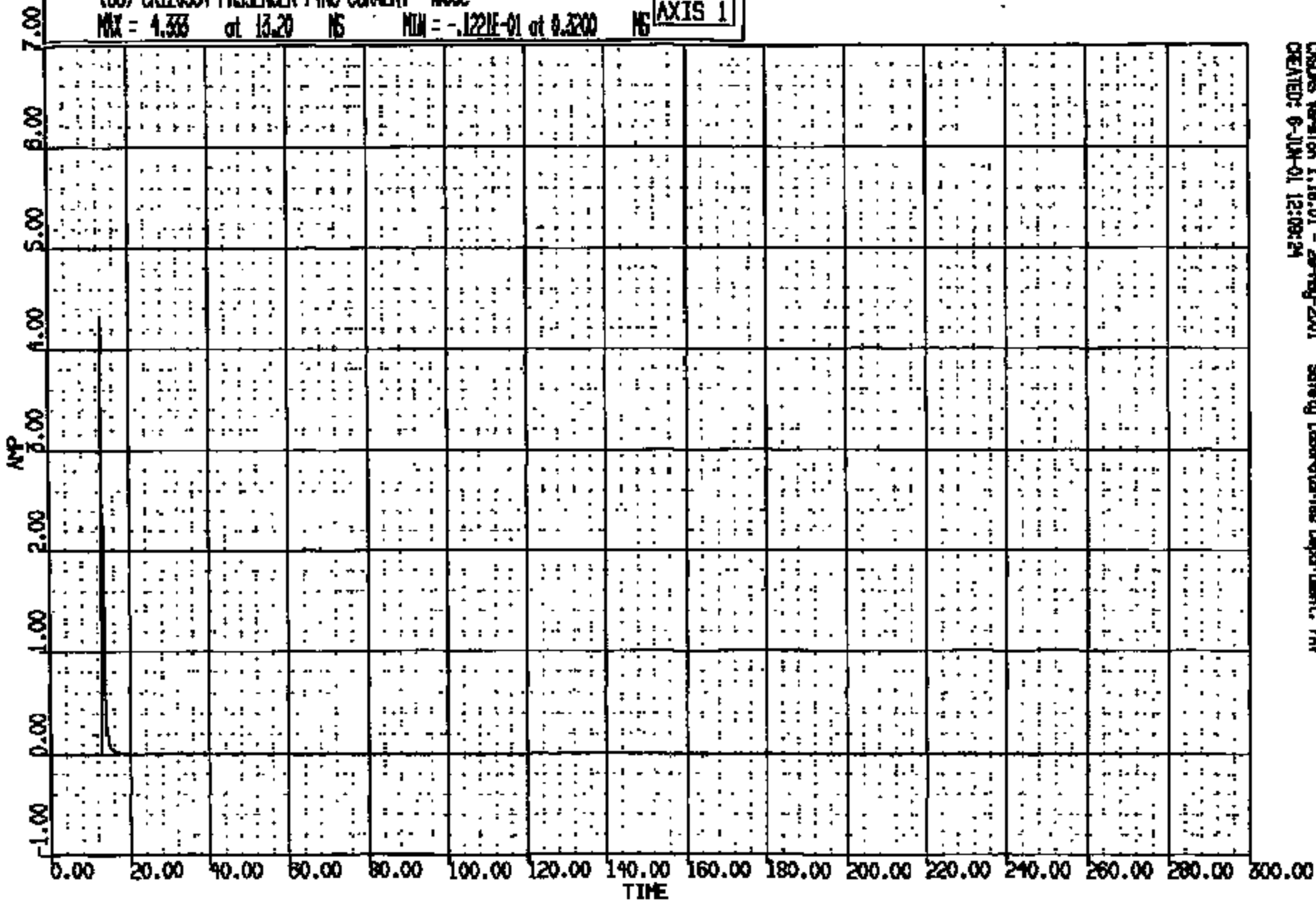
CRTS 0012093

CR R: 12093 TO: TC1881 DATE: 001806 09:29:25
2000 D188

(66) CR120931 PASSENGER PYRO CURRENT 400C

MAX = 4.333 at 13.20 NS MIN = -.1221E-01 at 0.3200 NS

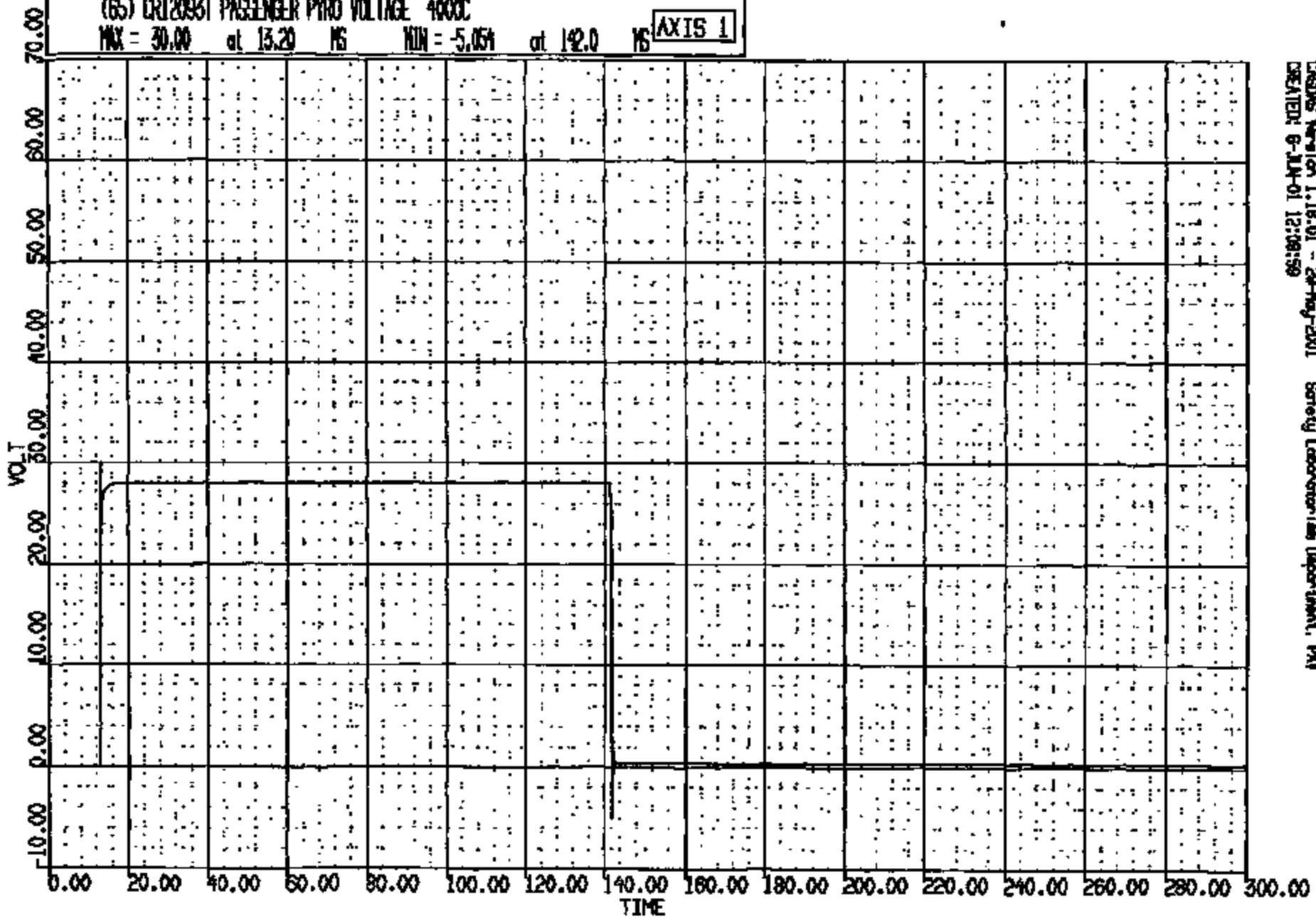
AXIS 1



CASDS Version 1.18.01 - 29-May-2001 Safety Laboratories Department, PAW
CREATED: 6-JUN-01 12:08:24

REF: 12093 TO: TC1851 DATE: 001206 08:29:25
2000 D188

(65) CRJ2093T PASSENGER PYRO VOLTAGE 4000C
MAX = 30.00 at 13.20 MS MIN = -5.054 at 142.0 MS **AXIS 1**

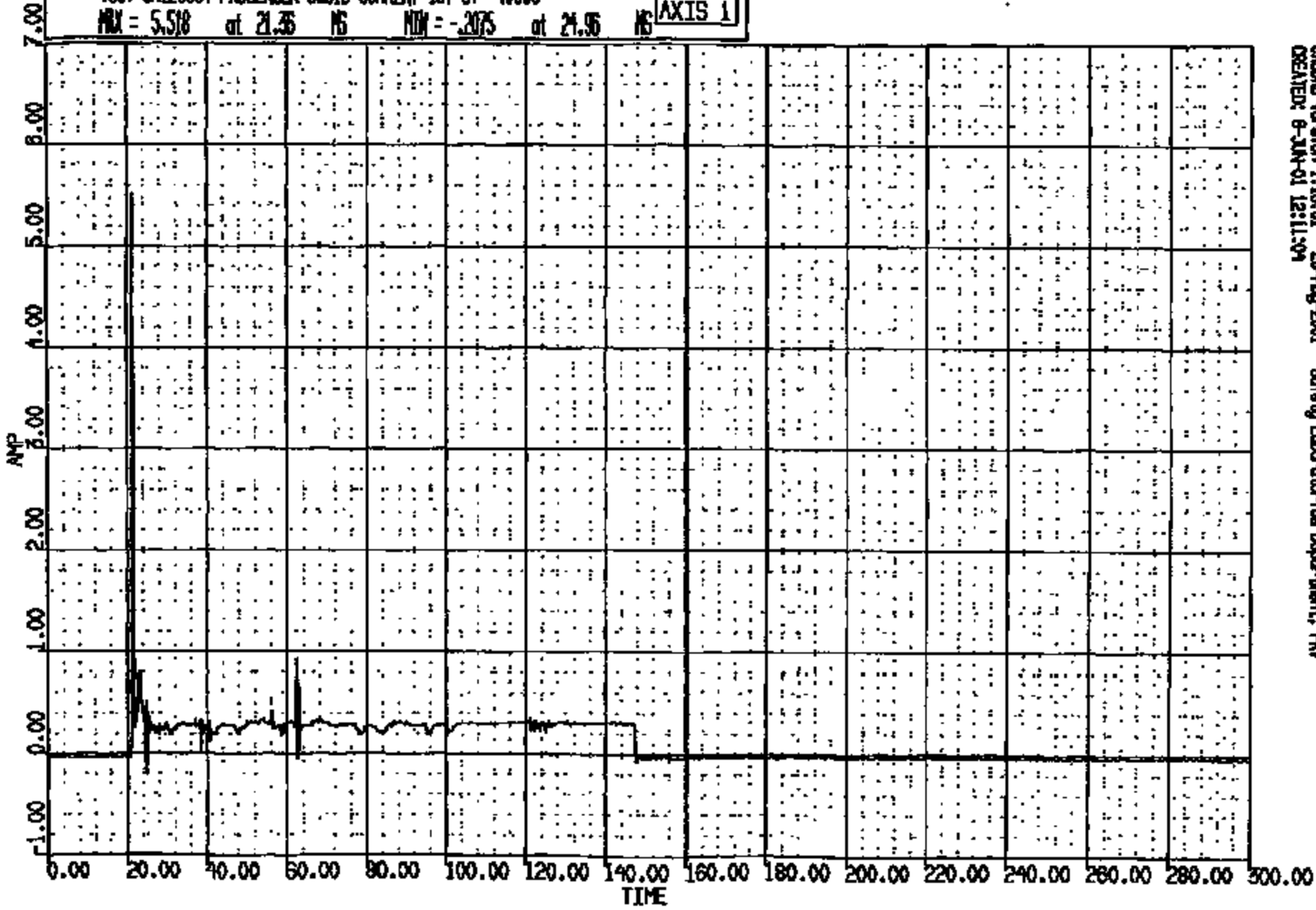


CASIMS Version 1.18-01 - 28-May-2001 Safety Laboratory/Inn Department, PAW
CREATED: 8-JUN-01 12:08:59

CRTS 0012093

CH R: 12093 TO: TC1851 DATE: 001206 09:28:25
2000 D186

(63) CRL20031 PASSENGER SQUIB CURRENT 1ST ST 4000C
MAX = 5.518 at 21.36 MS MIN = -2.075 at 21.95 MS **AXIS 1**



CASDAS Version 1.18-01 - 20-May-2001 Safety Laboratories Department, NAV
CREATED: 8-JUN-01 12:11:04

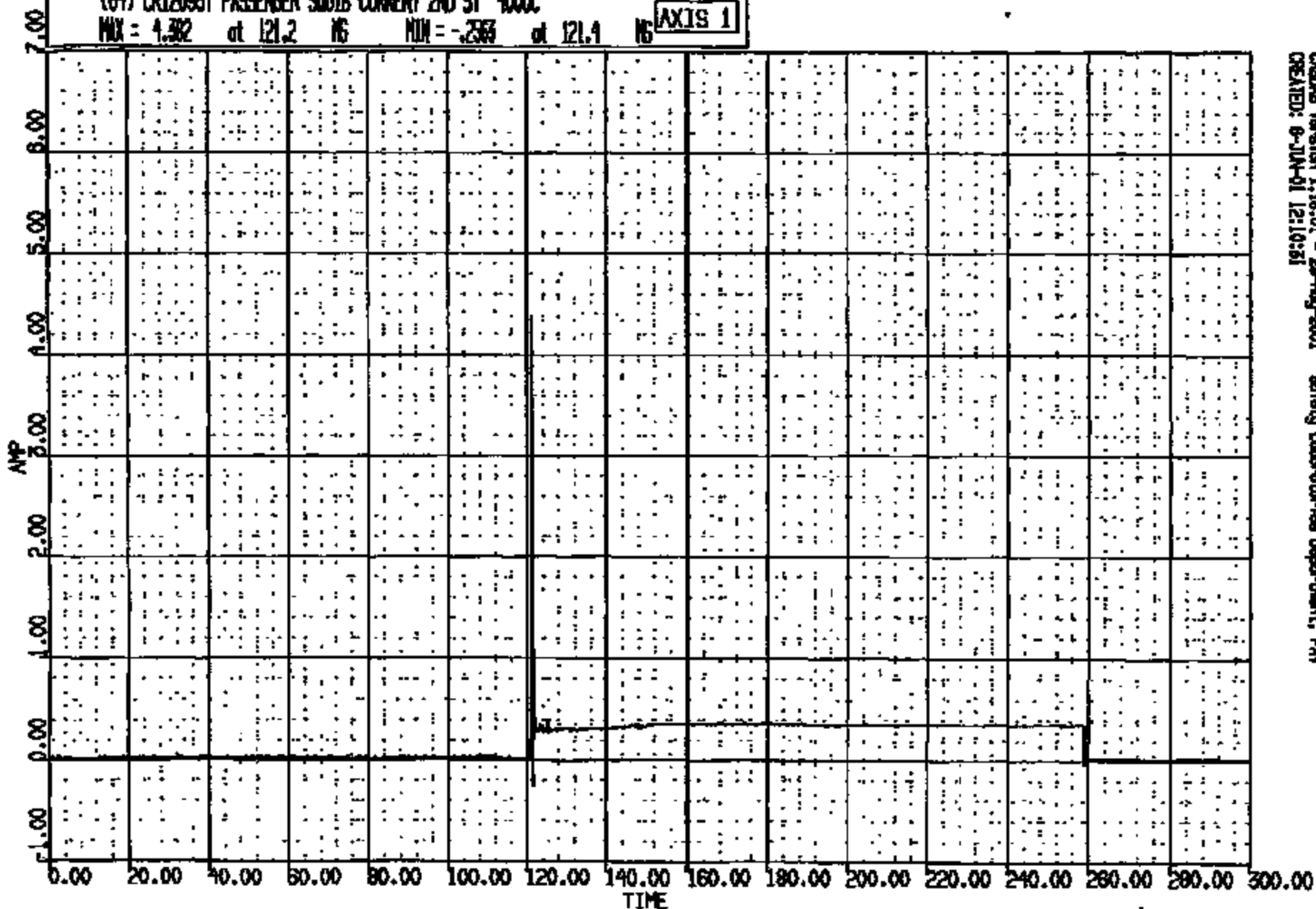
CRTS 0012093

CH R: 12093 TO: TC1931 DATE: 001804 09:29:25
2000 D198

(64) CR12093T PASSENGER SQUIB CURRENT 2ND ST 400C

MAX = 4.382 at 121.2 MS MIN = -.2363 at 121.4 MS

AXIS 1

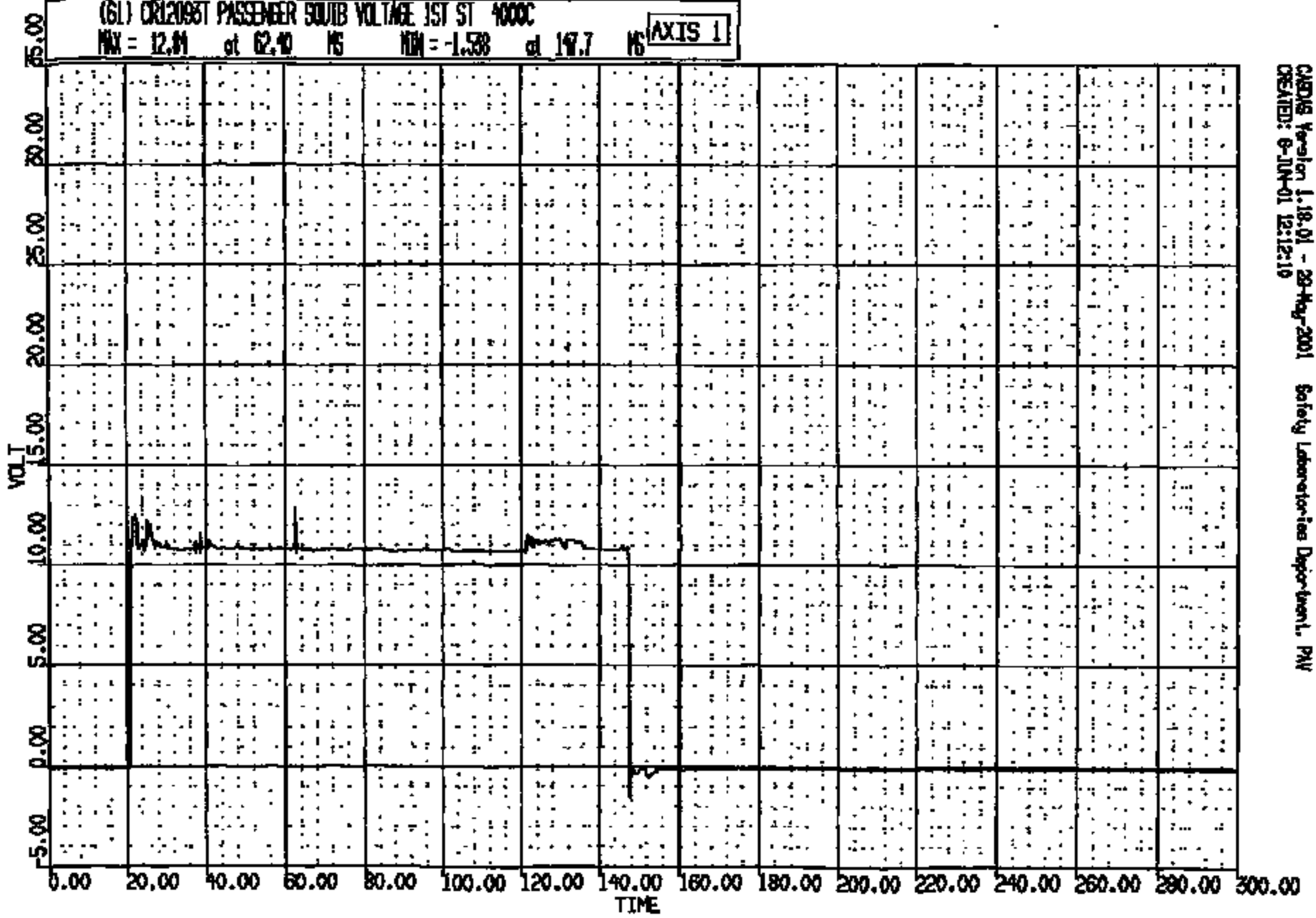


CASUS Version 1.18.01 - 29-Aug-2001 Safety Laboratories Department, PAW
CREATED: 8-JUN-01 12:10:51

CRIS 0012093

NO. R: 12093 TO: TC1851 DATE: 001206 09:29:25
2000 D186

(61) CR12098T PASSENGER SQUIB VOLTAGE 1ST ST 400C
MAX = 12.81 at 62.40 MS MIN = -1.538 at 147.7 MS **AXIS 1**



CARDIS Version 1.18.01 - 29-May-2001 Safety Laboratories Department, PAW
CREATED: 8-JUN-01 12:12:19

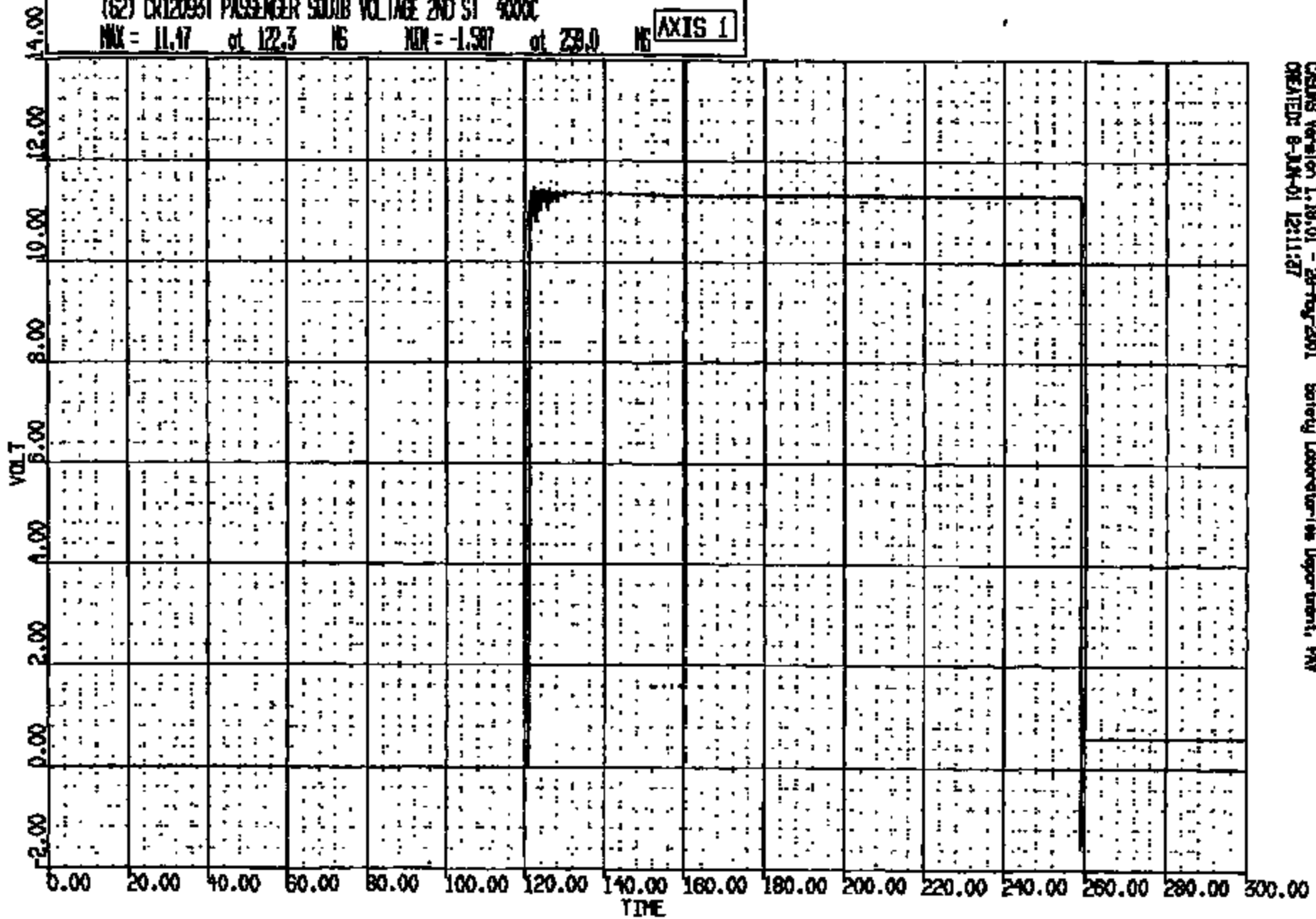
CRIS 0012093

CR R: 12098 TO: TC1831 DATE: 001208 09:29:25
2000 0188

(62) CR12098T PASSENGER SOUTH VOLTAGE 2ND ST 4000C

MAX = 11.47 at 122.5 NS MIN = -1.587 at 239.0 NS

AXIS 1



CADDS Version 1.18.01 - 29-May-2001 Safety Laboratory/In Department, PAW
CREATED: 8-JUN-01 12:11:27

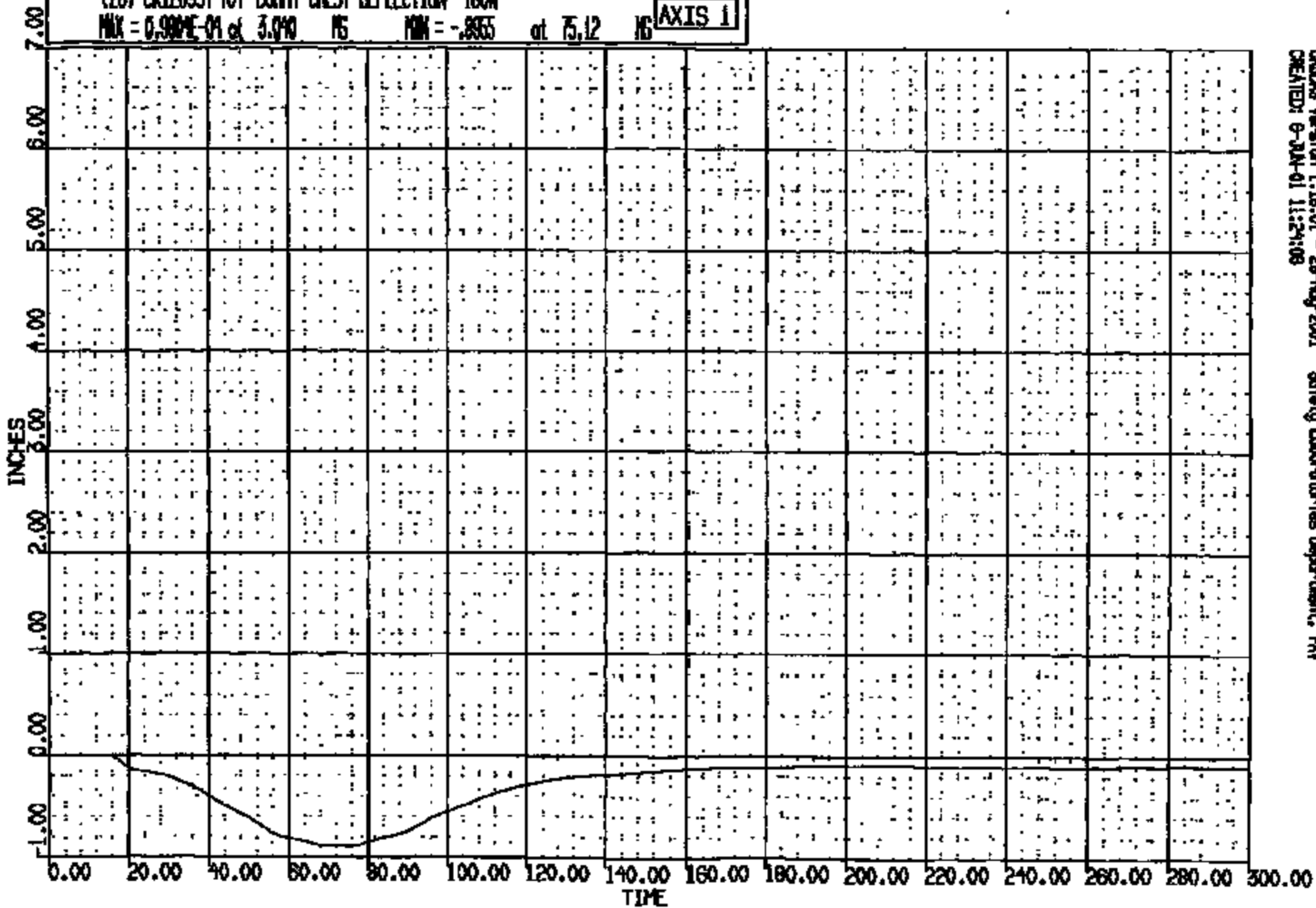
CRTS 0012093

CR R: 12093 TO: TC1831 DATE: 001208 09:29:23
2000 0188

(28) CR12093T R/F DUMMY CHEST DEFLECTION 180W

MAX = 0.980E-01 at 3.070 MS MIN = -.8955 at 75.12 MS

AXIS 1

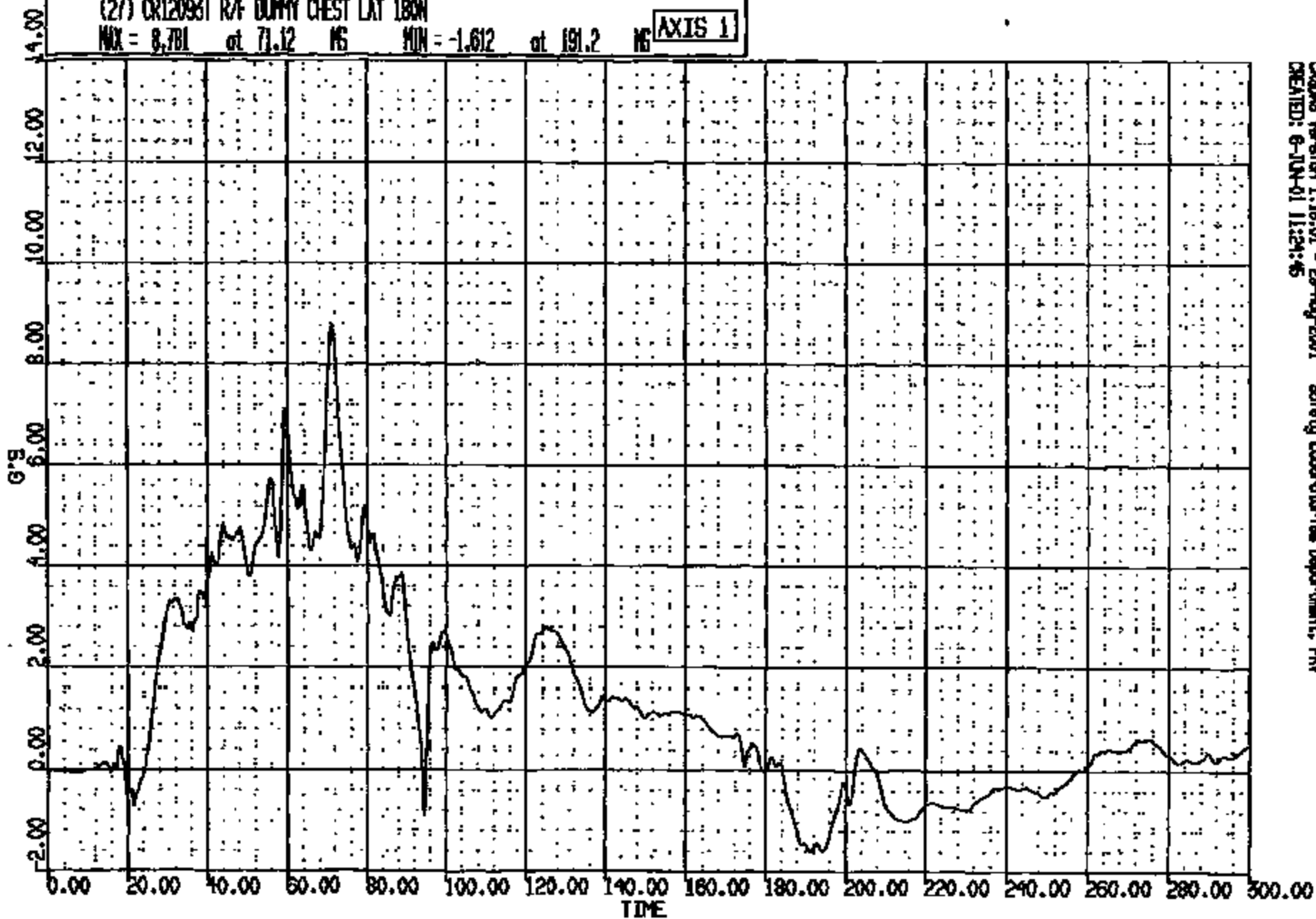


CRSDB Version 1.18.01 - 29-May-2001 Safety Laboratories Department, PHV
CREATED: 6-JUN-01 11:24:08

CRIS 0012093

NO: R: 12093 TO: TC1931 DATE: 001206 09:29:25
0000 D189

(27) CR12093T R/F DUMMY CHEST LAT 180W
MAX = 8.781 at 71.12 MS MIN = -1.612 at 191.2 MS **AXIS 1**

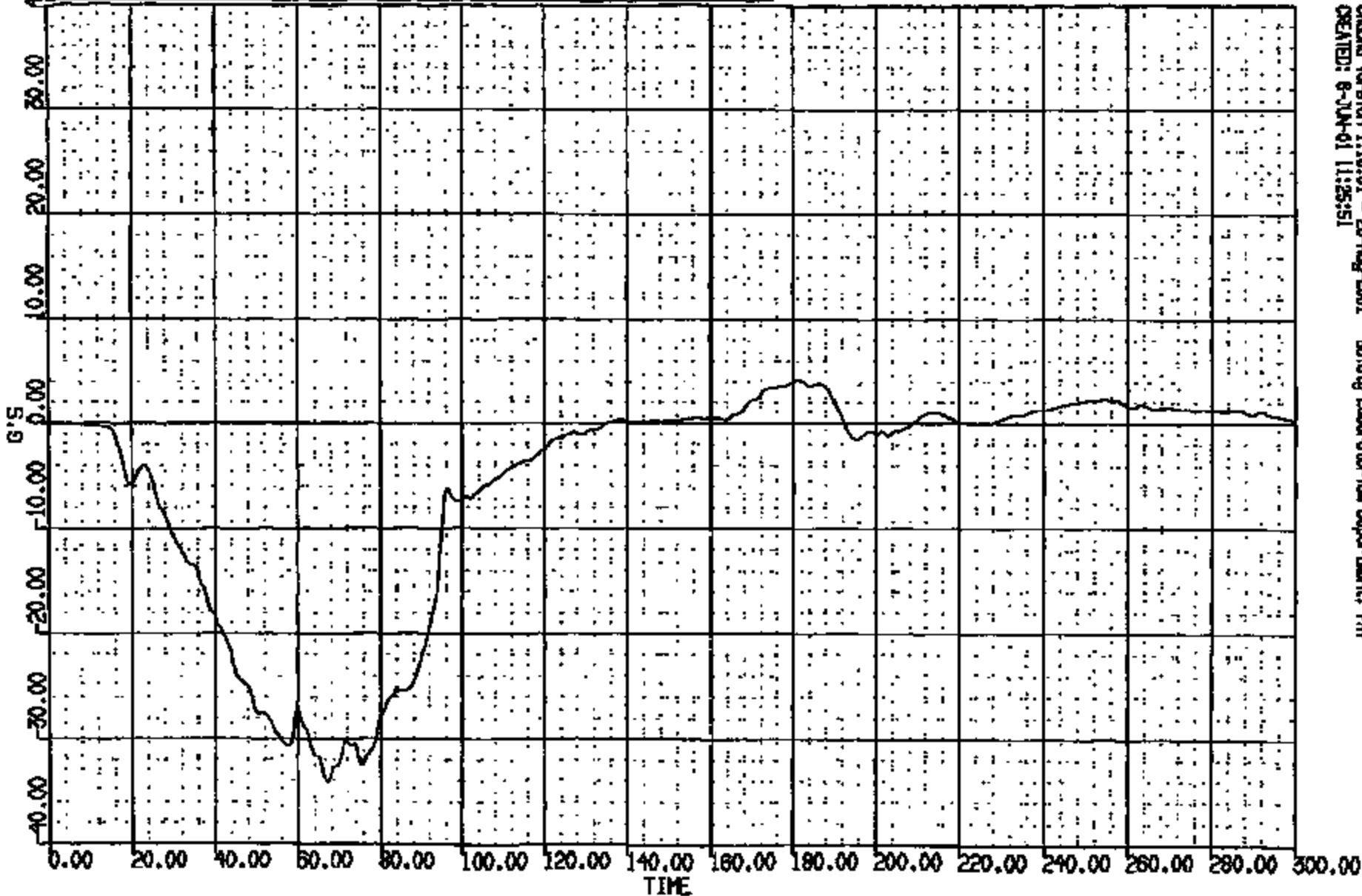


CASDS Version 1.18.01 - 29-May-2001 Safety Laboratories Department, PHV
CREATED: 6-JUN-01 11:24:45

CRTS 0012093

CH R: 12093 TO: TC1831 DATE: 001206 09:28:25
2000 0188

(25) CR12093T R/F DUNNY CHEST LONG 180M
MAX = 4.182 at 181.3 MS MIN = -31.13 at 67.12 MS **AXIS 1**

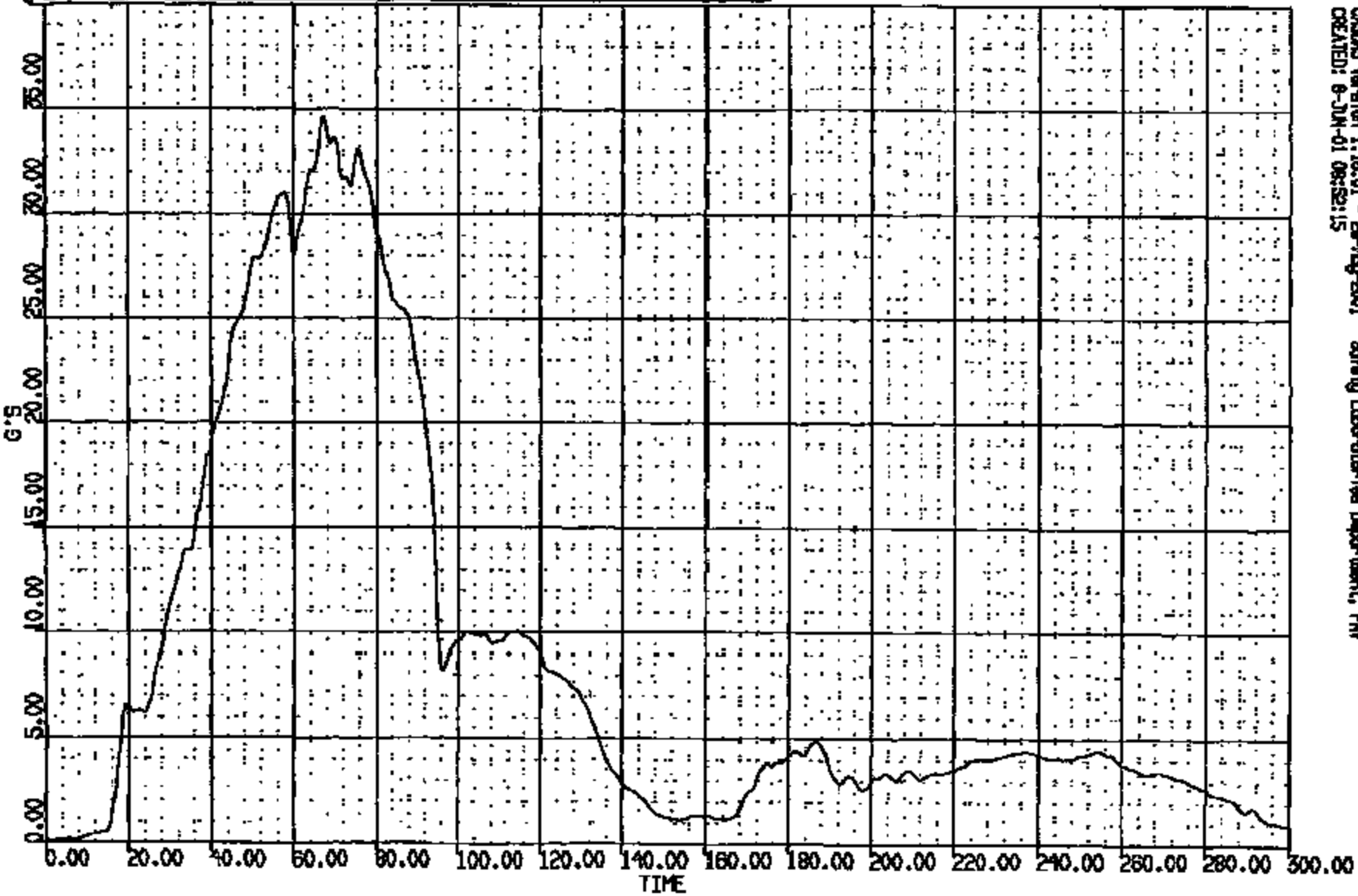


CRSIS Version 1.18.01 - 28 May 2001 Safety Laboratory Department, PHW
CREATED: 8-JUN-01 11:25:51

CRTS 0012093

OP R: 12092 TO: TC1831 DATE: 001209 09:28:28
0000 0188
CUMDUR = 55.54% Duration time = 2.0971

(10009) CR12092T R/F CUMY CHEST RES 180N
MAX = 31.69 at 67.12 NG MIN = 0.1163 at 1.520 NG **AXIS 1**

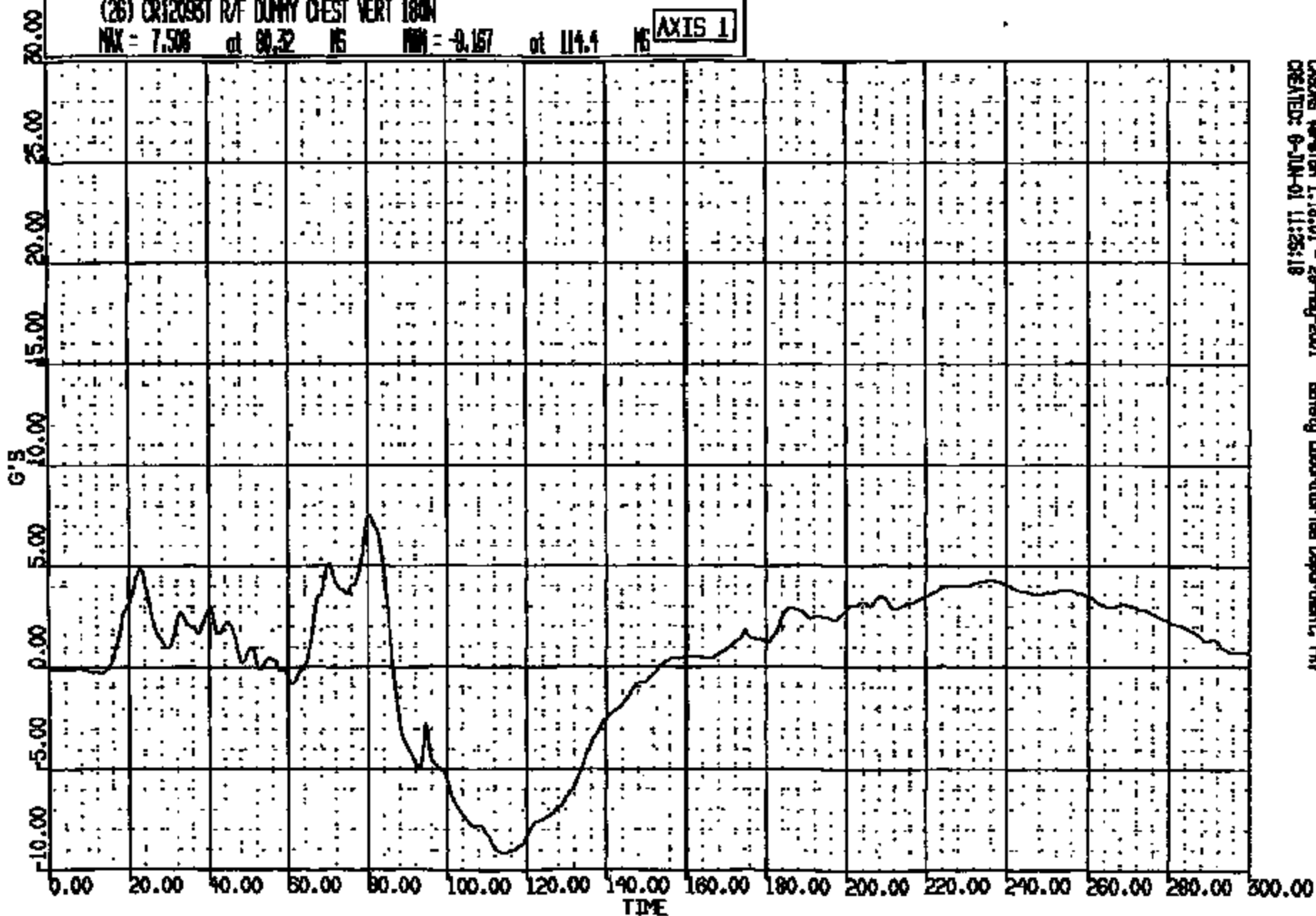


CASMS Version 1.18.01 - 29-May-2001 Safety Laboratories Department, PNV
CREATED: 9-JUN-01 09:52:15

CRIS 0012093

CR R: 12093 TO: TC1851 DATE: 001208 09:29:25
2000 D185

(26) CR12093T R/F DUNNY CHEST VERT 180N
MAX = 7.508 at 80.32 MS MIN = -9.157 at 114.4 MS **AXIS 1**



CASIMS Version 1.18.01 - 29-May-2001 Safety Laboratories Department, MNV
CREATED: 0-JUN-01 11:25:18

CRTS 0012093

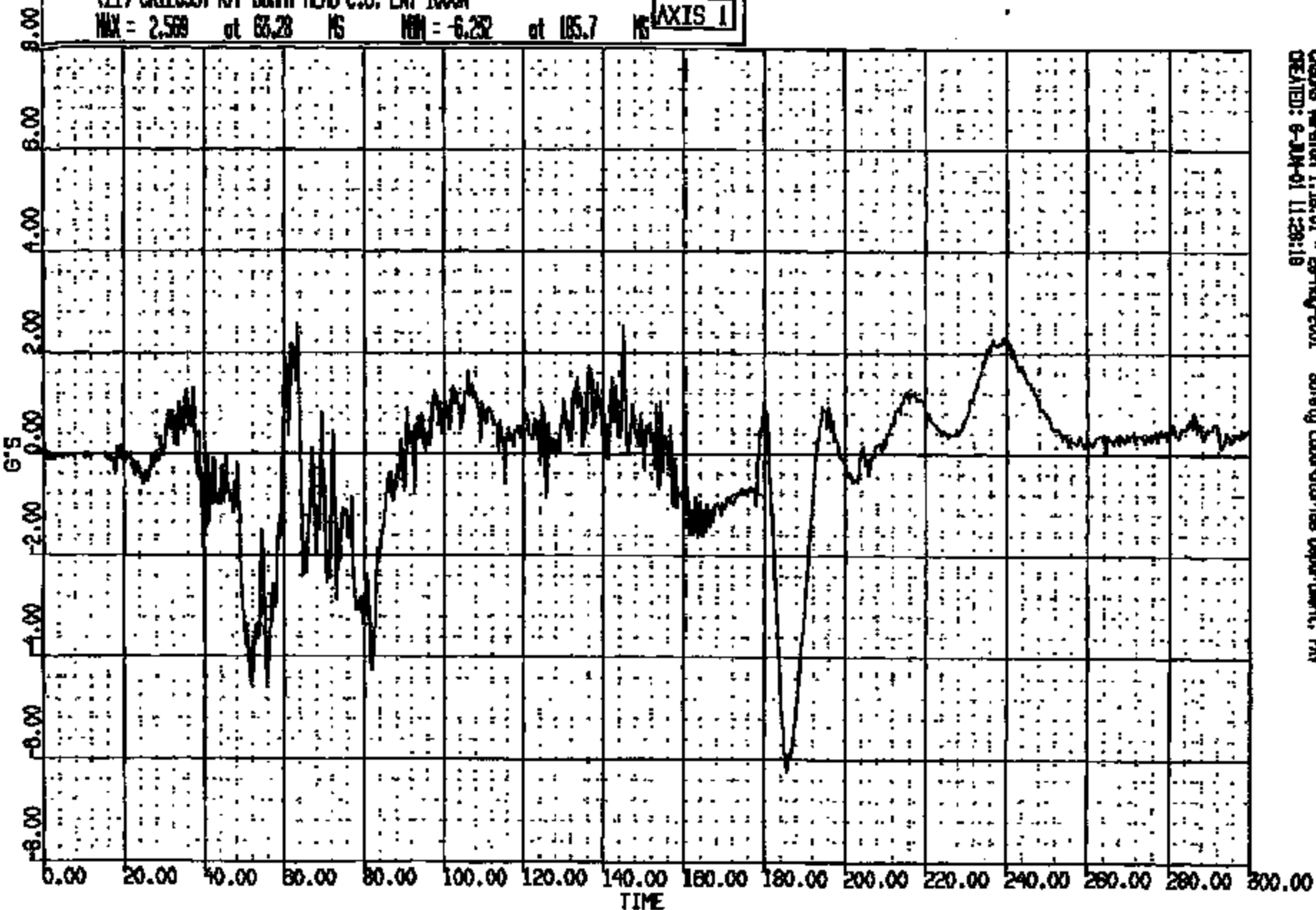
CR R: 12093 TO: TC1881 DATE: 001208 09:29:23

W000 D188

(21) CR120931 R/F DUNN HEAD C.G. LAT 1000N

MAX = 2.569 at 63.28 MS MIN = -6.232 at 185.7 MS

AXIS 1

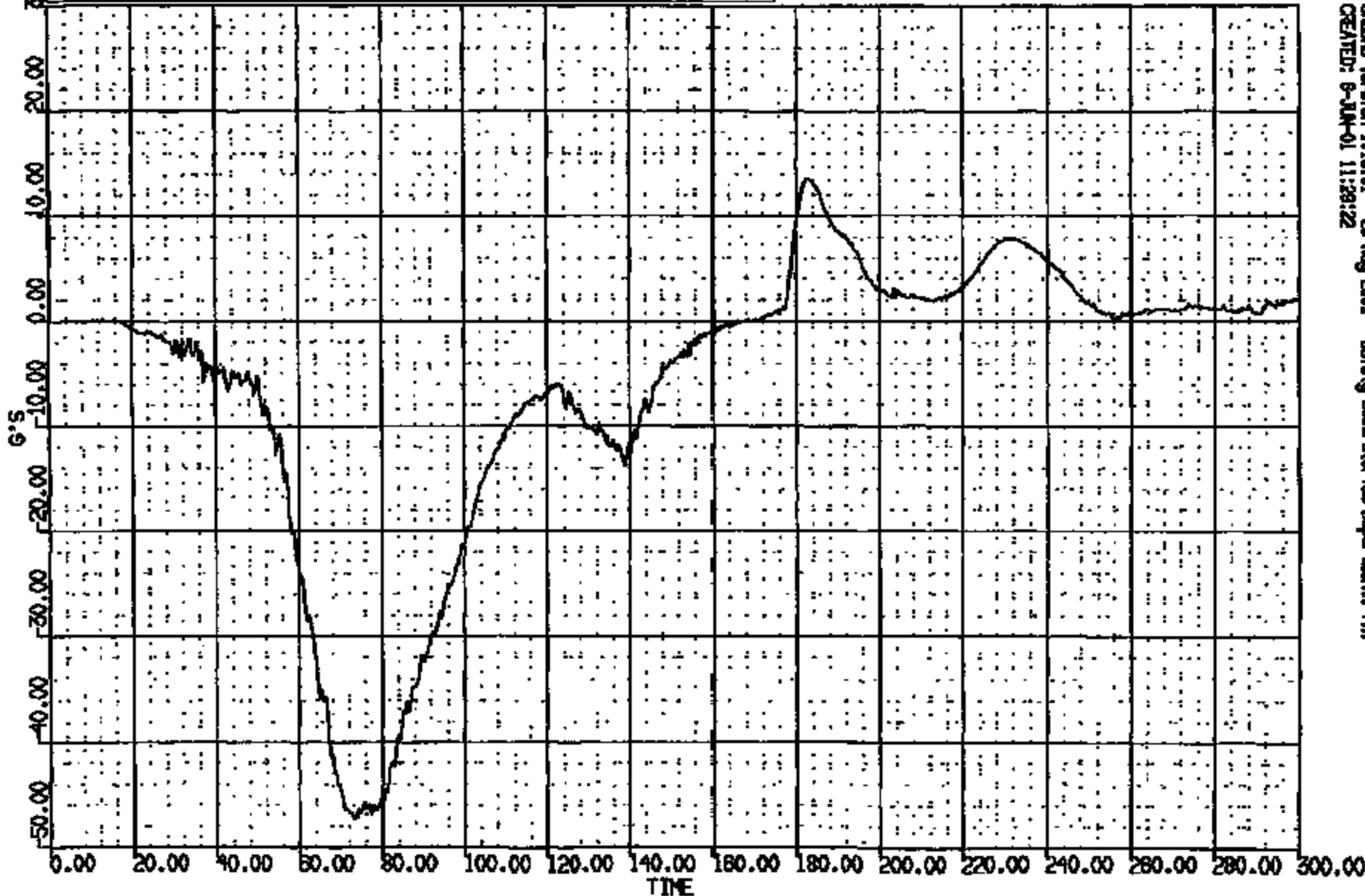


CRSUS Wavelen 1.18.01 - 29-May-2001 Safety Laboratories Department, PAV
CREATED: 6-JUN-01 11:28:18

CRIS 0012093

CN R: 12095 TO: TC1851 DATE: 001204 09:28:25
2000 D188

(19) CR12095T R/F DUMMY HEAD C.G. LONG ROOM
MAX = 13.06 at 182.8 HS MIN = -47.45 at 73.12 HS AXIS 1

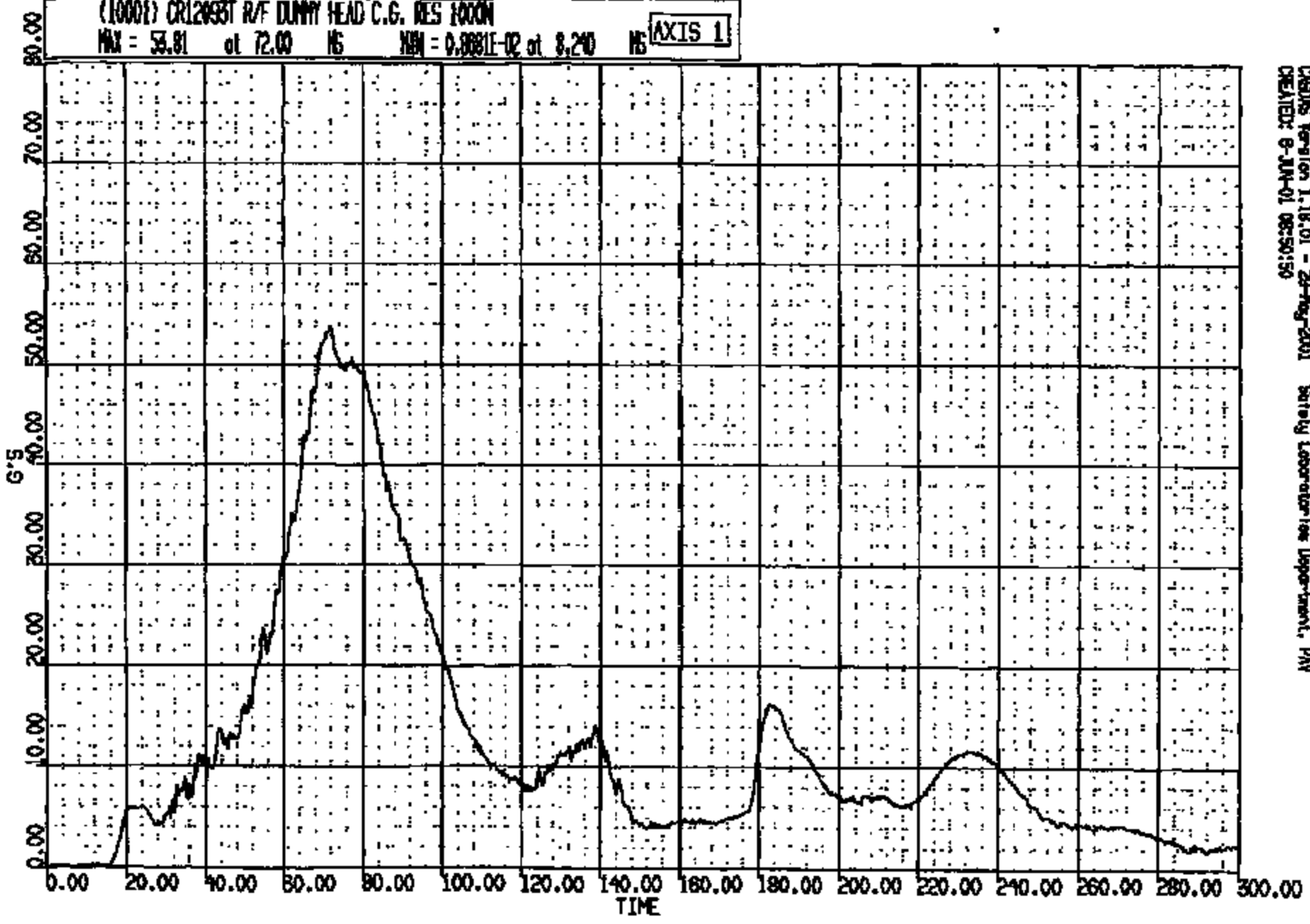


CRSMS Version 1.18.01 - 29-Aug-2001 Safety Laboratory Department, PAV
CREATED: 8-JUN-01 11:29:22

CRTS 0012093

TIME:	00:00	TO:	TC1851	DATE:	001206	09:29:25
TIME:	00:00	DUR:	240.0	T1/TR:	57.4	/// 007.0
TIME:	00:00	DUR:	80.0	T1/TR:	56.0	/// 007.0
TIME:	00:00	DUR:	18.0	T1/TR:	57.0	/// 007.0

(10001) CR1203ST R/F DUNNY HEAD C.G. RES 1000N
 MAX = 58.81 at 72.00 HS MIN = 0.0081E-02 at 8.240 HS **AXIS 1**

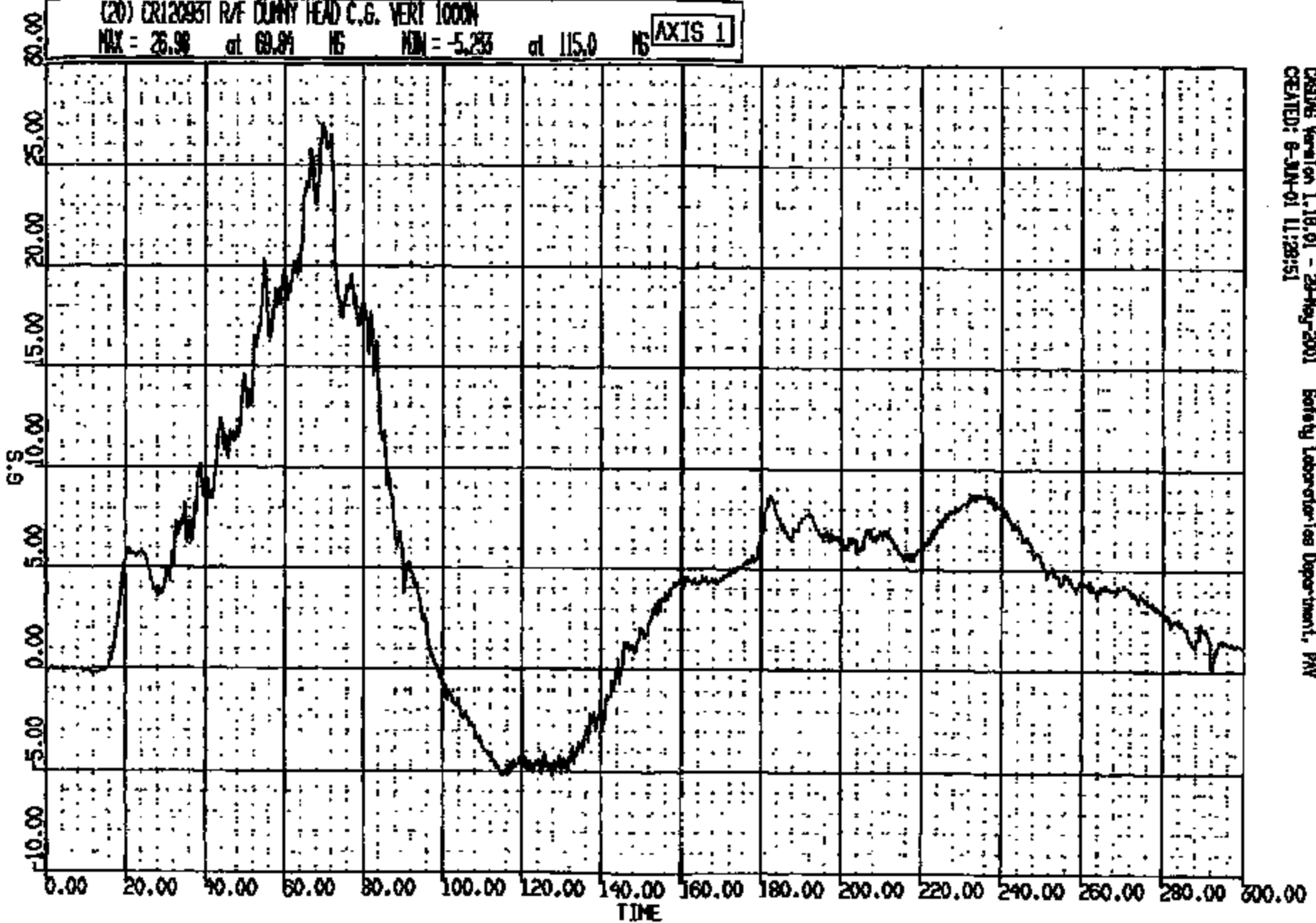


CASRS Version 1.18.01 - 29-Aug-2001 Safety Laboratories Department, PAN
 CREATED: 8-JUN-01 08:50:50

CRIS 0012093

NO. R: 12093 TO: TC1931 DATE: 001209 09:29:25
0000 D198

(20) CR120931 R/F DUNNY HEAD C.G. VERT 1000N
MAX = 26.98 at 69.84 HG MIN = -5.233 at 115.0 HG **AXIS 1**

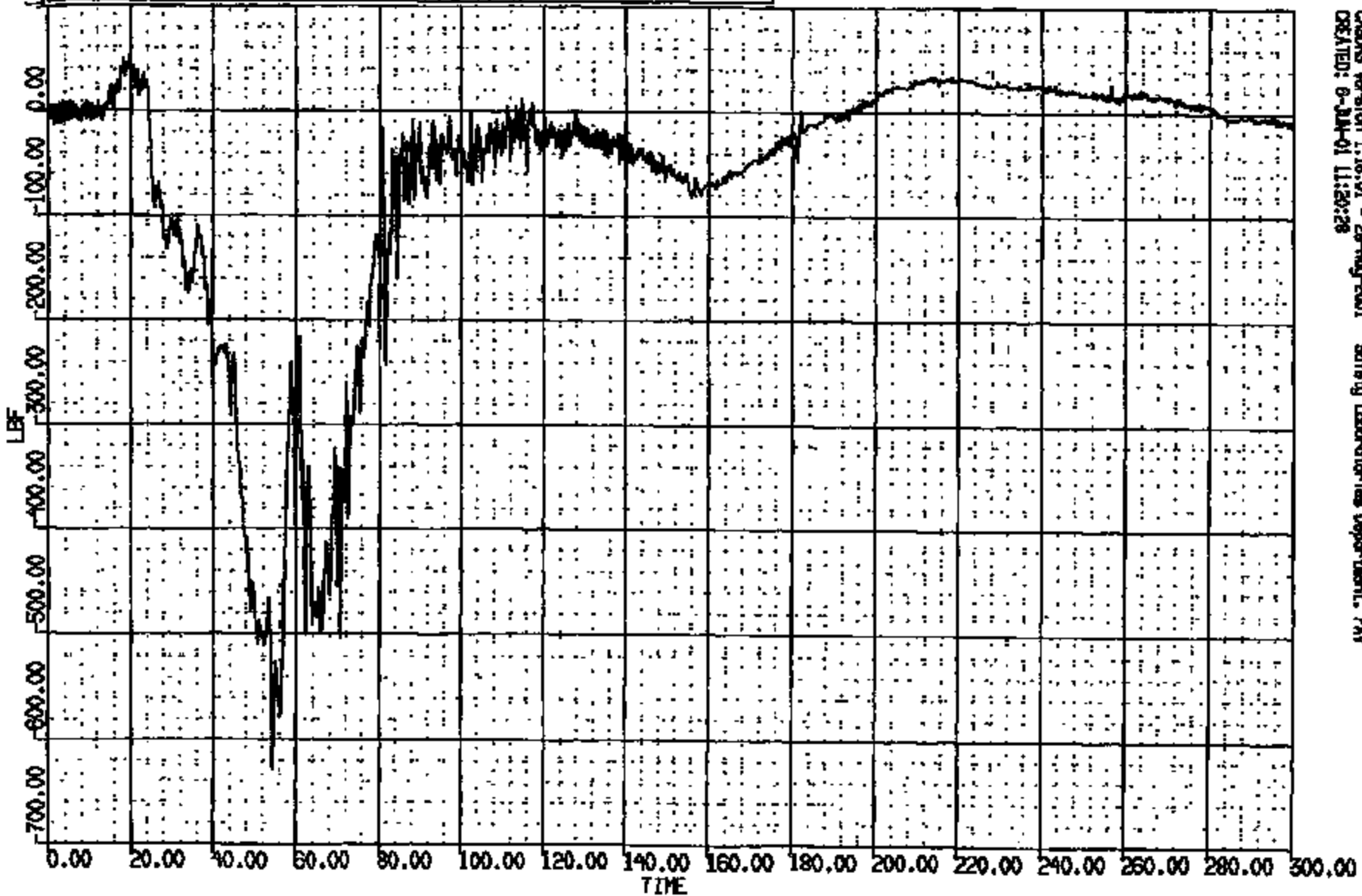


CRSIS Version 1.19.01 - 29-May-2001
CREATED: 9-JUN-01 11:28:51
Ecology Laboratories Department, PNW

CRIS 0012093

DR R: 12098 TO: TC1851 DATE: 001208 09:28:25
2000 D188

(35) CR120981 RT DUMM LA FEMUR LOW FZ 600N
MAX = 51.00 at 19.76 MS MIN = -628.6 at 51.32 MS **AXIS 1**

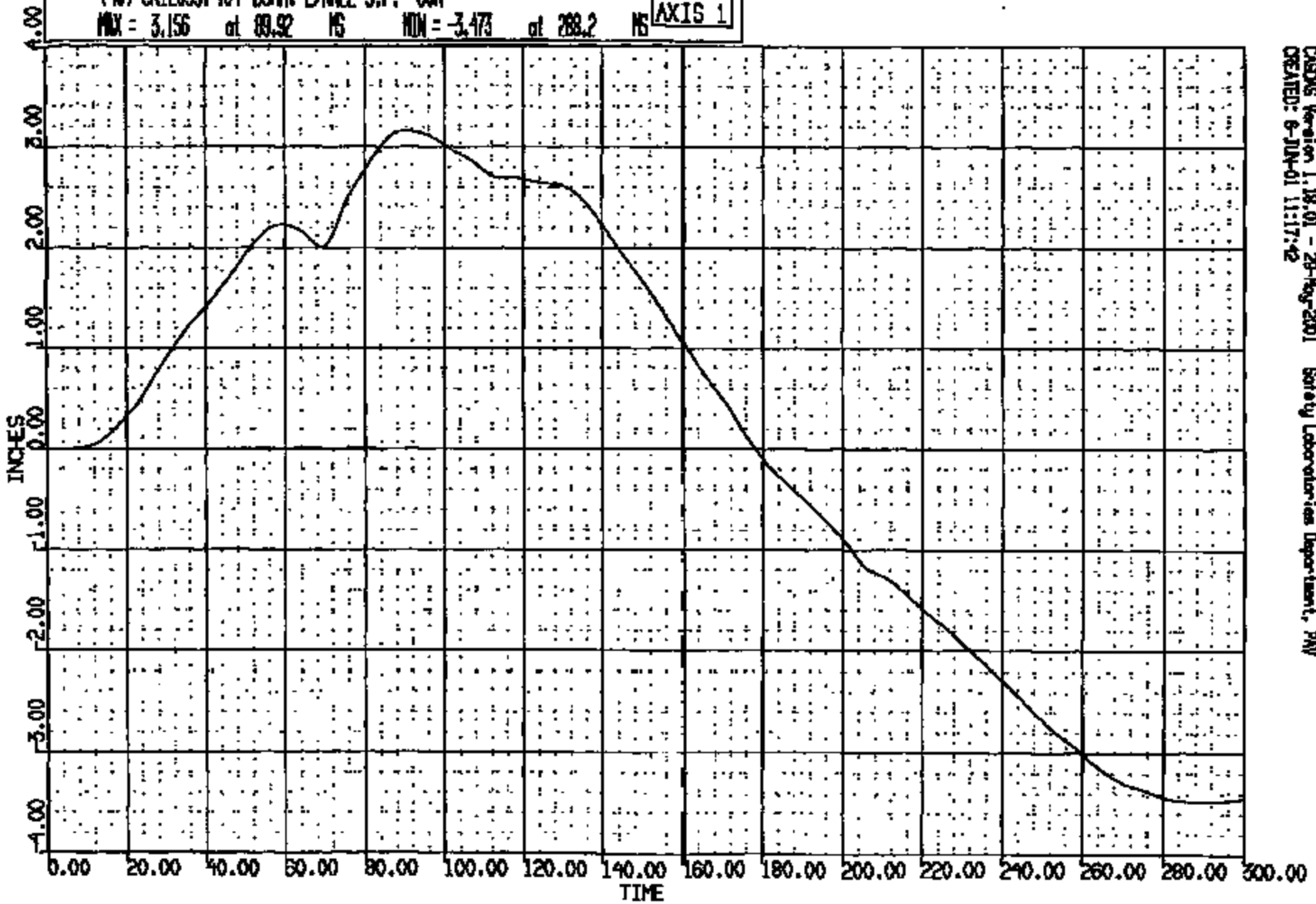


CADDS Version 1.18.01 - 29 May 2001 Safety Laboratories Department, PAW
CREATED: 8-JUN-01 11:20:28

CRTS 0012093

CR R: 12093 TO: TC1831 DATE: 001208 09:28:25
2000 D188

(40) CR12093T R/F DUMMY L/NEE S.P. 60N
MAX = 3.156 at 89.92 MS MIN = -3.473 at 288.2 MS **AXIS 1**

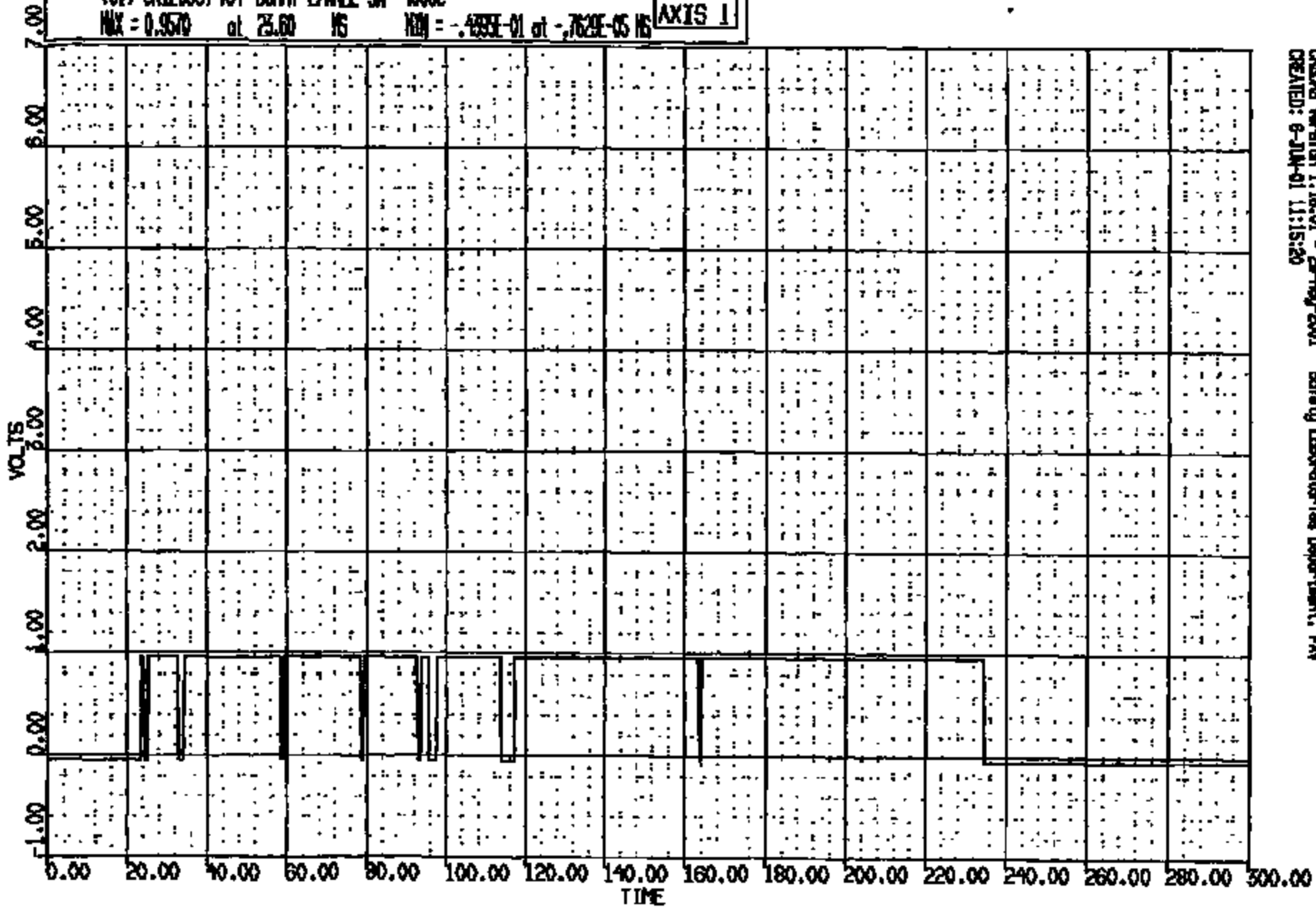


CASDS Version 1.18.01 - 28-Aug-2001 Safety Laboratories Department, PAW
CREATED: 6-JUN-01 11:17:42

CRTS 0012093

DR R: 12093 TO: TC1851 DATE: 001208 09:29:25
2000 D188

(51) CR12093T R/F TUNNY L/VNCE SN 4000C
MAX = 0.9570 at 23.60 NS MIN = -.4893E-01 at -.7629E-05 NS **AXIS 1**



CASMG Version 1.18.01 - 29-May-2001 Safety Laboratories Department, PAW
CREATED: 6-JUN-01 11:15:20

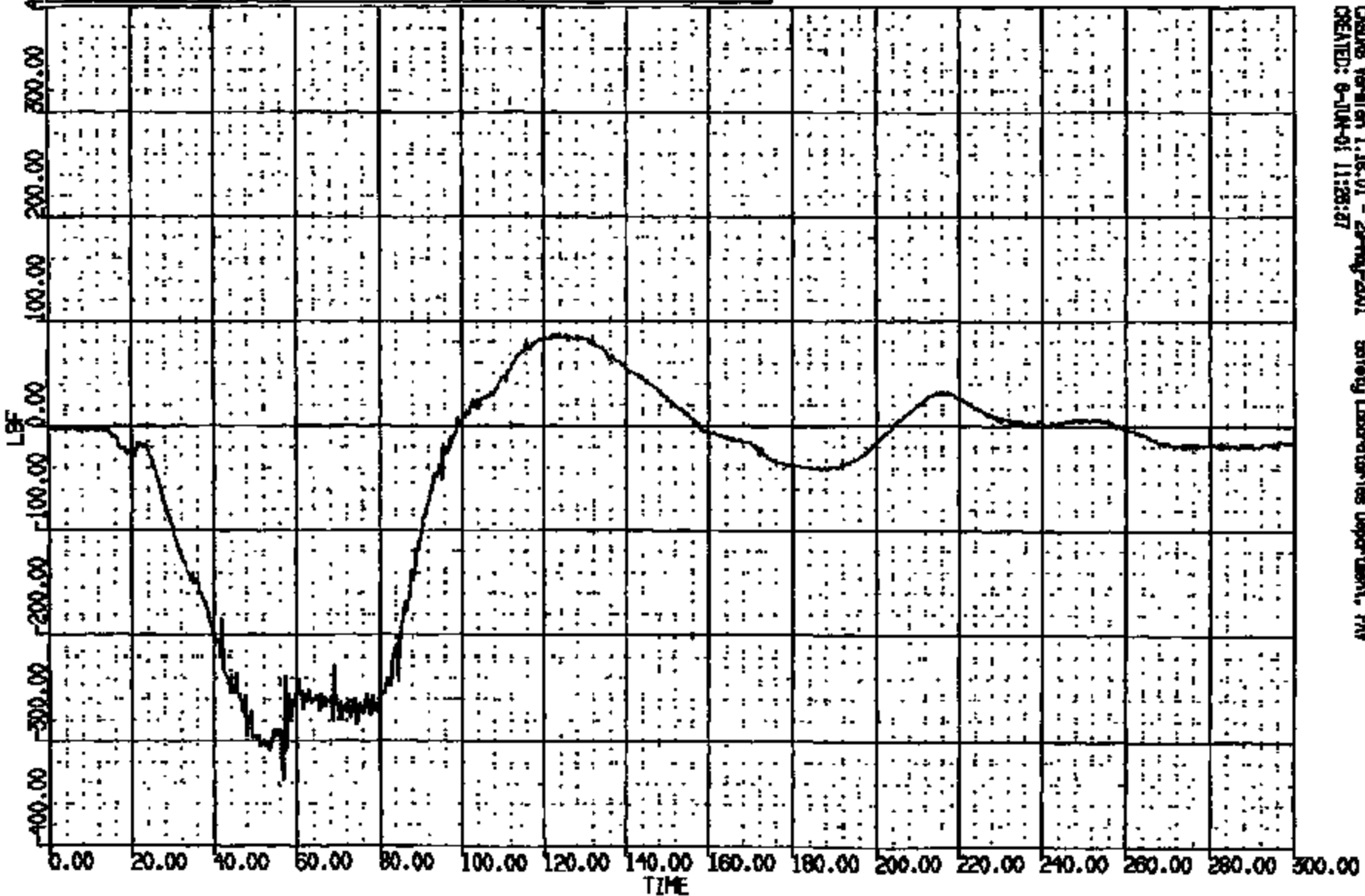
CRTS 0012093

CR R: 12093 TO: TC1981 DATE: 001209 00:29:25
2000 DISB

(29) CR12093T R/F DUMMY LUMBAR SPINE LOAD FX 1000N

MAX = 88.37 at 123.8 MS MIN = -326.8 at 56.72 MS

AXIS 11

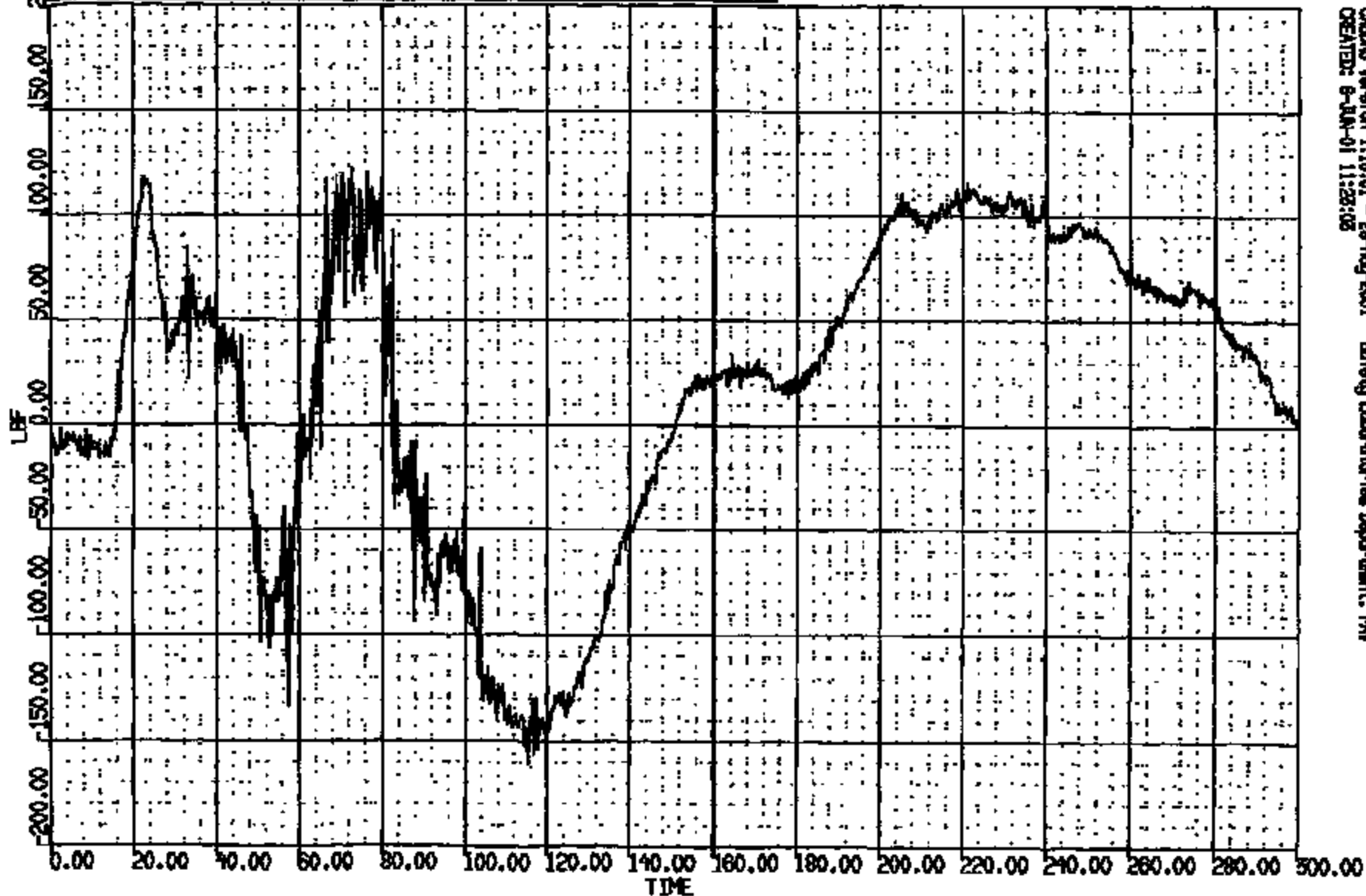


CH2DS Version 1.18.01 - 29-May-2001 Safety Laboratories Department, PNW
CREATED: 9-JUN-01 11:28:27

CRTS 0012093

CK R: 12093 TO: TC1831 DATE: 001206 09:28:25
2000 0188

(30) CRT2093T R/F DUMMY LUMBAR SPINE LOAD FZ 1000N
MAX = 122.6 at 72.80 MS MIN = -160.6 at 115.4 MS **AXIS 1**

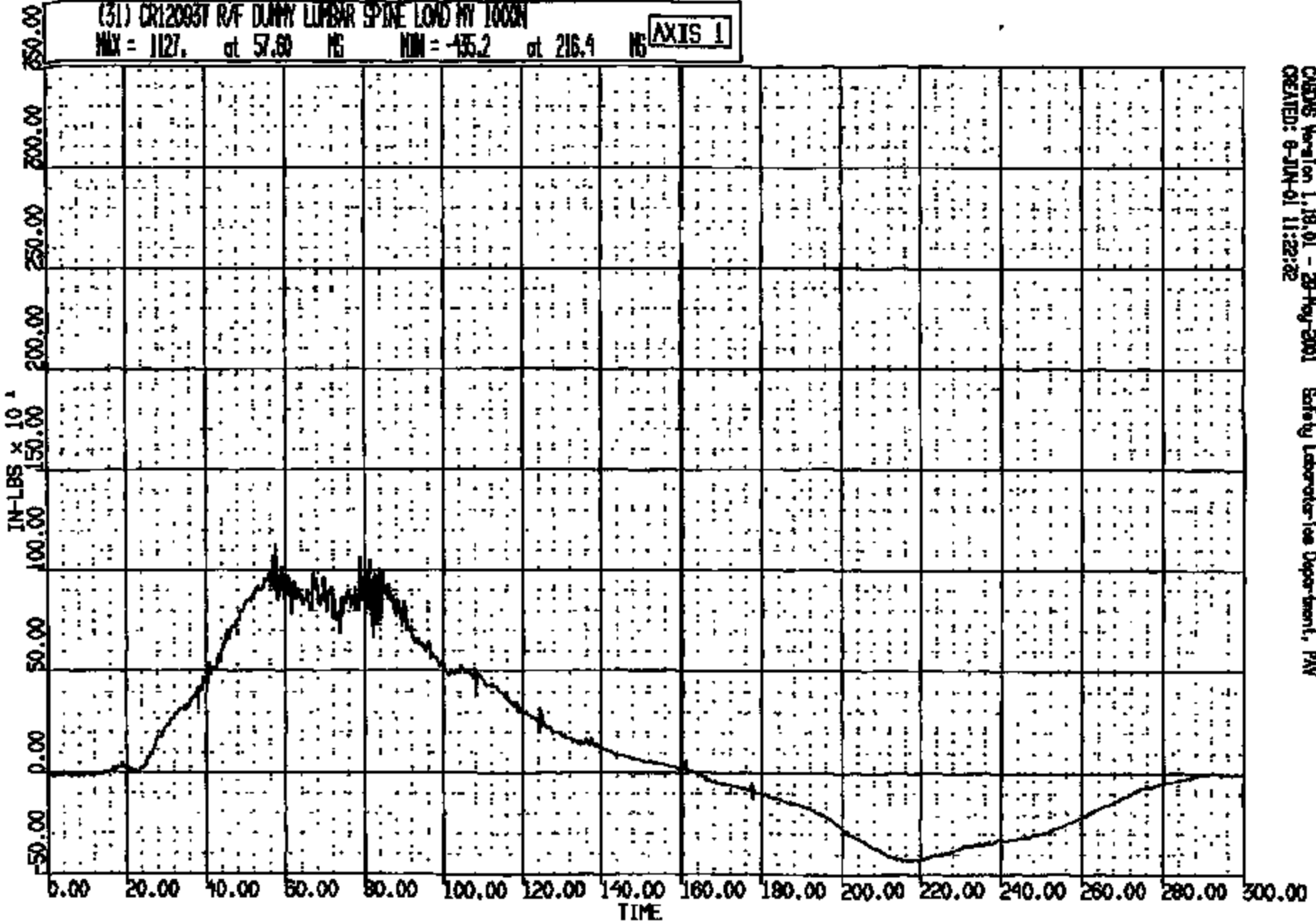


CASDS Version 1.18.01 - 29-May-2001 Safety Laboratories Department, PAW
CREATED: 6-JUN-01 11:28:08

CRTS 0012093

RUN R: 12093 TO: TC1831 DATE: 001208 08:28:25
R000 D188

(31) CR12093T R/F DUMMY LUMBAR SPINE LOAD NY 1003N
MAX = 1127. at 57.60 MS MIN = -435.2 at 216.4 MS **AXIS 1**



CARDIG Version 1.18.01 - 28-May-2001 Safety Laboratories Department, PAW
CREATED: 8-JUN-01 11:22:22

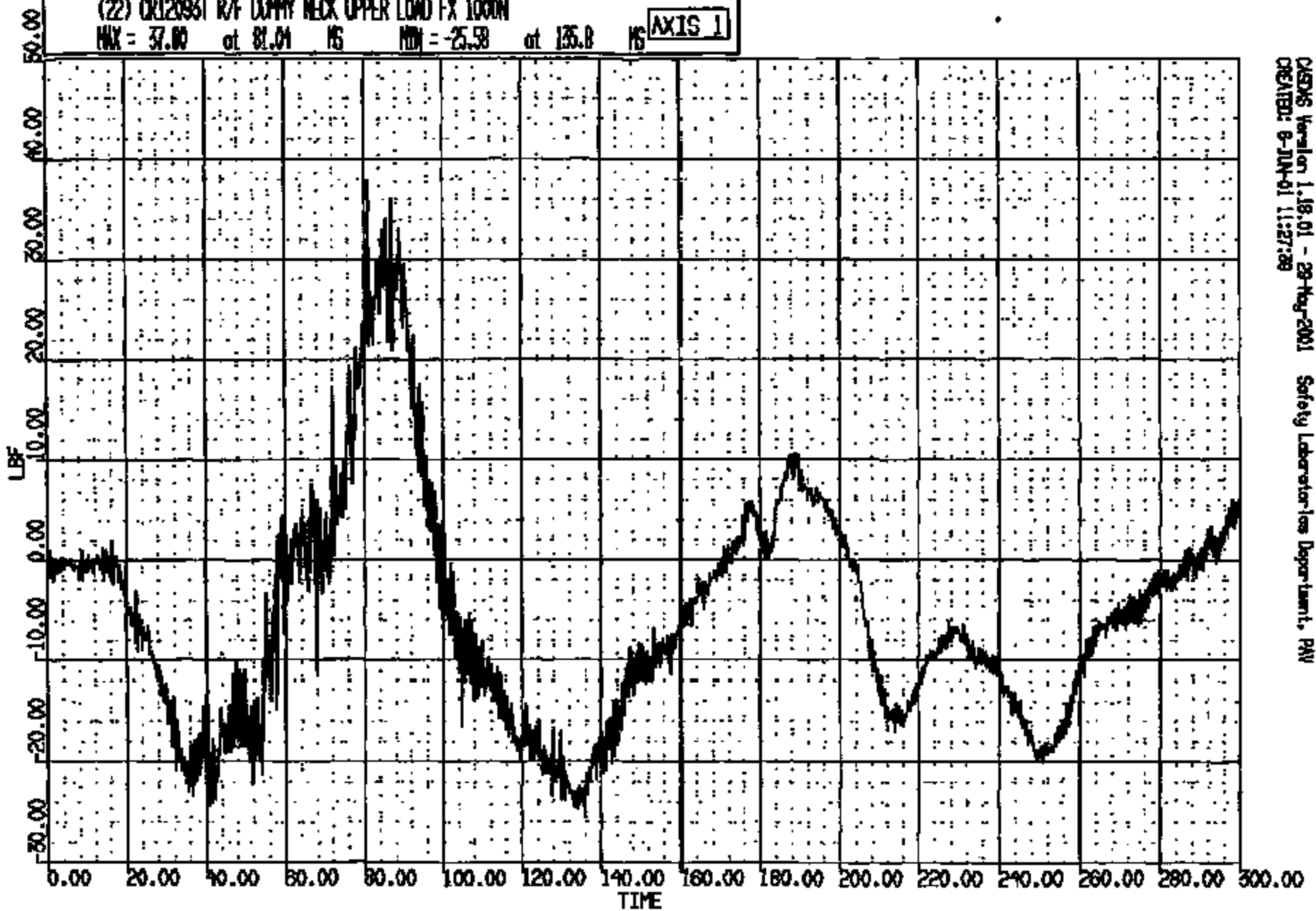
CRTS 0012093

CR R: 12093 TO: TC1851 DATE: 001208 08:28:28
R000 D188

(22) CR12093T R/F DUMMY NECK UPPER LOAD FX 1000N

MAX = 37.00 at 81.01 MS MIN = -25.58 at 135.0 MS

AXIS 1



CADDS Version 1.18.01 - 28-May-2001 Safety Laboratories Department, PAU
CREATED: 6-JUN-01 11:27:28

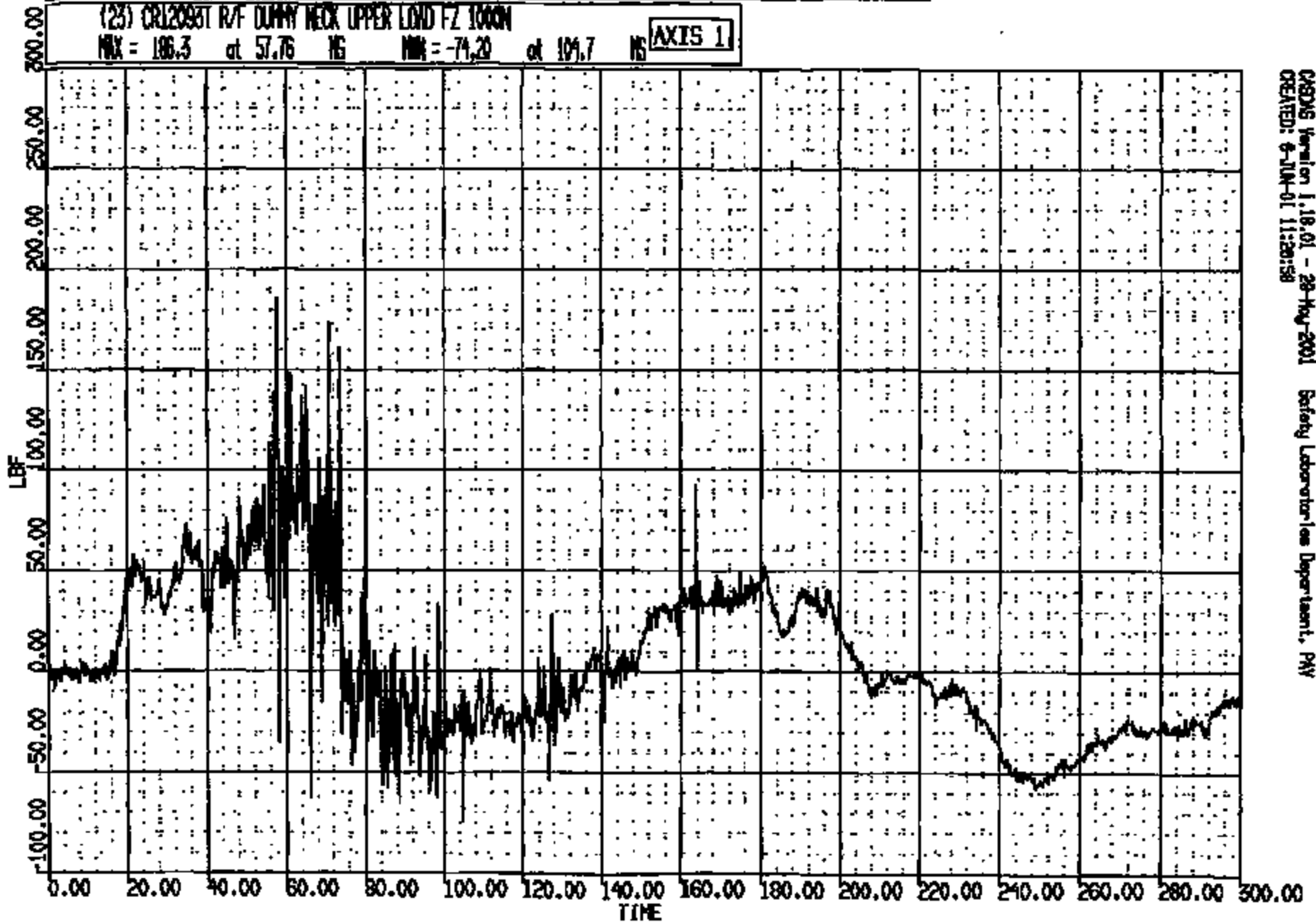
CRIS 0012093

CR R: 12093 TO: TC1831 DATE: 001206 09:29:25
2000 D188

(23) CR12093T R/F DUMMY NECK UPPER LIND FZ 1000N

MAX = 186.3 at 57.76 MS MIN = -74.20 at 109.7 MS

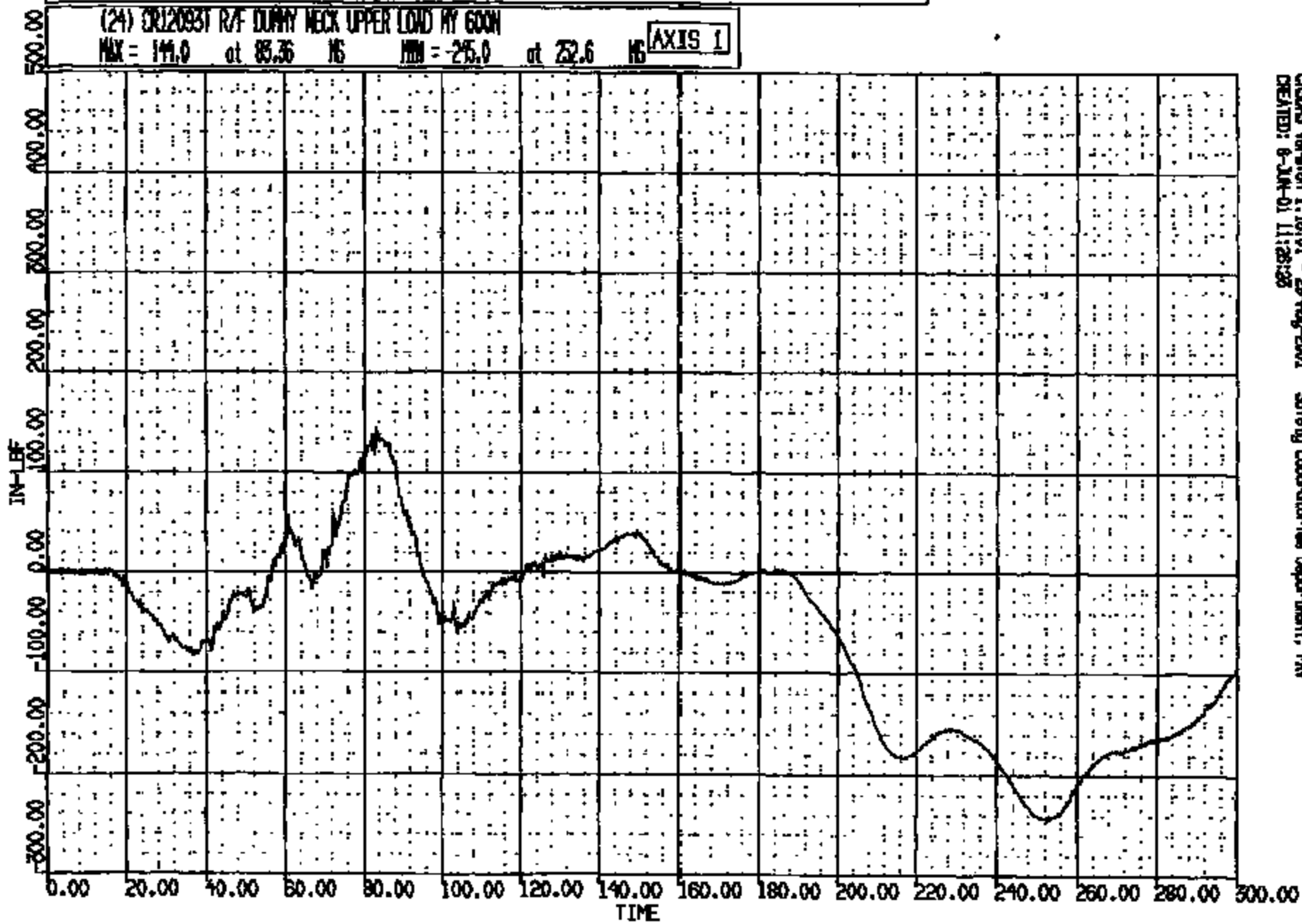
AXIS 1



CASDS Version 1.18.01 - 28-May-2001 Safety Laboratories Department, PAW
CREATED: 6-JUN-01 11:20:58

CR R: 12093 TO: TC1851 DATE: 001208 09:26:25
2000 DISB

(24) CR12093T R/F DUMMY NECK UPPER LOAD MY 600N
MAX = 141.0 at 85.36 MS MIN = -235.0 at 232.6 MS **AXIS 1**

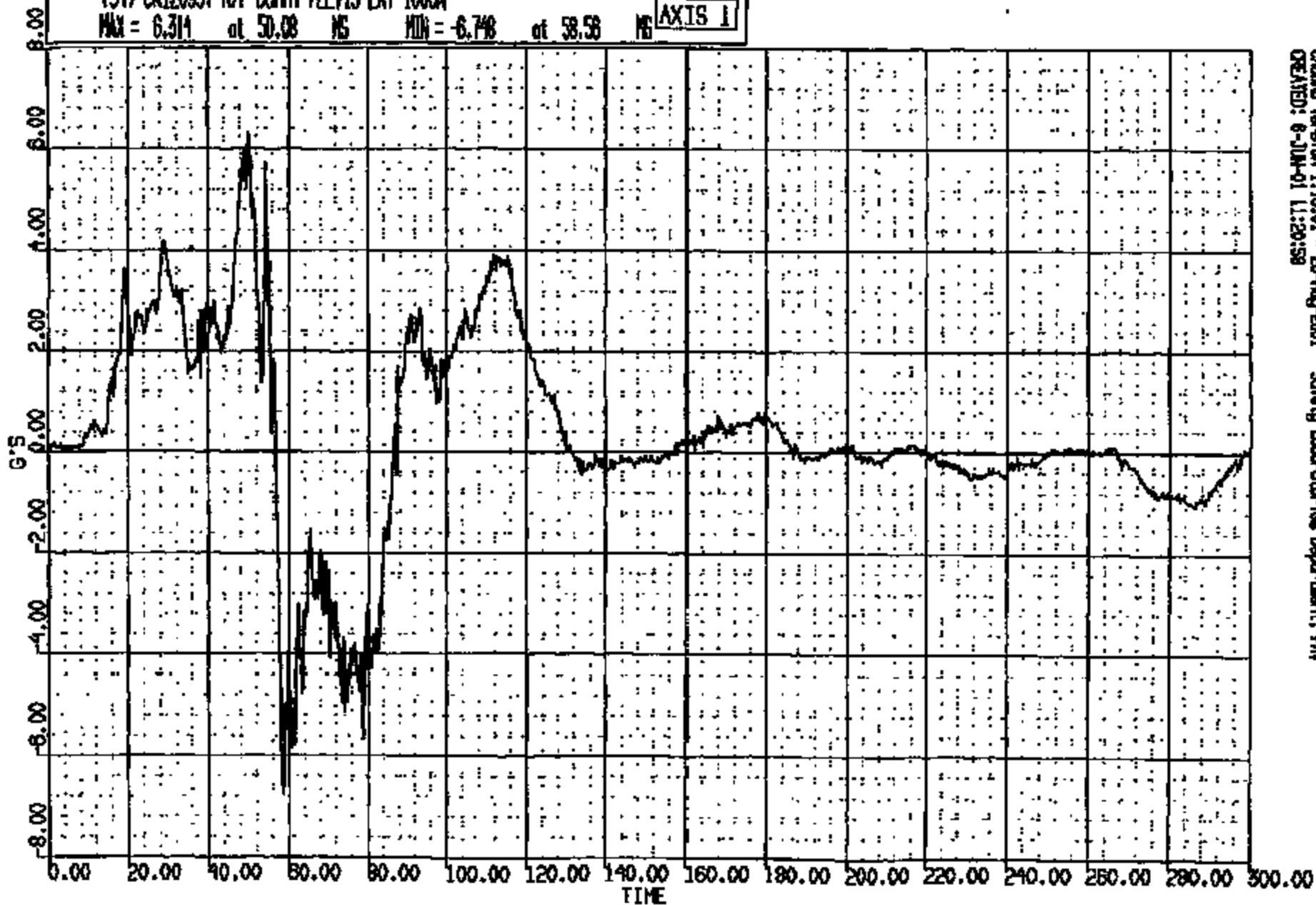


CASDAS Version 1.18.01 - 29-Aug-2001 Safety Laboratories Department, PAW
CREATED: 6-JUN-01 11:28:38

CRIS 0012093

R: 12093 TO: TC1831 DATE: 001206 09:29:25
R000 D198

(34) CR12093T R/F DUMMY PELVIS LAT 100CM
MAX = 6.314 at 50.08 MS MIN = -6.746 at 58.58 MS **AXIS 1**



CRS015 Revision 1.19.01 - 29-May-2001 Safety Laboratories Department, PMW
CREATED: 6-JUN-01 11:20:58

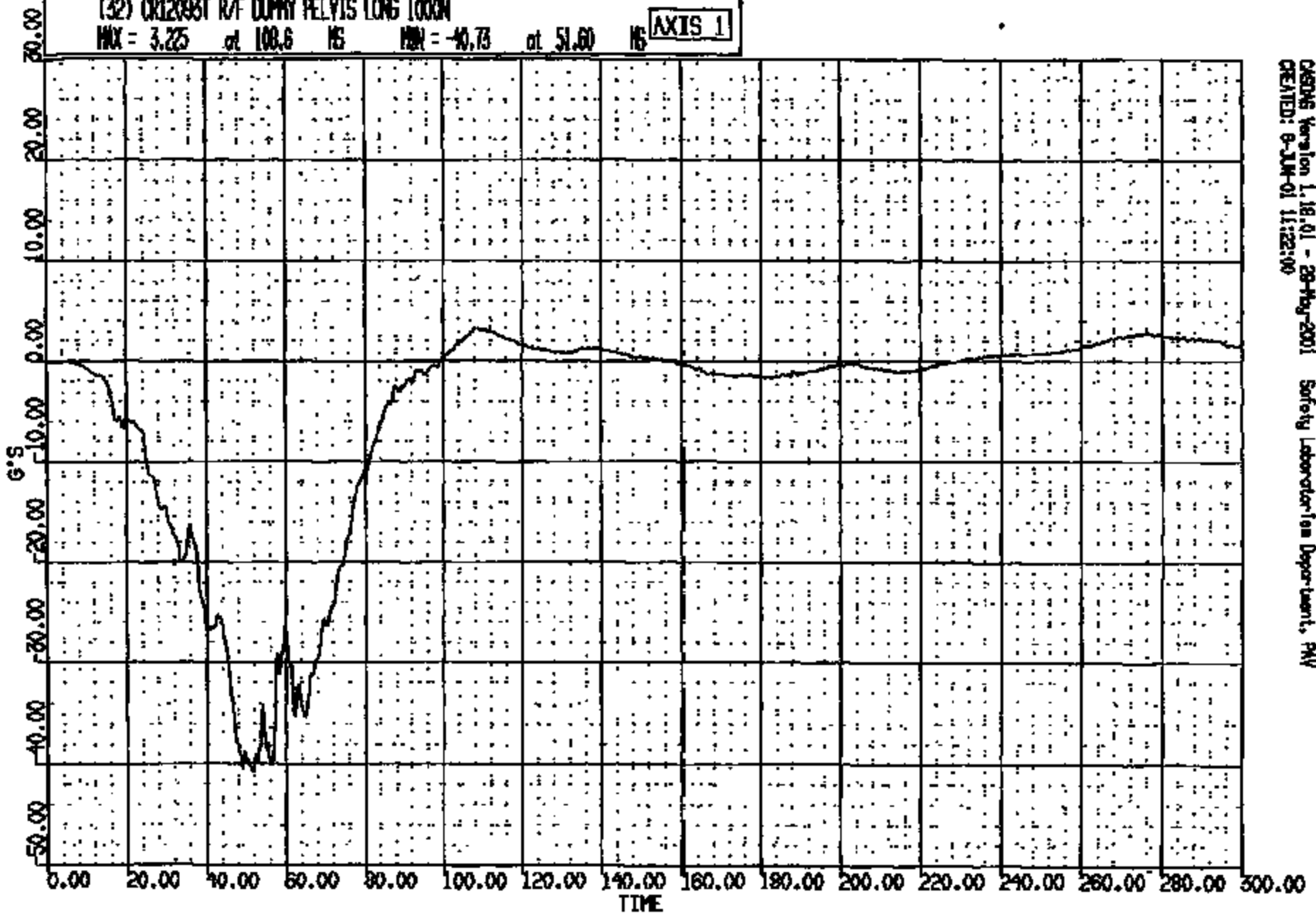
CRTS 0012093

CR R: 12093 TO: TC1831 DATE: 001206 08:28:26
2000 D188

(32) CR12093T R/F DUMMY PELYS LONG 1000N

MAX = 3.25 at 100.6 MS MIN = -40.73 at 51.00 MS

AXIS 1



CRS06 Version 1.18.01 - 28-Aug-2001 Safety Laboratory Department, PNY
CREATED: 8-JUN-01 11:22:00

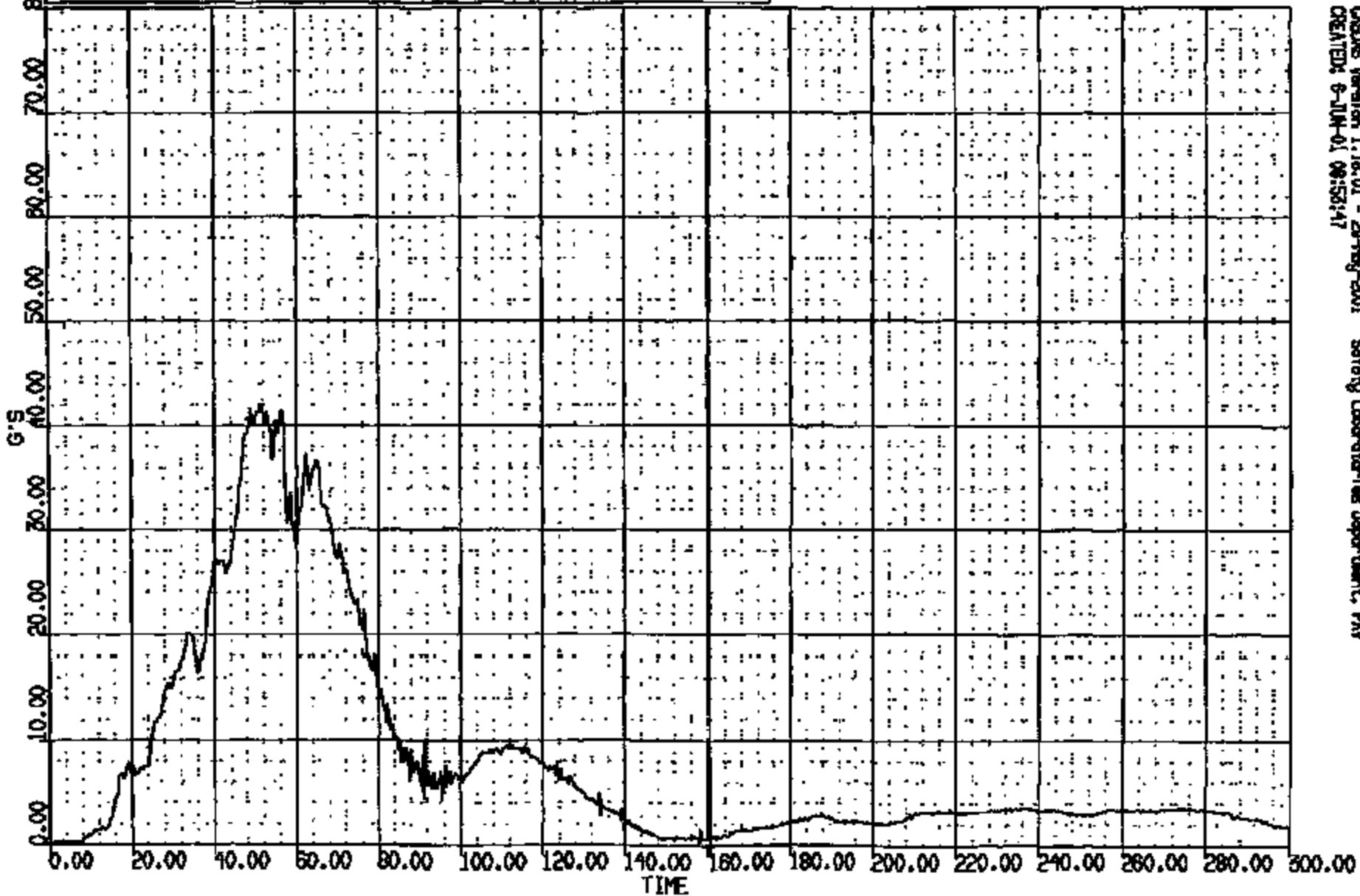
CRIS 0012093

CR R: 12093 TD: TC1851 DATE: 001208 09:29:25
2000 D188

(10013) CR12093T R/F DUMMY PELVIS RES 1000N

MAX = 41.96 at 51.60 MS MIN = 0.1614 at 0.2400 MS

AXIS 1

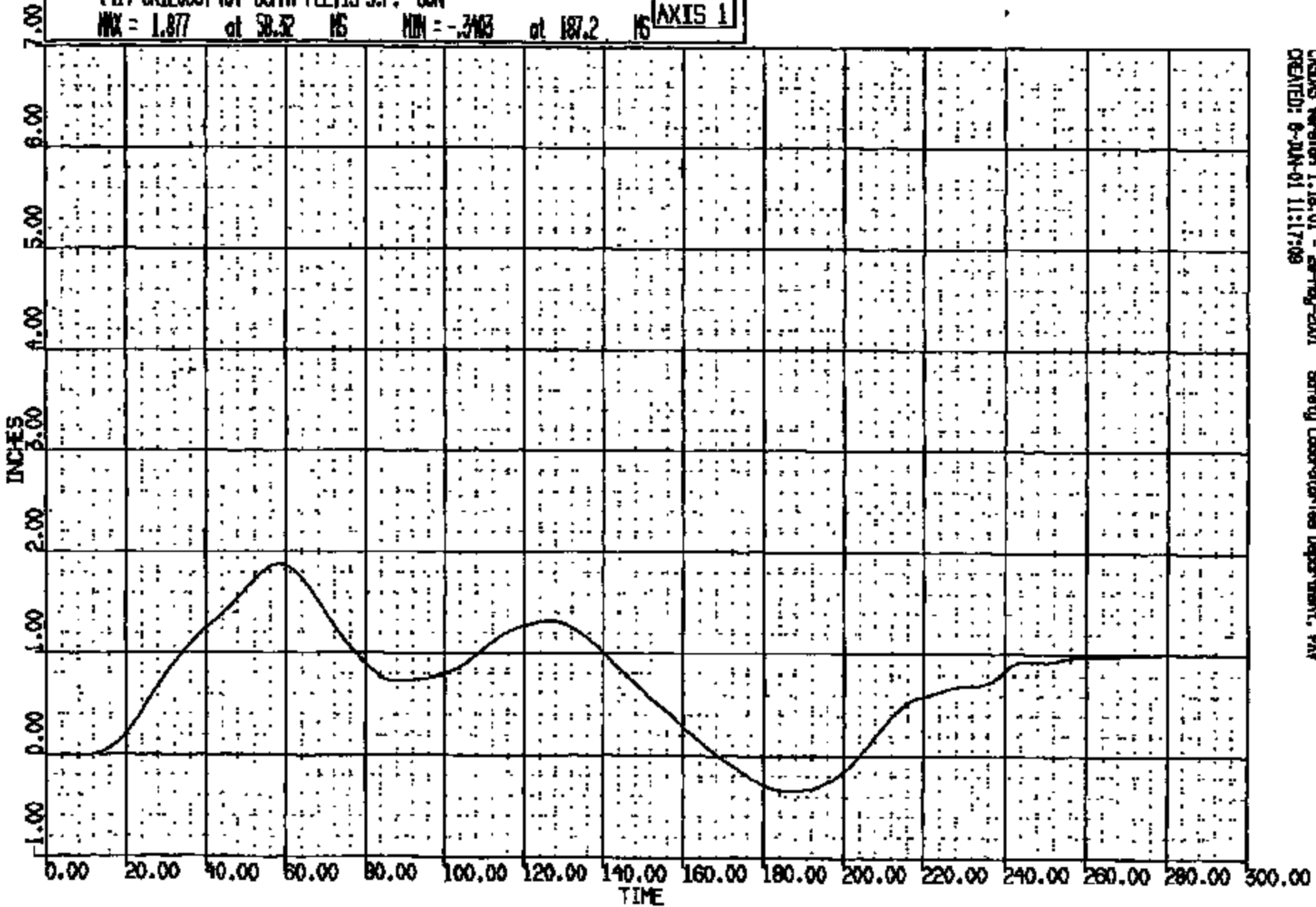


CASDS Version 1.18.01 - 29-May-2001 Safety Laboratories Department, PAW
CREATED: 6-JUN-01 09:53:47

CRTS 0012093

CR R: 12093 TO: TC1831 DATE: 001206 09:29:25
2000 D186

(41) CR12093T R/F DUMMY PELVIS S.P. 60N
MAX = 1.877 at 58.32 MS MIN = -.3403 at 187.2 MS **AXIS 1**

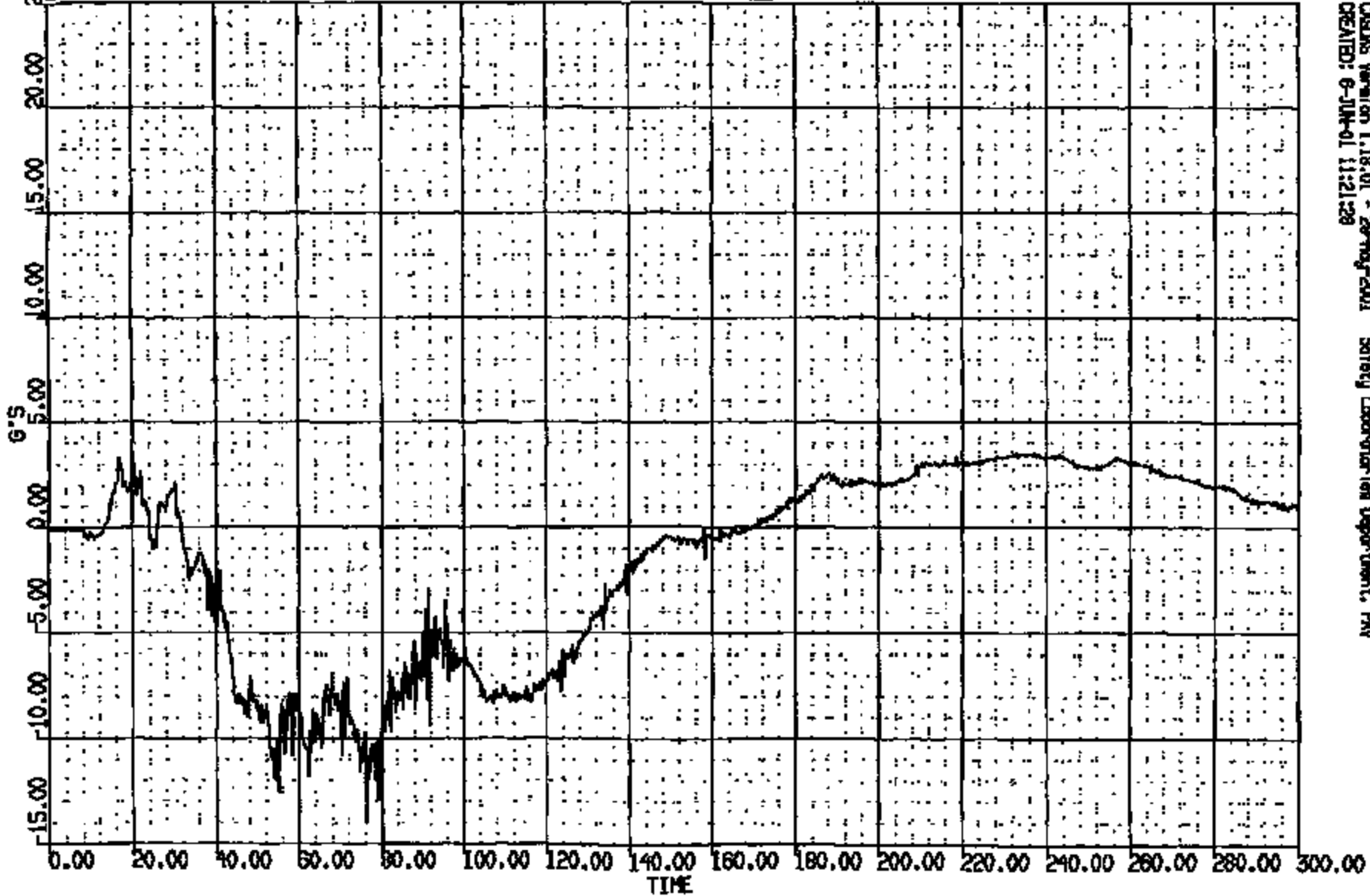


CASDS Version 1.18.01 - 29-May-2001 Safety Laboratories Department, PAW
CREATED: 6-JUN-01 11:17:09

CRIS 0012093

CR #: 12093 TO: TC1831 DATE: 001208 08:28:28
R000 D188

(33) CR12093T R/F DUMMY PELVIS HEAT 1000W
MAX = 3.554 at 20.16 MS MIN = -13.97 at 76.32 MS **AXIS 1**

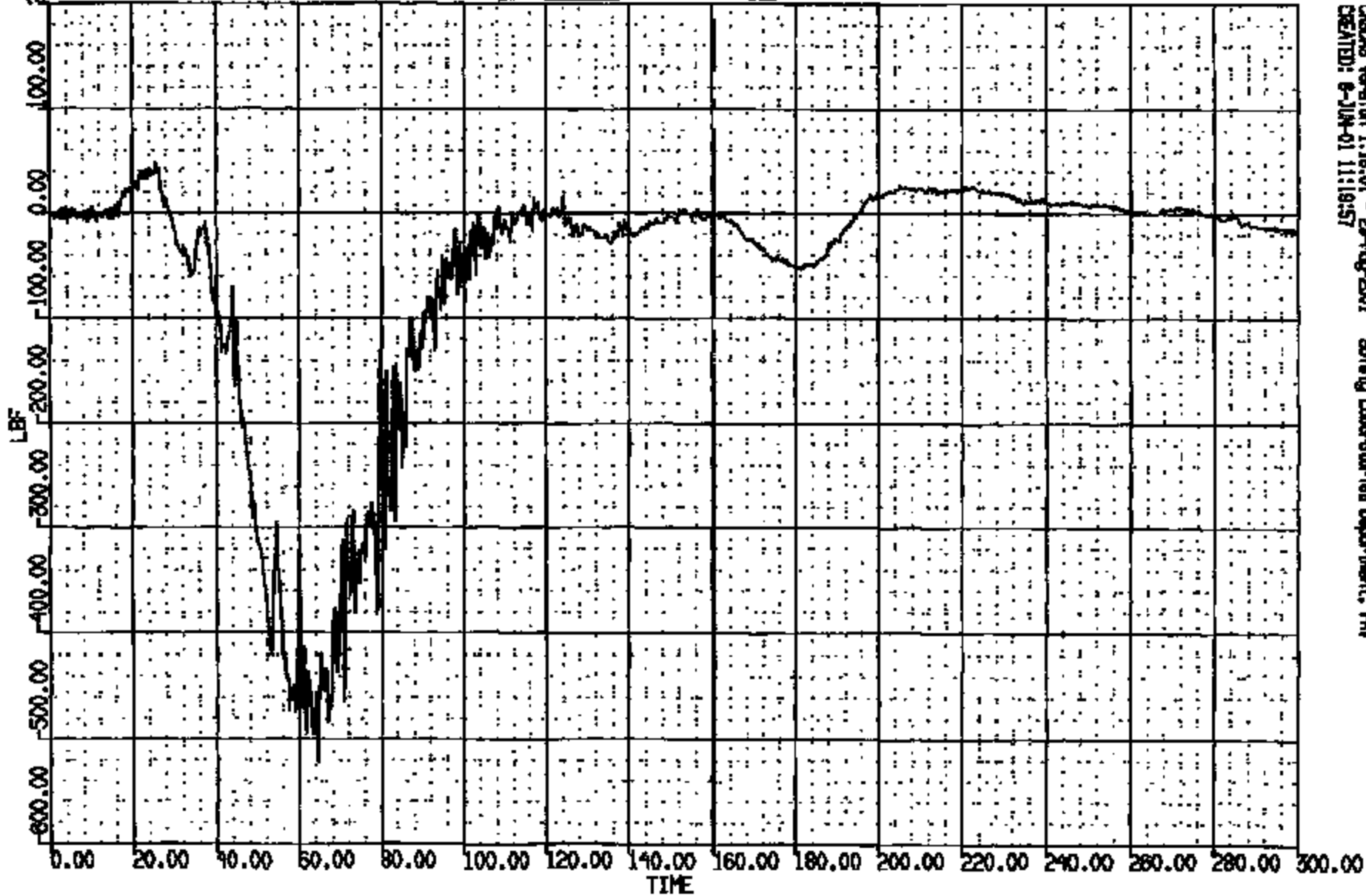


CRSIS Version 1.18.01 - 29-May-2001 Safety Laboratories Department, PAU
CREATED: 6-JUN-01 11:21:28

CRIS 0012093

CR R: 12093 TO: TC1851 DATE: 001206 09:29:25
2000 D188

(36) CR12093T R/F DUMMY R/FEMUR LOAD FZ 600N
MAX = 47.65 at 25.60 MS MIN = -521.6 at 64.56 MS **AXIS 1**

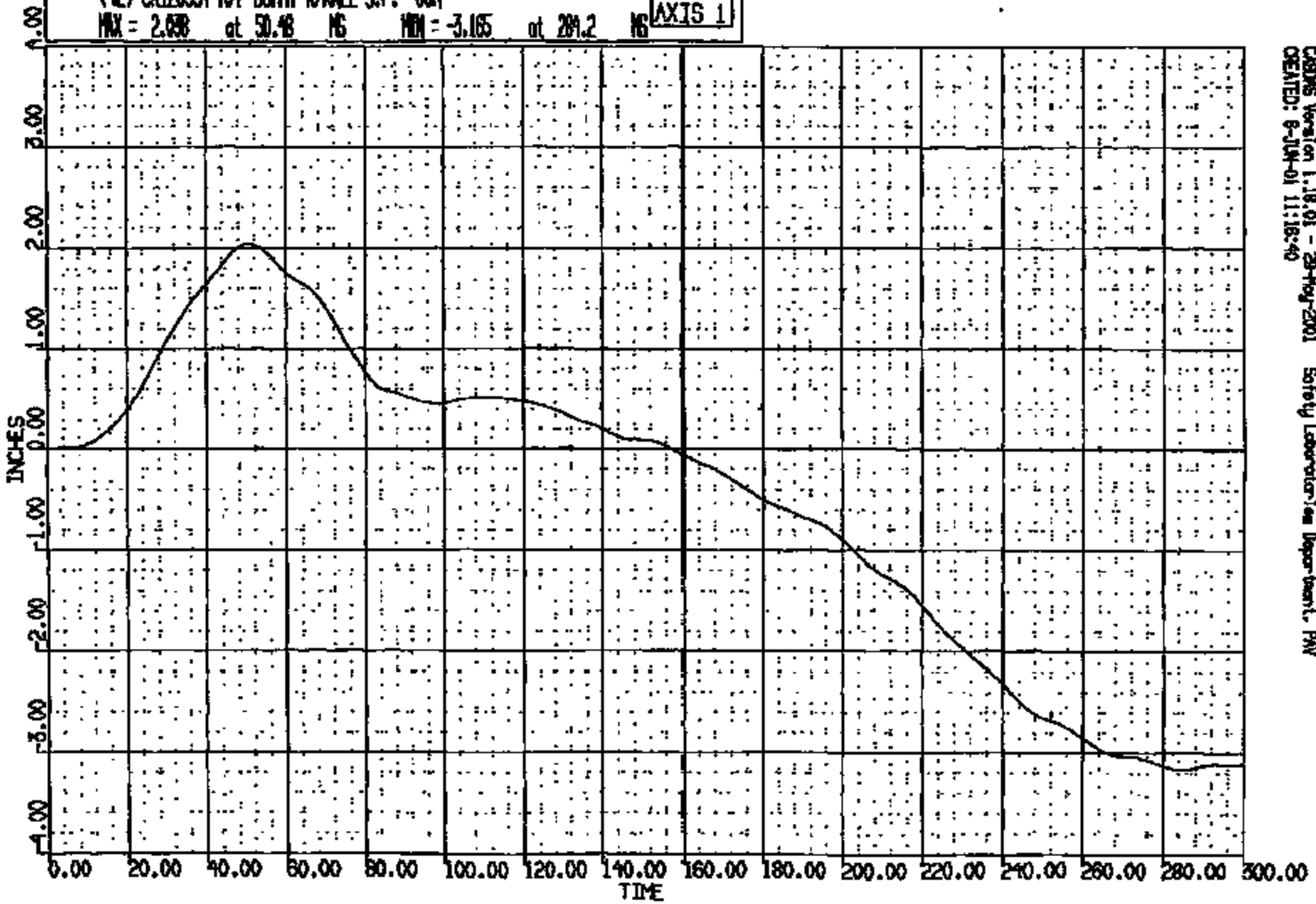


CARDAS Version 1.18.01 - 29-Aug-2001 Safety Laboratories Department, PHV
CREATED: 6-JUN-01 11:19:57

CRTS 0012093

CRK R: 12098 TO: 7C1851 DATE: 001206 09:26:25
2000 D188

(42) CR12098T R/F DUMMY R/DNEE S.P. 60N
MAX = 2.838 at 50.48 MS MIN = -3.165 at 284.2 MS **AXIS 1**



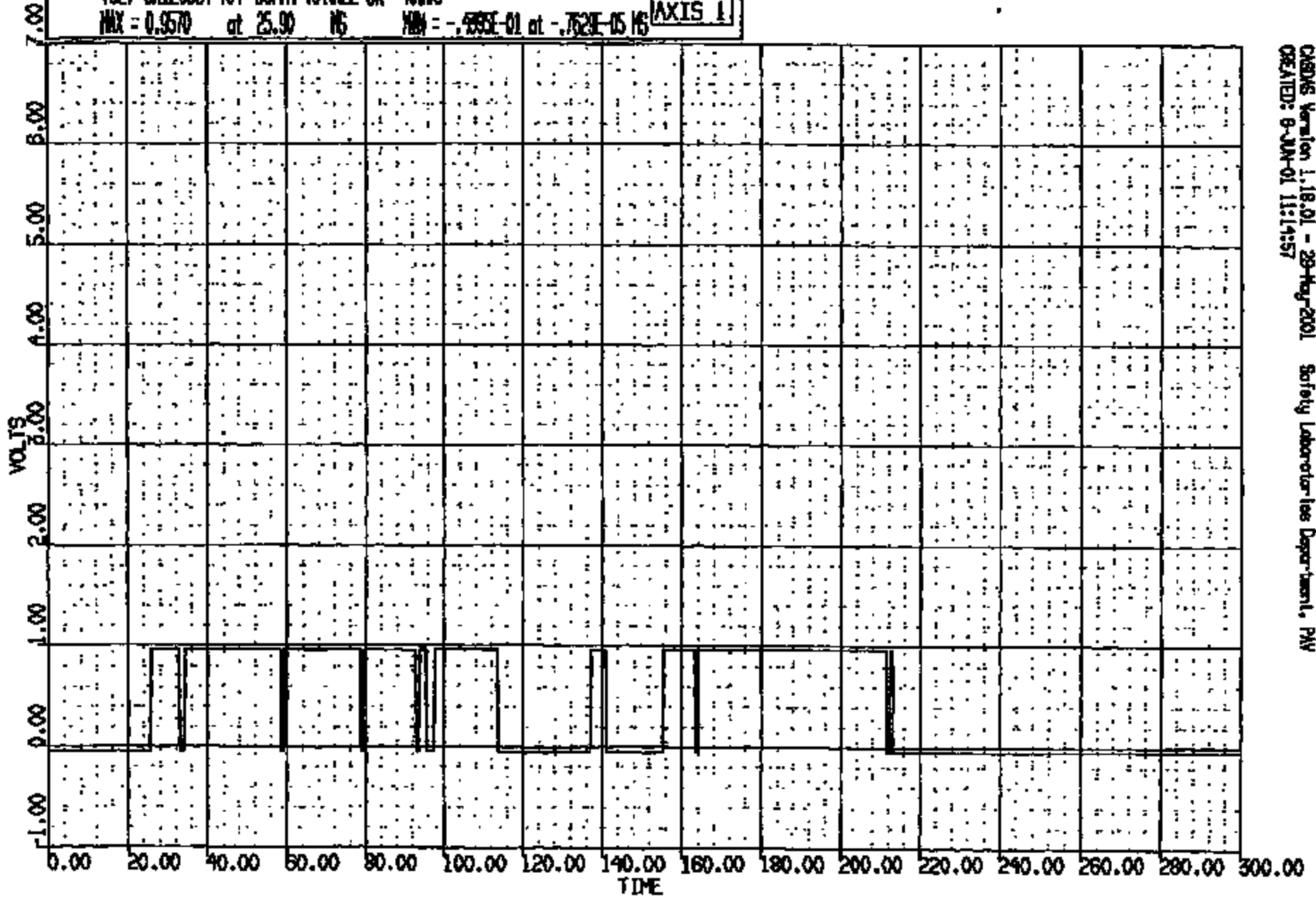
CADDS Version 1.18.01 - 29-May-2001 Safety Laboratories Department, PAW
CREATED: 6-JUN-01 11:16:40

CRTS 0012093

CR R: 12093 TO: TC1951 DATE: 001208 09:29:25
2000 D198

(52) CR12093T R/F DUMMY RANGE SH 4000C
MAX = 0.9570 at 25.90 MS MIN = -.595E-01 at -.752E-05 MS

AXIS 1

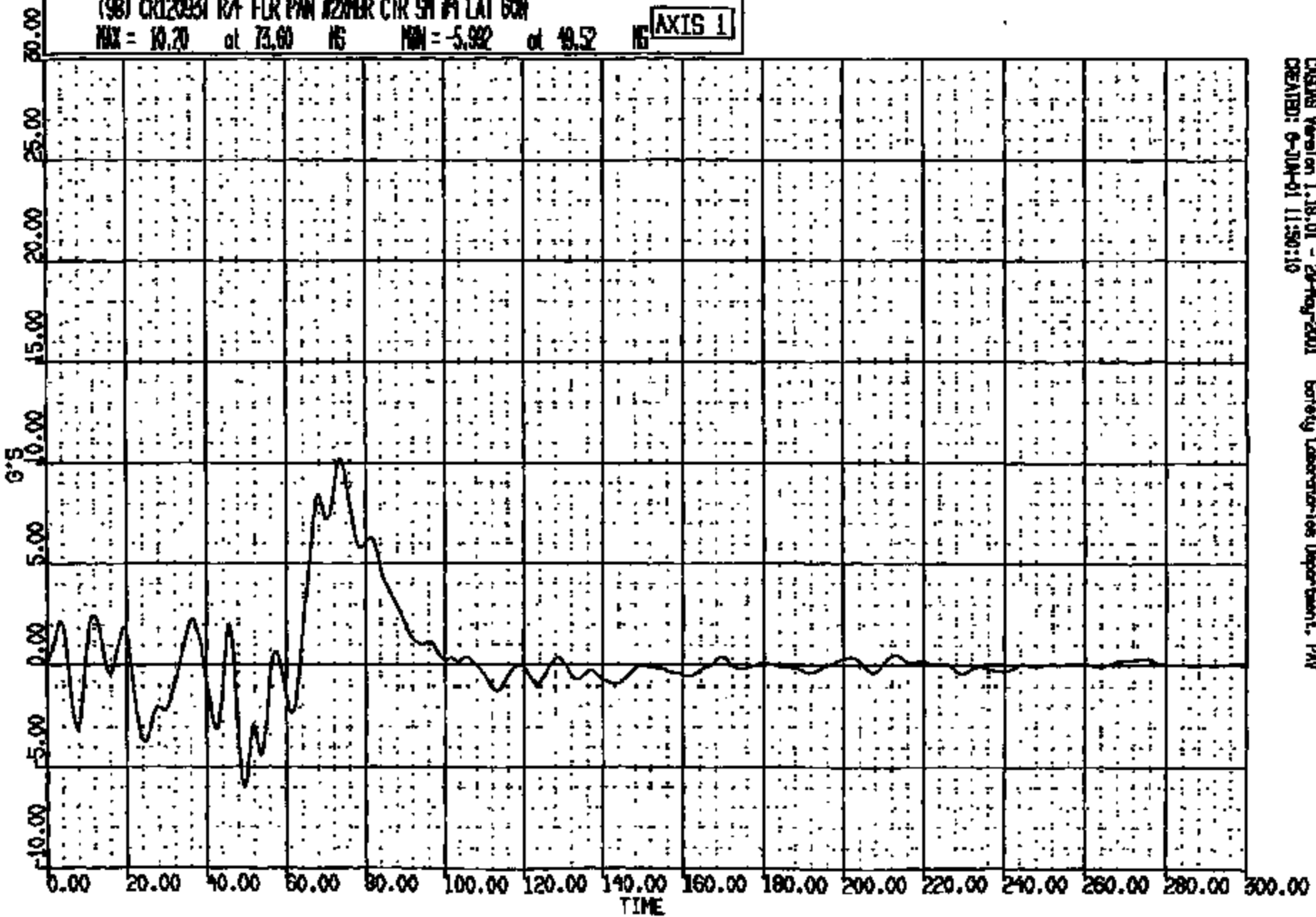


CRS Version 1.18.01 - 29-May-2001 Safety Laboratories Department, PAW
CREATED: 8-JUN-01 11:14:57

CRTS 0012093

NO. 12093 TO: TC1851 DATE: 001206 09:29:28
NO. 0189

(98) CR12093T R/F FLR PAN #2MER CTR SH #1 LAT 60H
MAX = 10.20 at 73.60 NS MIN = -5.992 at 49.52 NS **AXIS 1**

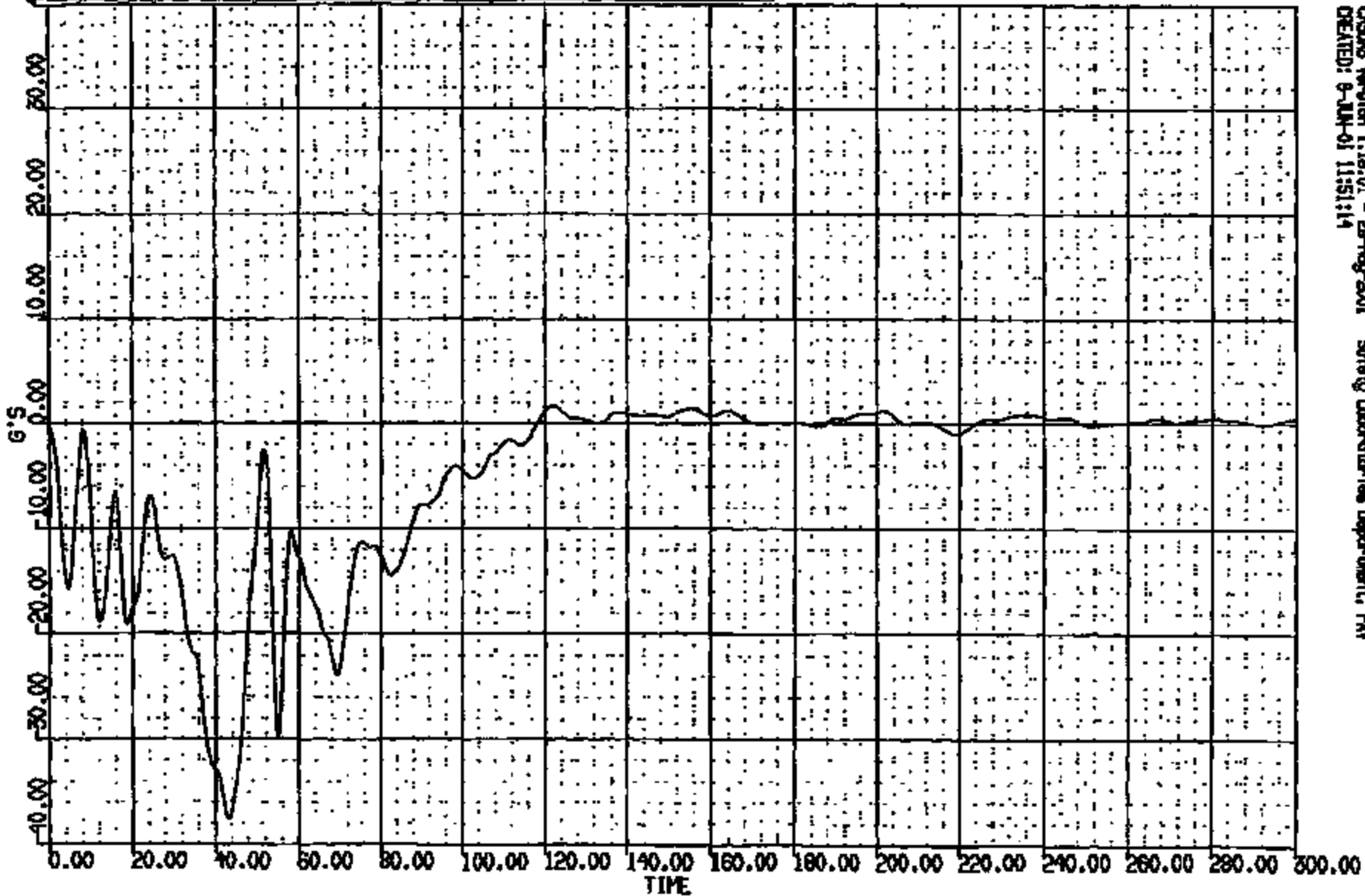


CASPER Version 1.18.01 - 29-May-2001 Safety Laboratories Department, PAW
CREATED: 6-JUN-01 11:50:10

CRIS 0012093

NO. R: 12093 TO: TC1851 DATE: 001206 09:29:25
NO00 D188

(96) CRA2093T R/F FLR PHN #24MR CTR SH #1 LONG 60N
MAX = 1.527 at 121.9 NS MIN = -37.56 at 43.28 NS **AXIS 1**

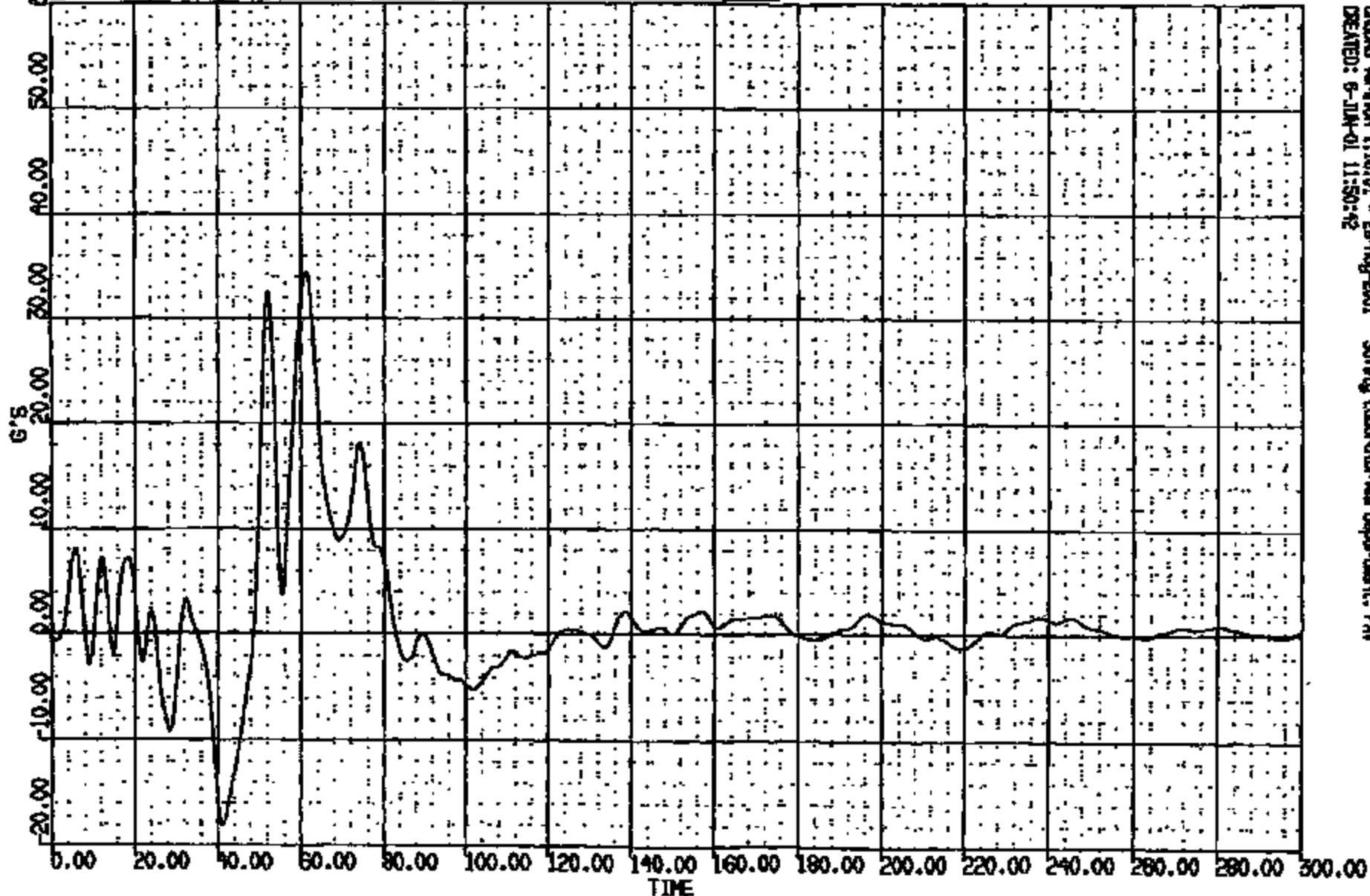


CYGN6 Version 1.18.01 - 29-May-2001 Safety Laboratories Department, PAW
CREATED: 9-JUN-01 11:51:14

CRTS 0012093

CR R: 12093 TO: TC1851 DATE: 001206 09:29:25
2000 D189

(97) DR120931 R/F FLR PAN #2XNR CTR SH #4 VERT 60N
MAX = 31.44 at 61.20 NS MIN = -18.24 at 41.20 NS **AXIS 1**



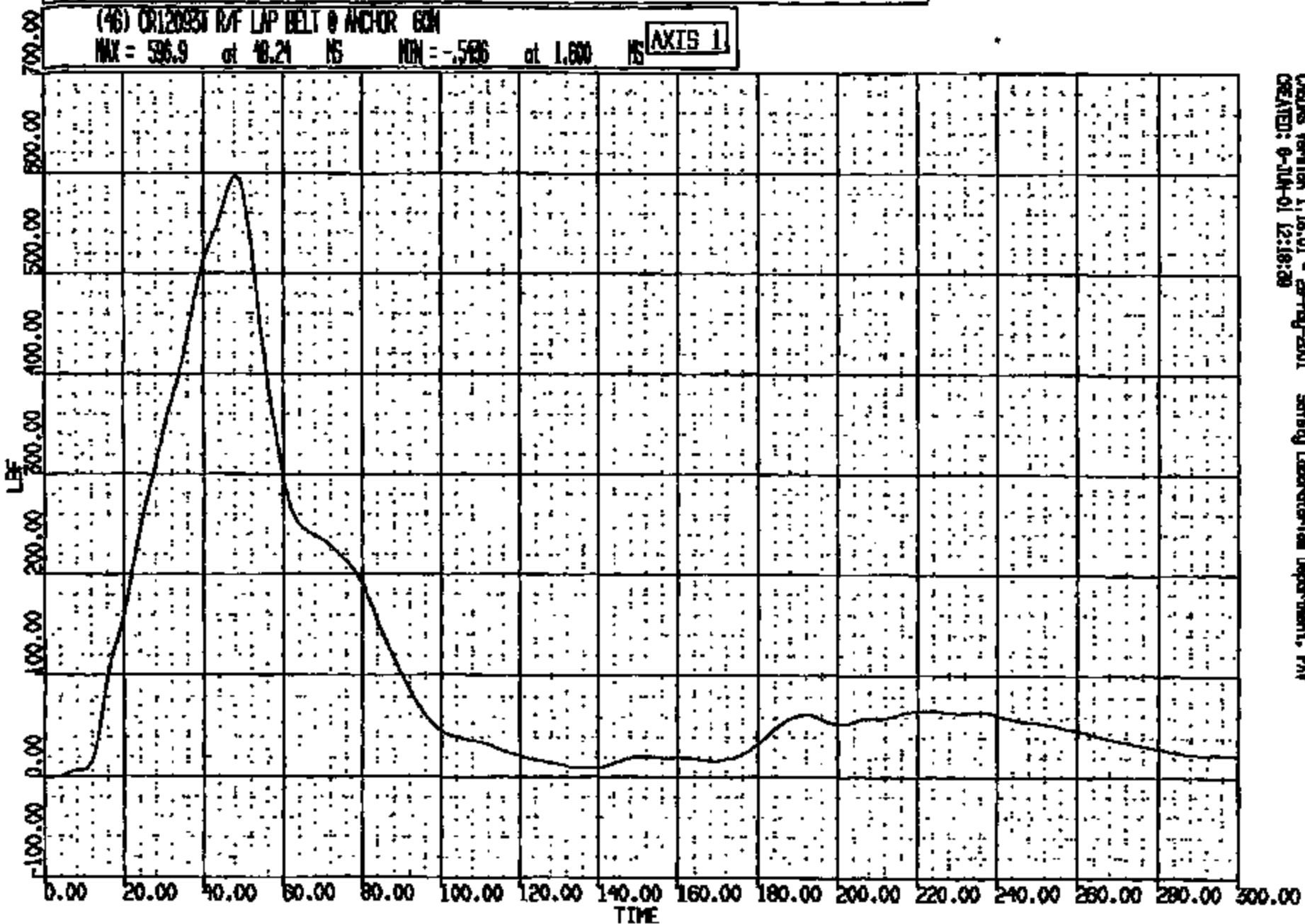
CASINS Version 1.18.01 - 29-May-2001 Safety Laboratories Department, PNW
CREATED: 6-JUN-01 11:50:42

CRTS 0012093

CR: 12093 TO: TC1831 DATE: 001206 08:29:28
R000 D180

(46) CR120931 R/F LAP BELT @ ANCHOR 63M

MAX = 536.9 at 48.21 NS MIN = -586 at 1.600 NS **AXIS 1**



CASDAS Version 1.18.01 - 29-May-2001 Safety Laboratories Department, PAW
CREATED: 9-JUN-01 12:18:30

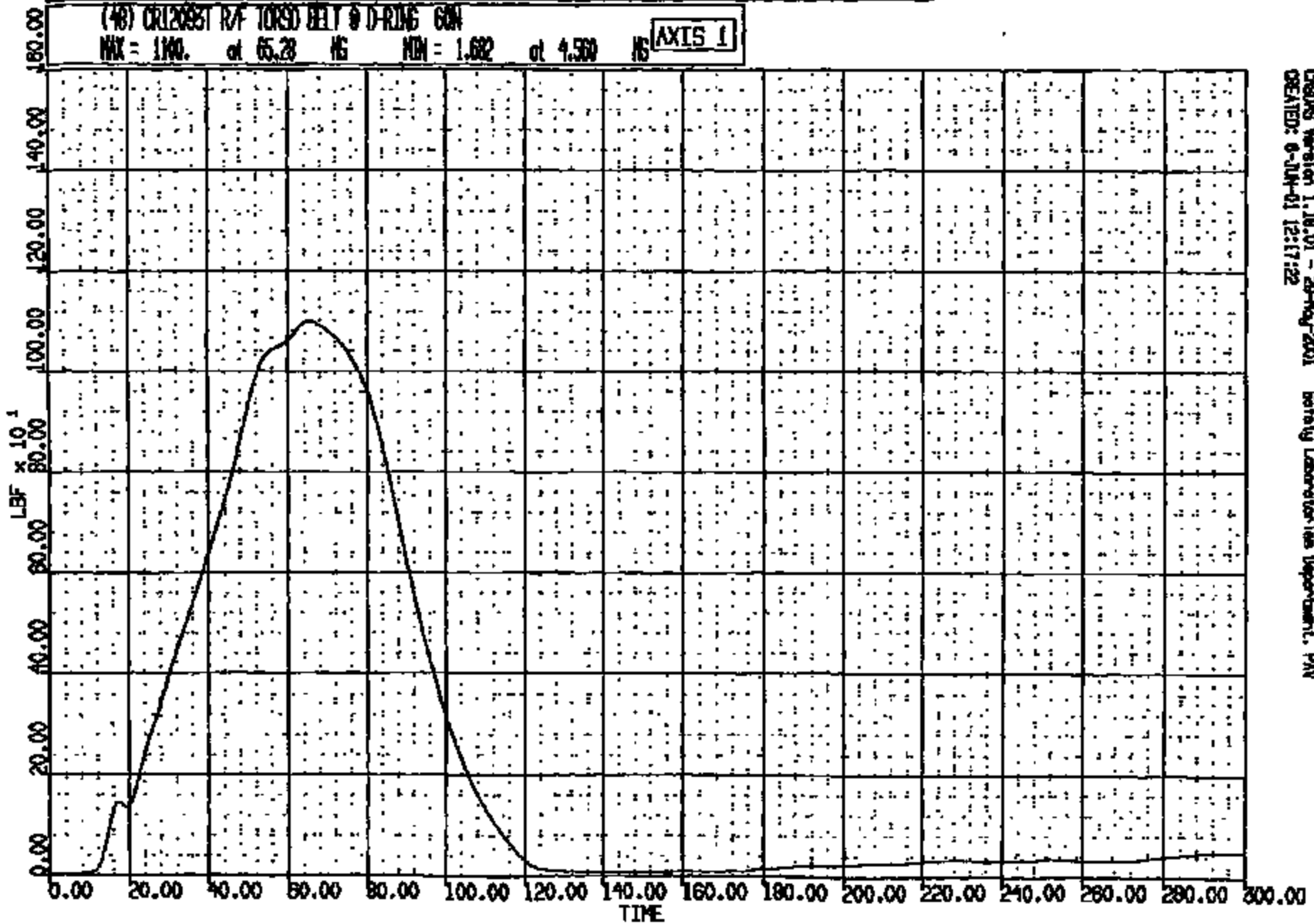
CRTS 0012093

CR R: 12093 TD: TC1931 DATE: 001208 09:29:25
2000 D198

(48) CR120931 R/F TORSO BELT @ D-RING 60N

MAX = 110. at 65.28 HS MIN = 1.682 at 4.500 HS

AXIS 1



CRS Version 1.18.01 - 29-Aug-2001 Safety Laboratories Department, PNW
CREATED: 8-JUN-01 12:17:22

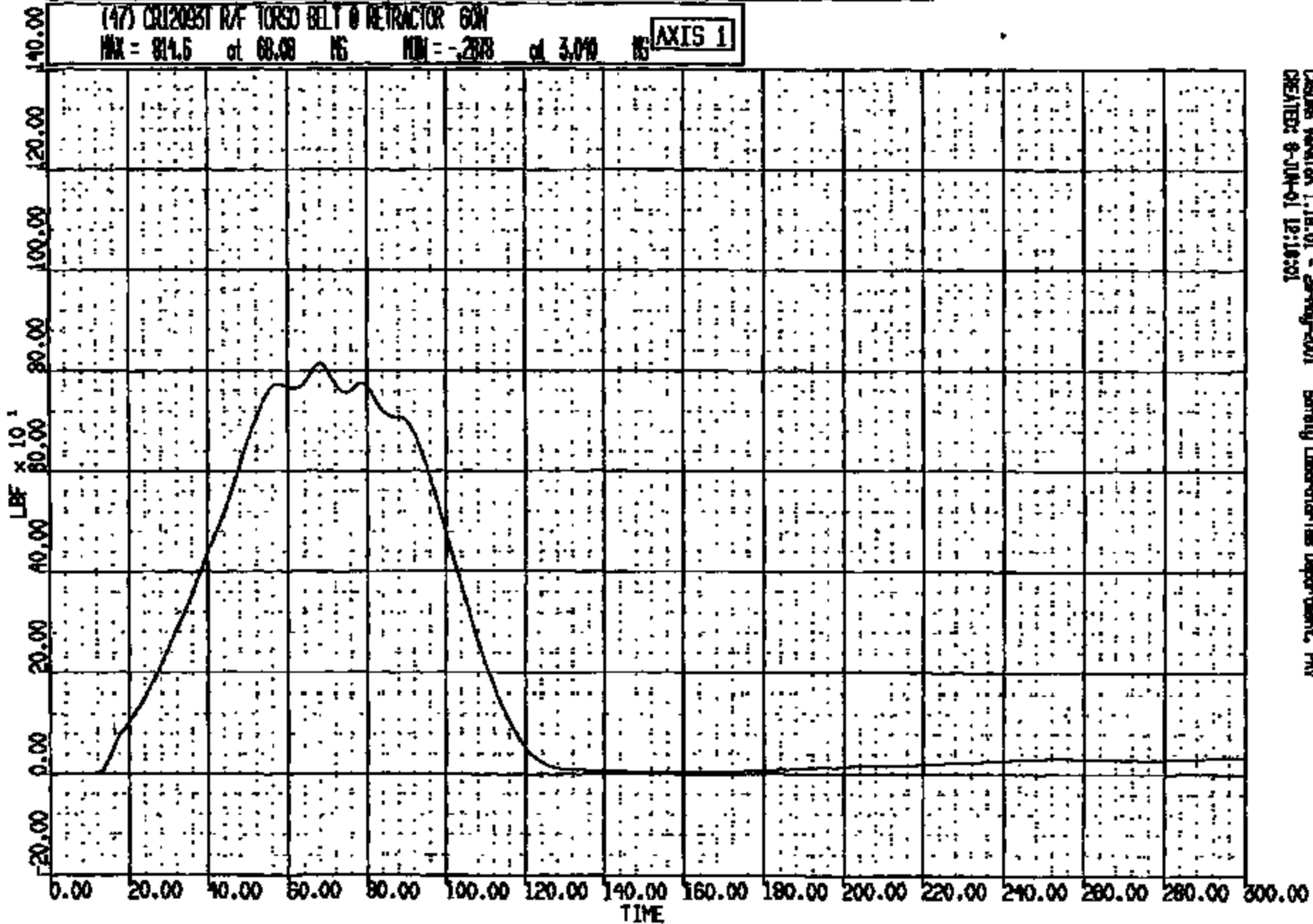
CRIS 0012093

CR R: 12093 TD: TC1851 DATE: 001206 09:29:28
R000 D188

(47) CR120931 R/F TORSO BELT & RETRACTOR G0N

MAX = 814.6 at 68.00 MS MIN = -288 at 3.000 MS

AXIS 1



CASPER Version 1.19.01 - 29-May-2001 Safety Laboratories Department, PAU
CREATED: 9-JUN-01 12:18:01

CRIS 0012093

CR: R: 12093 TD: TC1851 DATE: 001206 08:29:25
2000 D188

(113) CR12093T R/ROCKER @ A-PILLAR LAT 60W
MAX = 19.44 at 44.48 NS MIN = -26.61 at 53.52 NS **AXIS 1**



CASYS Version 1.18.01 - 29-May-2001 Safety Laboratories Department, PHV
CREATED: 6-JUN-01 11:42:19

CRIS 0012093

CR #: 12093 TO: TC1681 DATE: 001806 09:28:25
8000 D188

(111) CR12093T W/RUCKER @ A-PILLAR LONG 60N
MAX = 2.439 at 120.0 MS MIN = -28.00 at 38.96 MS **AXIS 1**

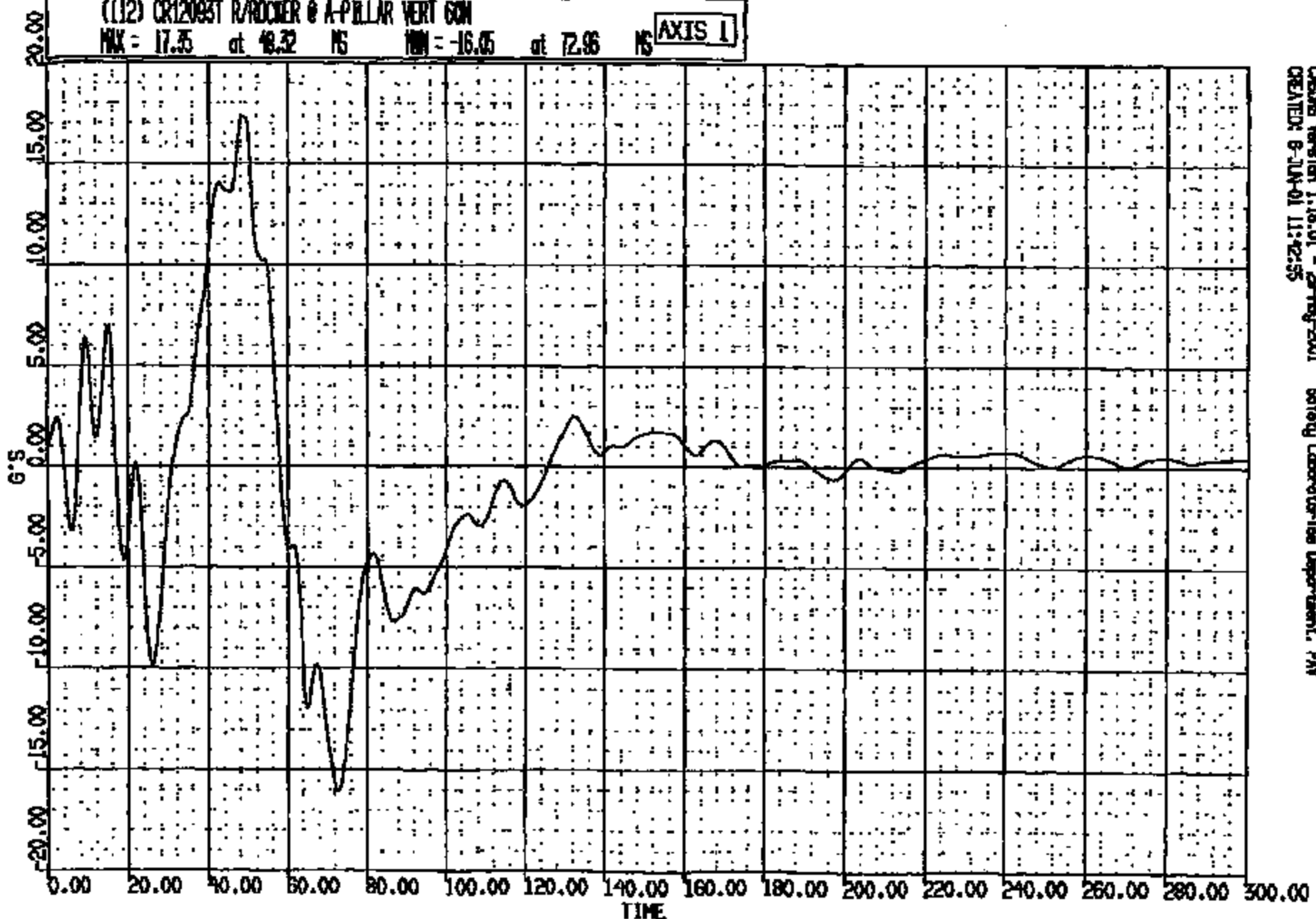


CASIMS Version 1.18.01 - 29-May-2001 Safety Laboratory Department, PNY
CREATED: 8-JUN-01 11:48:27

CRTS 0012093

CHK R: 12093 TO: TC1951 DATE: 001204 09:29:25
2000 DISC

(112) CR12093T R/ROCKER @ A-PILLAR VERT GON
MAX = 17.35 at 49.32 NS MIN = -16.05 at 72.96 NS **AXIS 1**

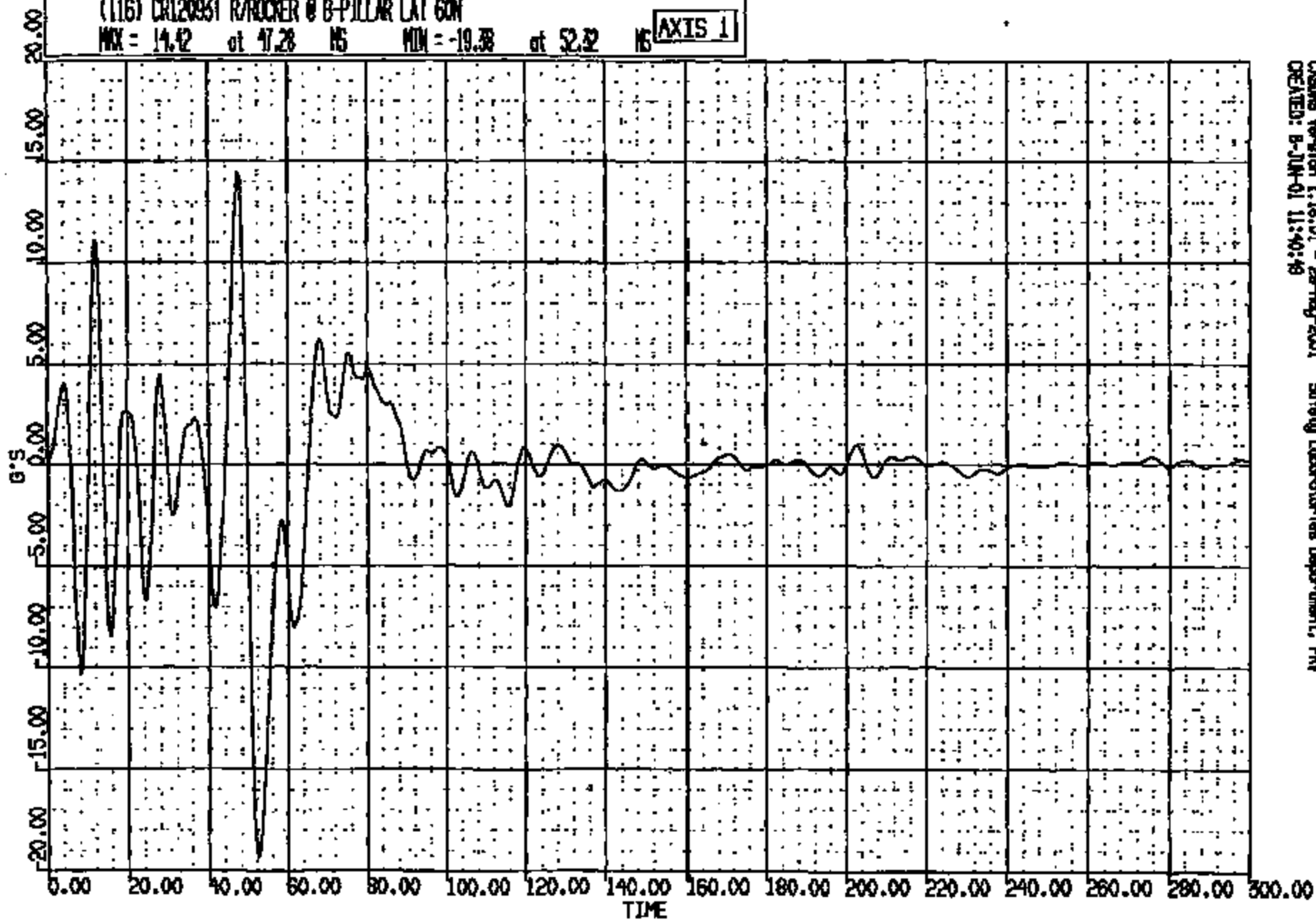


CRS Version 1.18.01 - 29-Aug-2001 Safety Laboratory-les Department, PAN
CREATED: 6-JUN-01 11:42:55

CRIS 0012093

CR R: 12093 TO: TC1851 DATE: 001208 09:29:25
2000 D186

(116) CR120931 R/ROCKER @ B-PILLAR LAT 60N
MAX = 14.42 at 47.28 NS MIN = -19.38 at 52.42 NS **AXIS 1**



CASMS Version 1.18.01 - 29-May-2001 Safety Laboratories Department, PNW
CREATED: 8-JUN-01 11:40:49

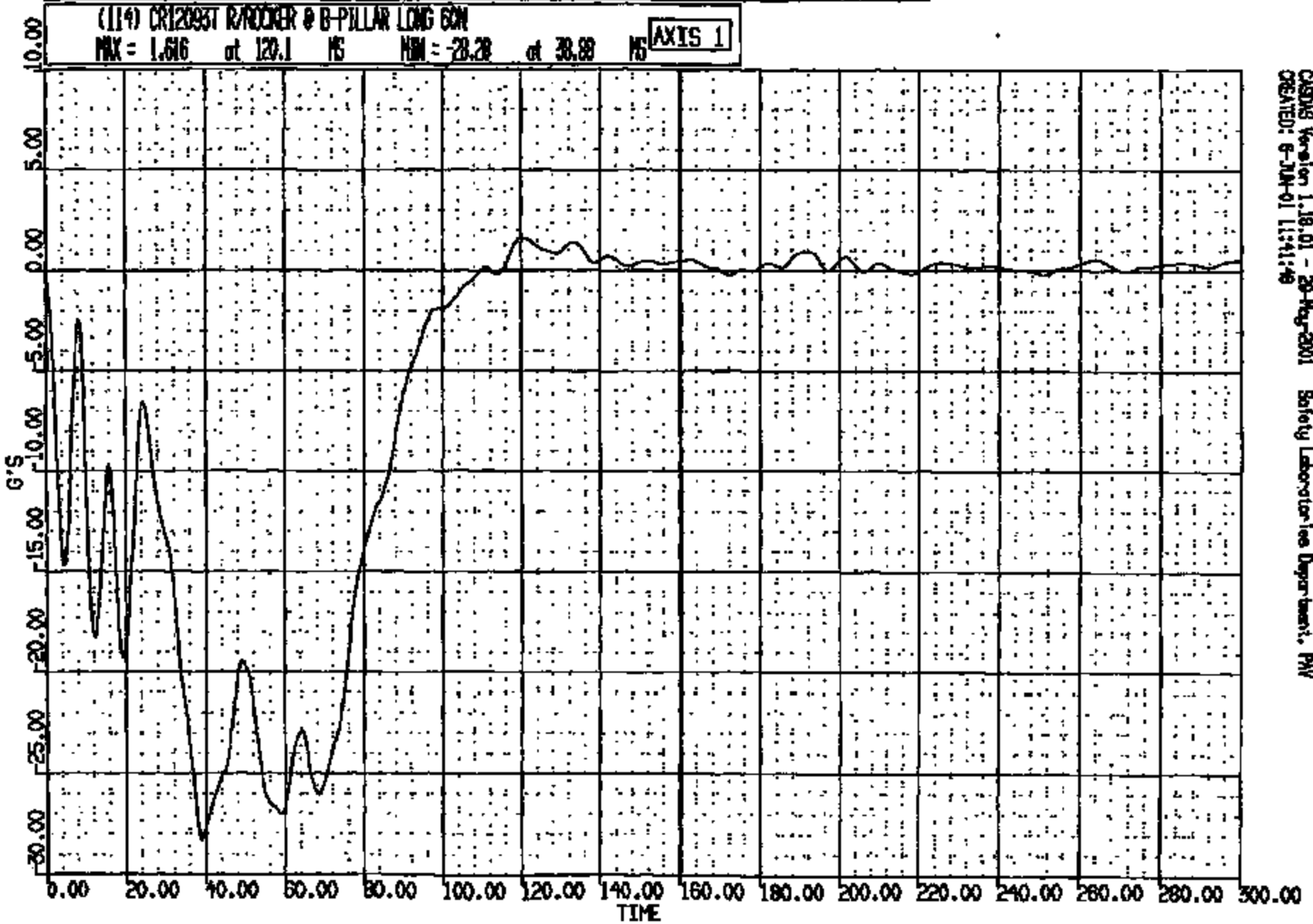
CRTS 0012093

CR: R: 12093 TC: TC1831 DATE: 001204 09:29:25
2000 D186

(114) CR12093T R/ROCKER @ B-PILLAR LONG CON

MAX = 1.616 at 120.1 MS MIN = -28.28 at 38.88 MS

AXIS 1

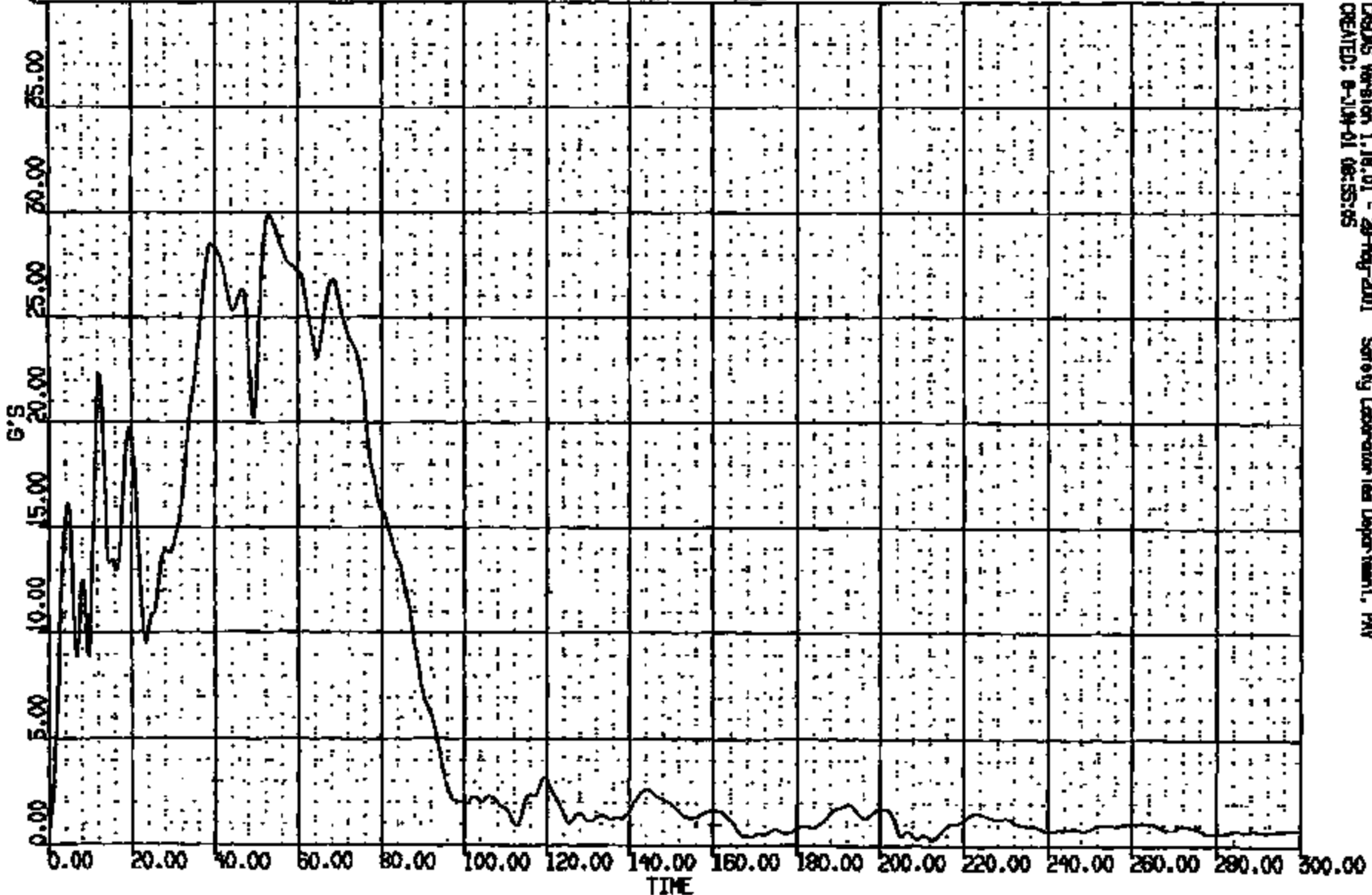


CASINO Version 1.18.01 - 29-May-2001 Safety Laboratories Department, PHV
CREATED: 6-JUN-01 11:41:48

CRTS 0012093

CR R: 12093 TO: TC1881 DATE: 001206 09:28:25
2000 0199

(10015) CR12093T R/ROCKER @ B-PILLAR RES CON
MAX = 29.85 at 52.96 NS MIN = 0.2961 at 212.8 NS **AXIS 1**

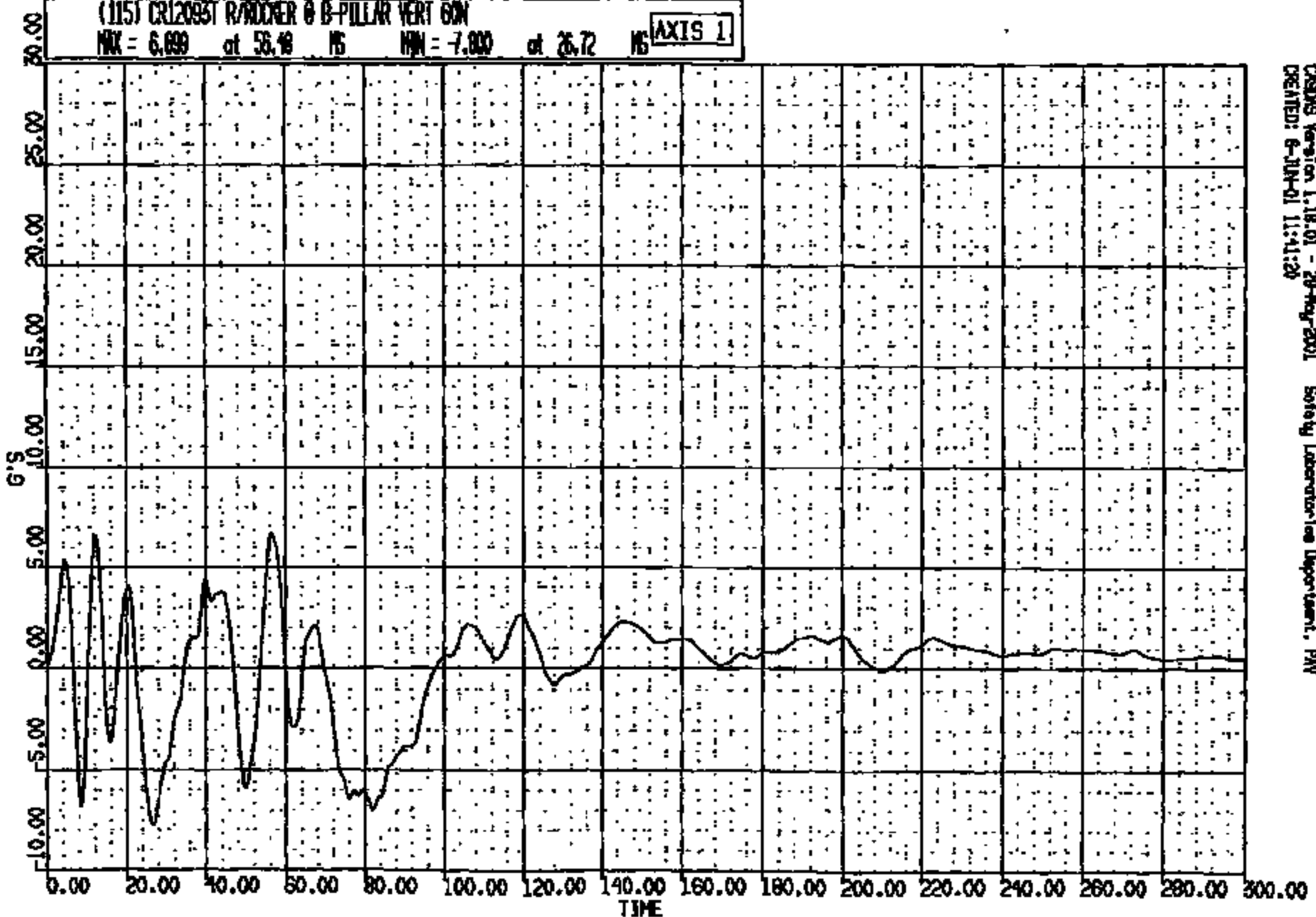


CRTS Version 1.18.01 - 29-Aug-2001 Safety Laboratory Department, PHV
CREATED: 8-21-01 08:55:55

CRTS 0012093

CR R: 12095 TO: TC1851 DATE: 001208 08:28:25
2000 D188

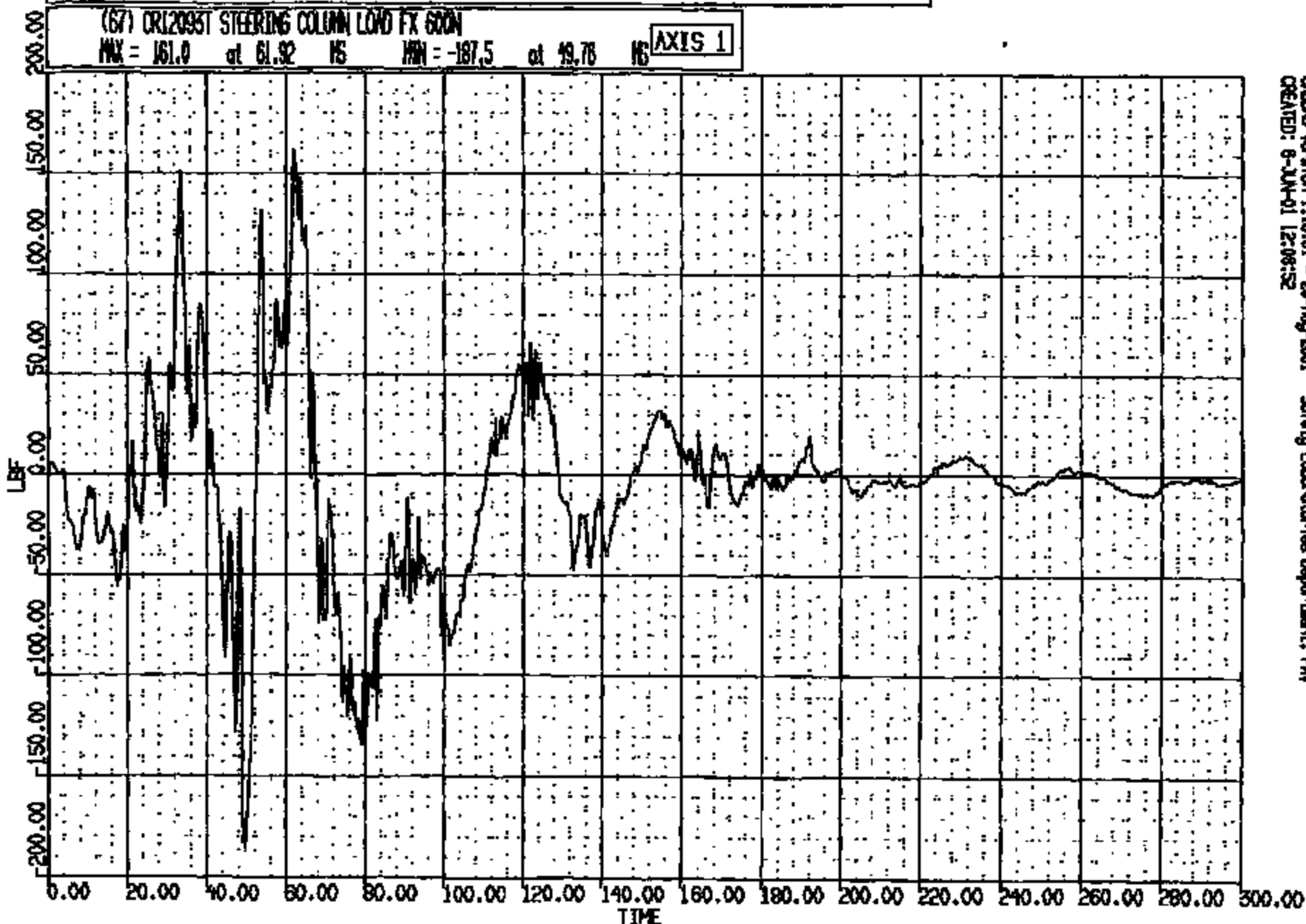
(115) CR12095T R/RIDER @ B-PILLAR VERT 60N
MAX = 6.699 at 58.48 MS MIN = -7.800 at 26.72 MS **AXIS 1**



CRS01S Version 1.18.01 - 28-Aug-2001 Safety Laboratories Department, PAN
CREATED: 6-JUN-01 11:41:28

CRIS 0012093

CR R: 12093 TO: TC1851 DATE: 001208 09:28:25
2000 D198

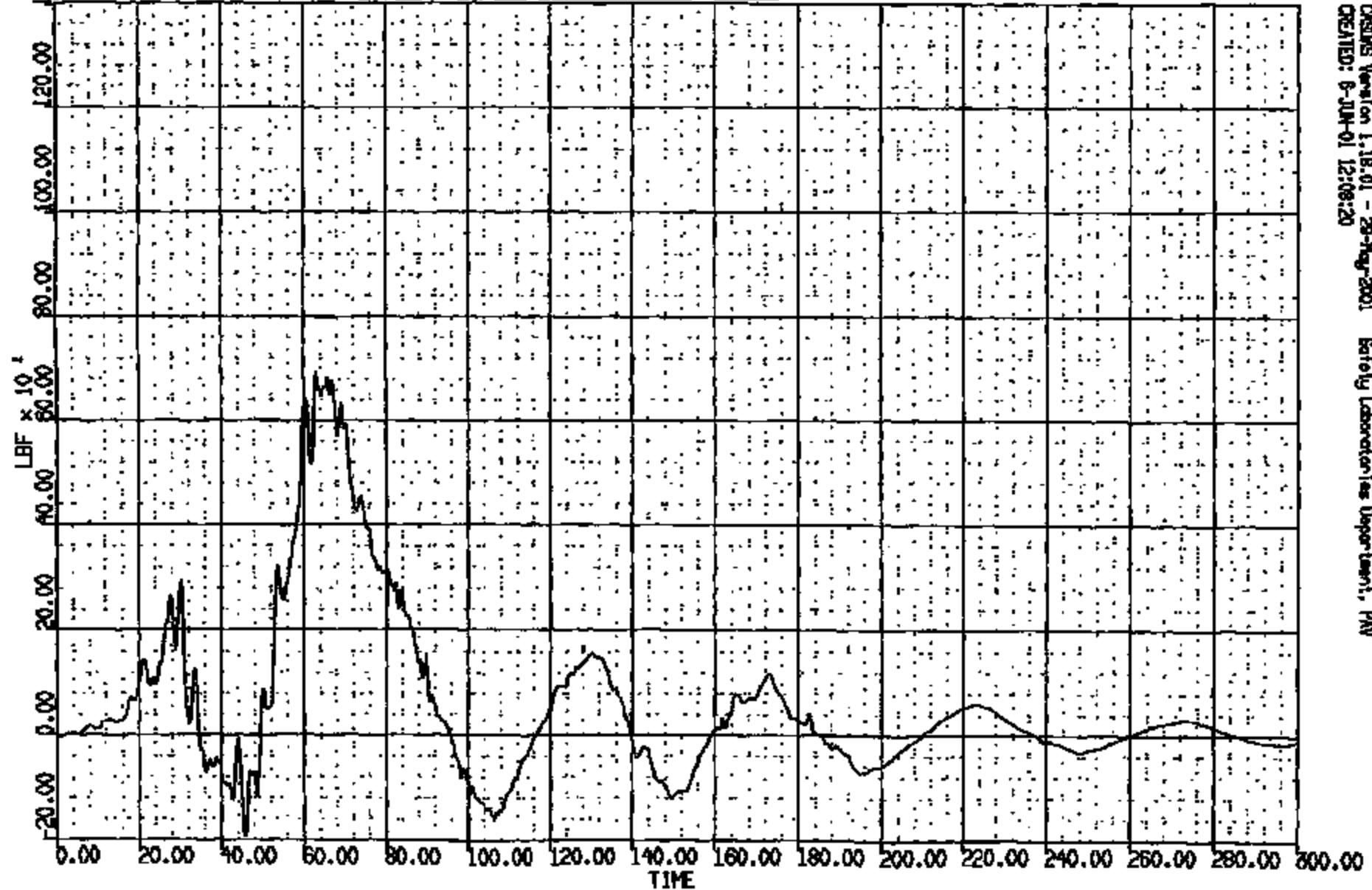


CRS05 Version 1.18.01 - 29-May-2001 Safety Laboratories Department, PAW
CREATED: 8-JUN-01 12:08:52

CRIS 0012093

CR # = 12093 TO: TC1831 DATE: 001208 JS:23:25
2000 D188

(88) CR12093T STEERING COLUMN LOAD FY 600N
MAX = 890.9 at 62.96 MS MIN = -195.0 at 15.68 MS **AXIS 1**

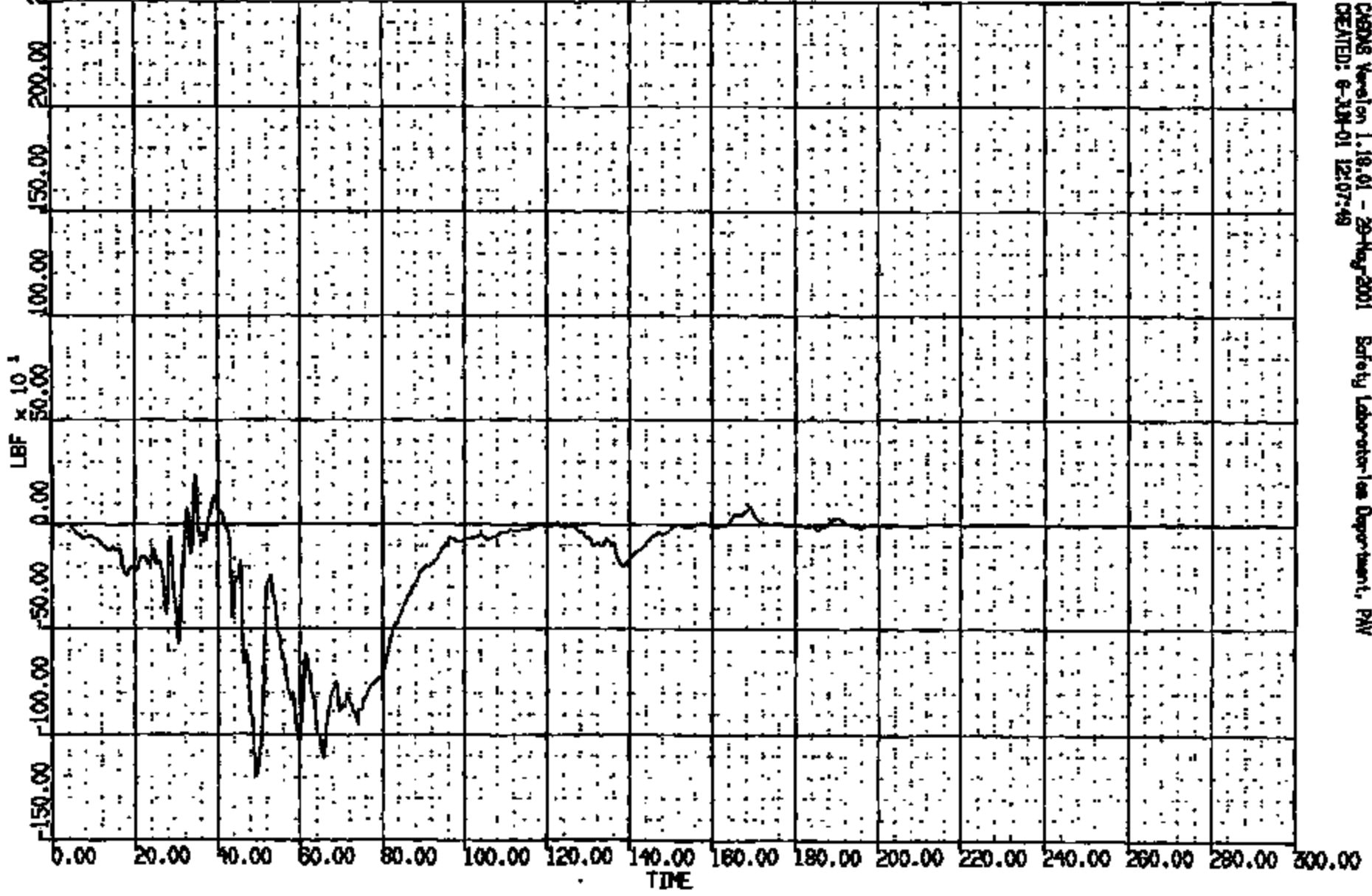


CRSIS Version 1.18.01 - 29-May-2001 Safety Laboratories Department, PAW
CREATED: 6-JUN-01 12:08:20

CRIS 0012093

NO: 12095 TO: TC1851 DATE: 001208 09:28:25
NO: 0188

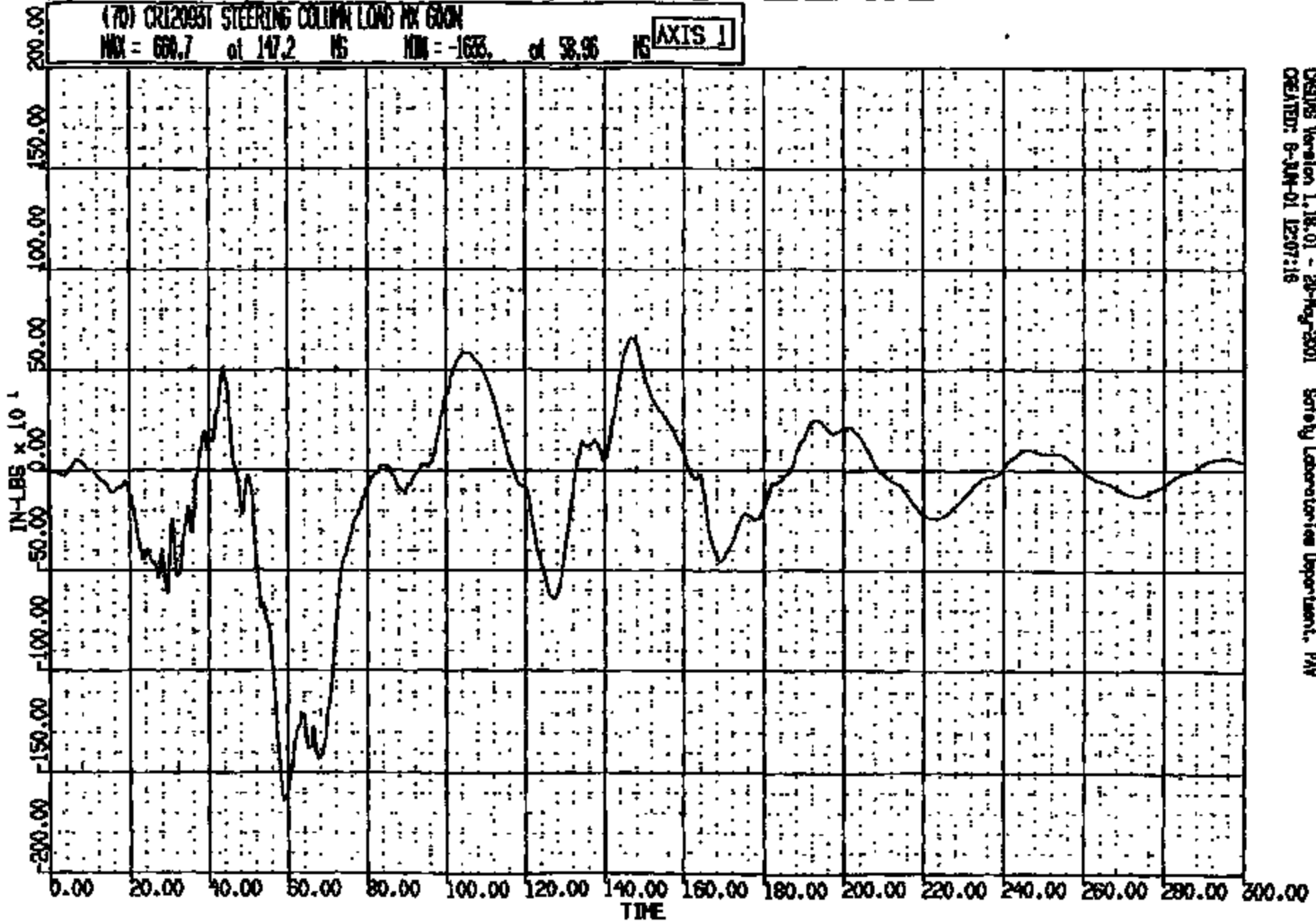
(69) CR12093T STEERING COLUMN LOAD FZ 600M
MAX = 252.3 at 34.56 MS MIN = -119.9 at 49.44 MS **AXIS 1**



CRS08 Version 1.18.01 - 29-May-2001 Safety Laboratory Inc Department, PNW
CREATED: 8-JUN-01 12:07:49

CR R: 12093 TO: TC1851 DATE: 001208 09:29:25
2000 0198

(70) CR120931 STEERING COLUMN LOAD PK GCON
MAX = 669.7 at 147.2 MS MIN = -1638. at 58.96 MS **AXIS J**

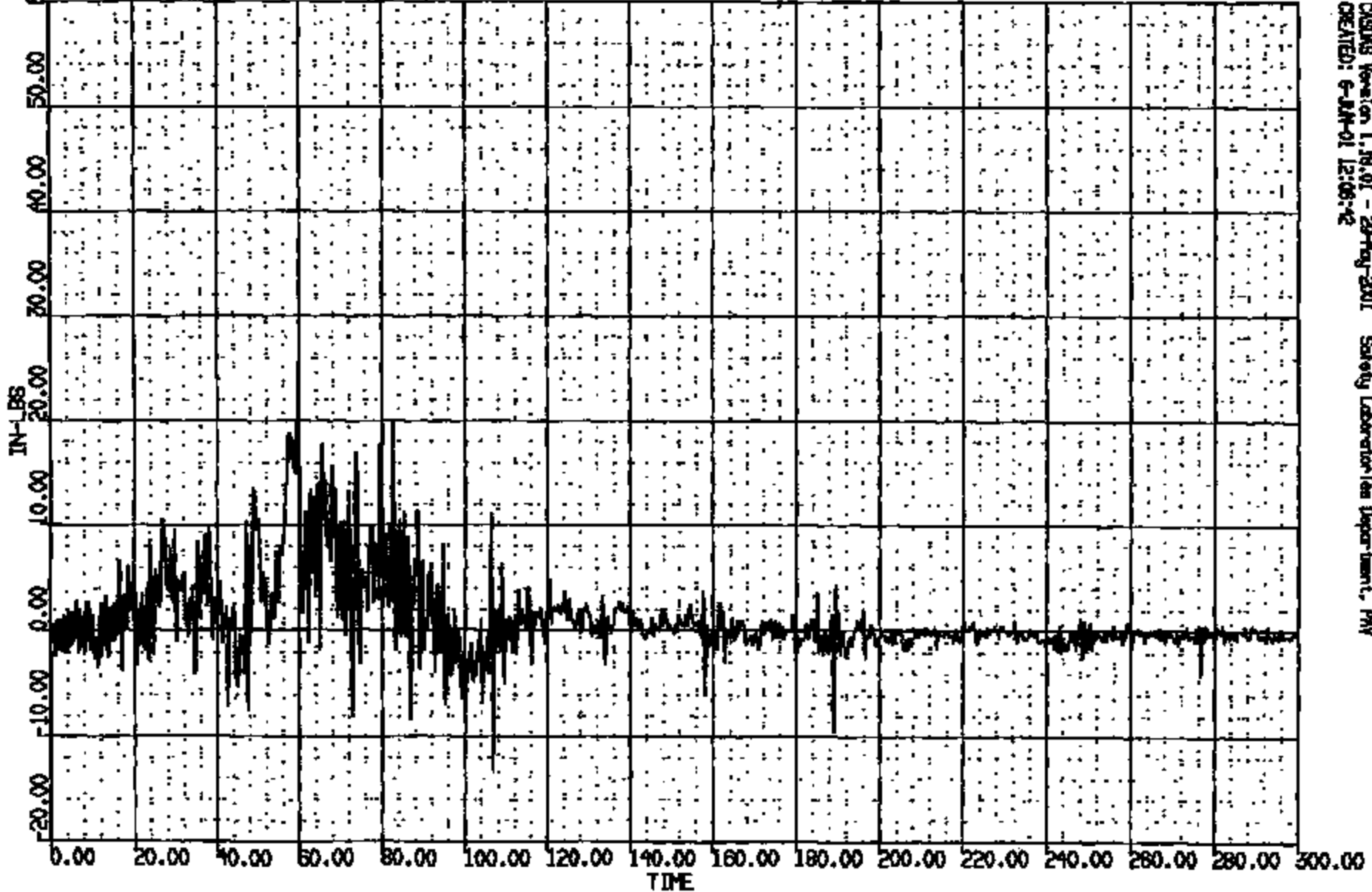


CRS/VS Version 1.18.01 - 20-May-2001 Safety Laboratories Department, PAW
CREATED: 8-JUN-01 12:07:16

CRIS 0012093

CR #: 12093 TO: TC1881 DATE: 001206 JB:26125
2000 0188

(71) CR12093T STEERING COLUMN LOAD BY 600N
MAX = 25.51 at 59.76 MS MIN = -13.33 at 106.8 MS **AXIS 1**



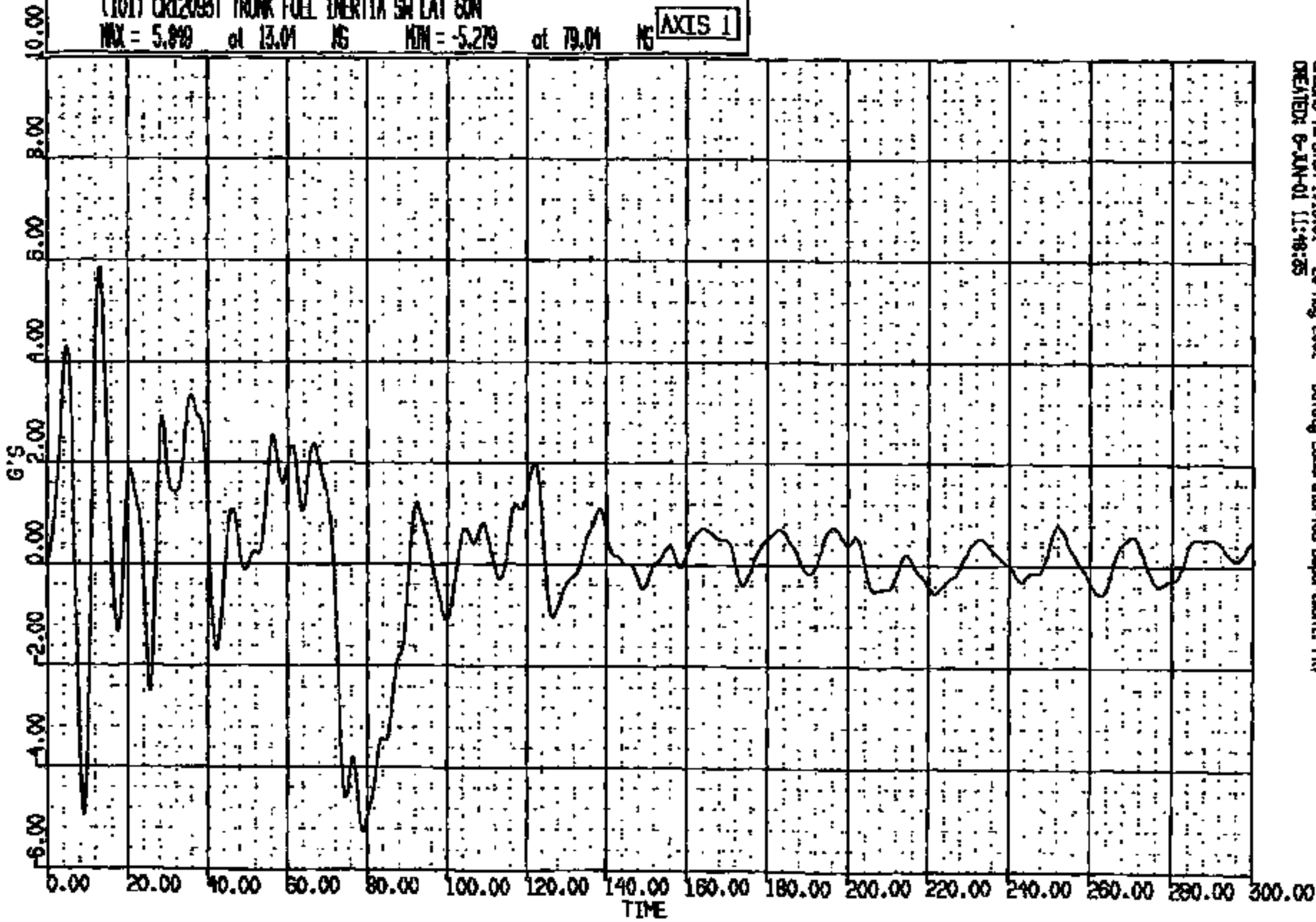
CRS018 Version 1.18.01 - 29-May-2001 Safety Laboratories Department, PNY
CREATED: 6-JUN-01 12:08:42

CRTS 0012093

DR R: 12093 TO: TC1881 DATE: 001208 09:28:25
2000 D188

(101) CR12093T TRUNK FUEL INERTIA SW LAT 80N
MAX = 5.849 at 13.01 MS MIN = -5.279 at 79.01 MS

AXIS 1

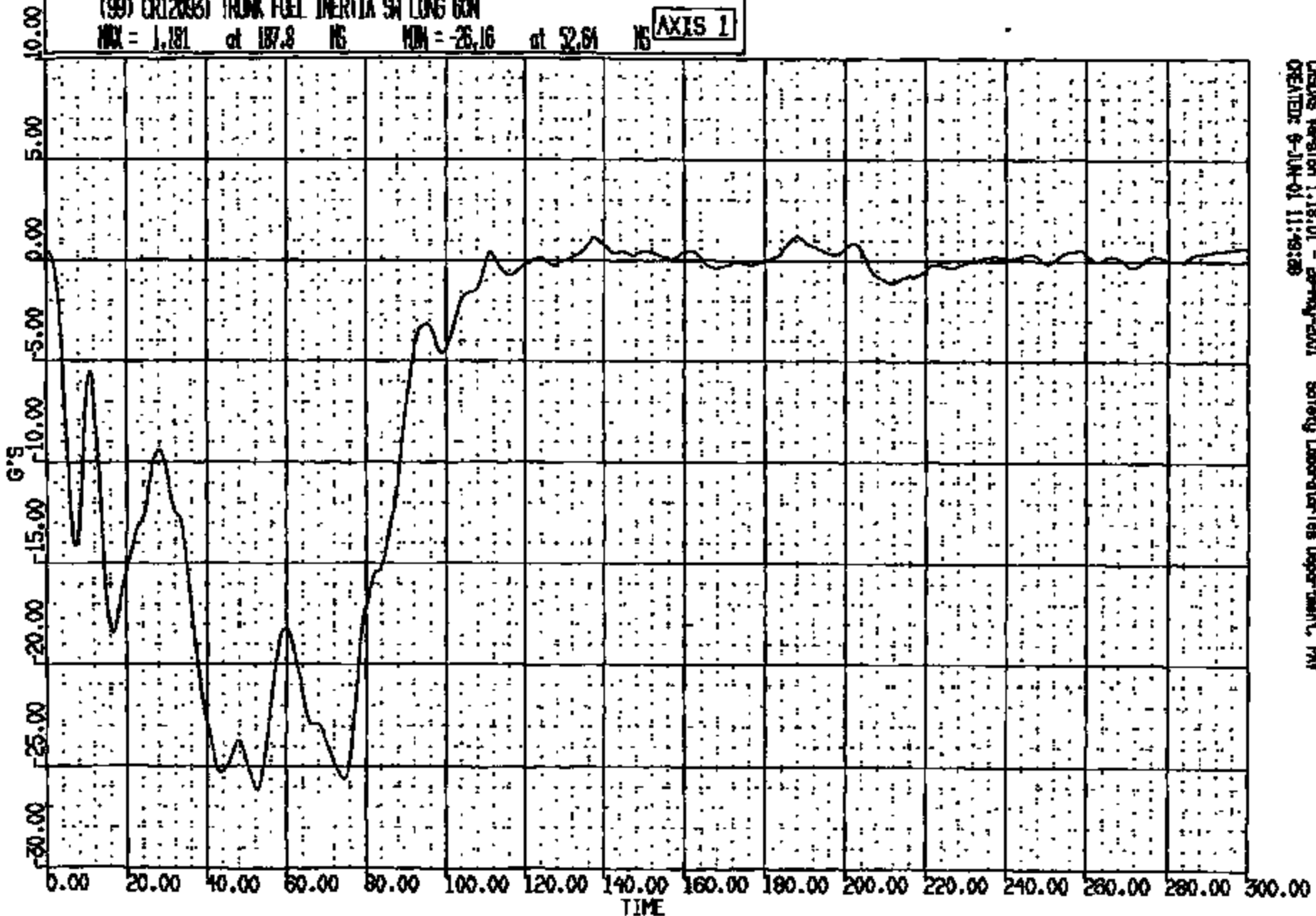


CRSUS Version 1.18.01 - 28-May-2001 Safety Laboratories Department, PAW
CREATED: 6-JAN-01 11:48:35

CRTS 0012093

CR #: 12095 TO: TC1931 DATE: 00:28:25
2000 D188

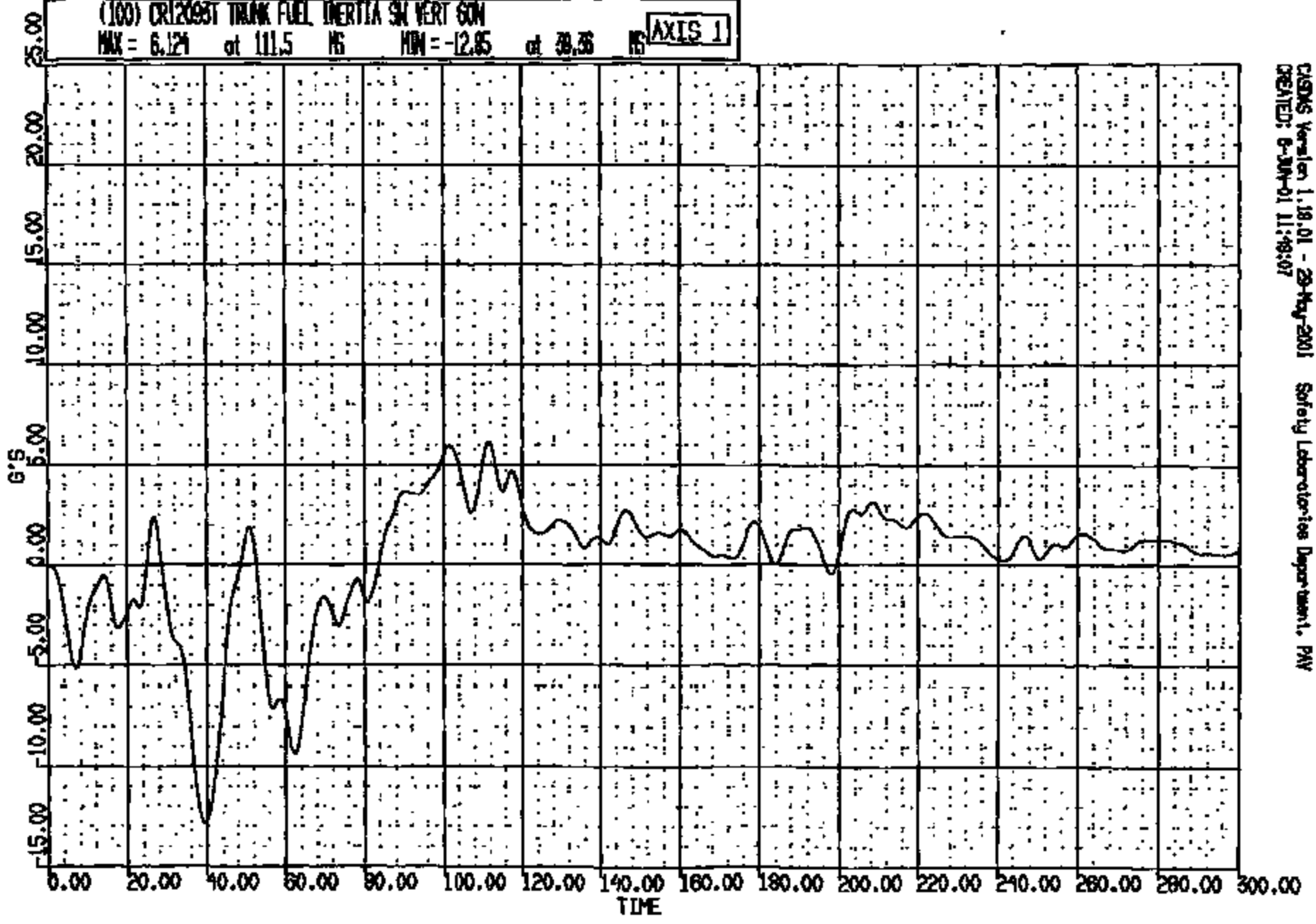
(99) CRT20031 TRUNK FUEL INERTIA SA LONG 60M
MAX = 1.181 at 187.8 MS MIN = -26.16 at 52.64 MS **AXIS 1**



CASDS Version 1.18.01 - 29-May-2001 Safety Laboratories Department, PNY
CREATED: 6-JUN-01 11:49:28

CR R: 12093 TO: TC1884 DATE: 001206 06:29:25
R000 D188

(100) CR12093T TRUNK FUEL INERTIA SN VERT 60W
MAX = 6.124 at 111.5 MS MIN = -12.85 at 39.36 MS **AXIS 1**

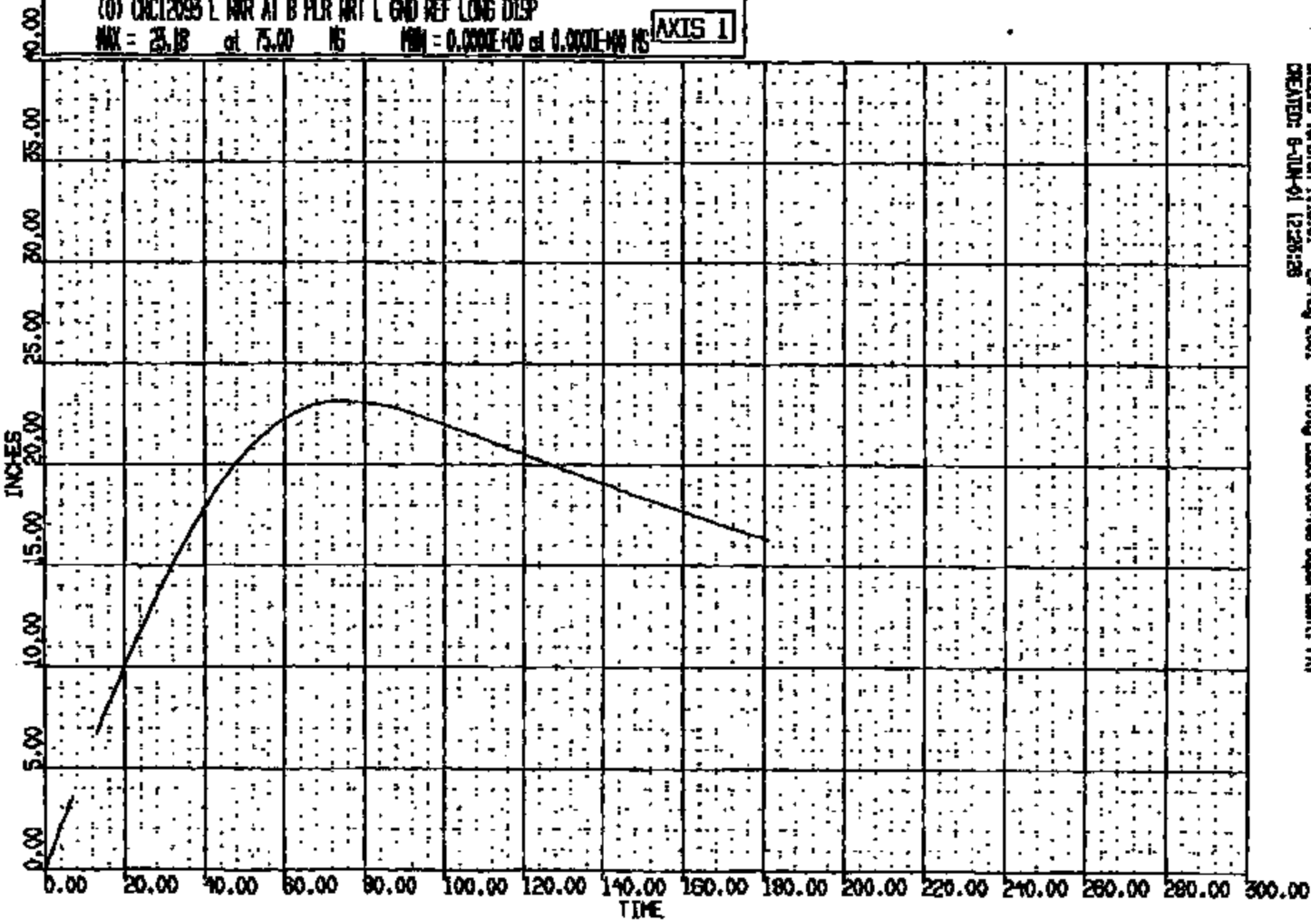


CRSWS Version 1.18.01 - 29-May-2001 Safety Laboratories Department, PAW
CREATED: 6-MAY-01 11:49:07

CRITS 0012093

CR 7: 12093 TO: TC1831 DATE: 001208 08:29:25
2000 DISB

(0) CR12093 L ARR AT B PLR RT L END REF LONG DISP
MAX = 25.18 at 75.00 MS MIN = 0.000E+00 at 0.000E+00 MS **AXIS 1**



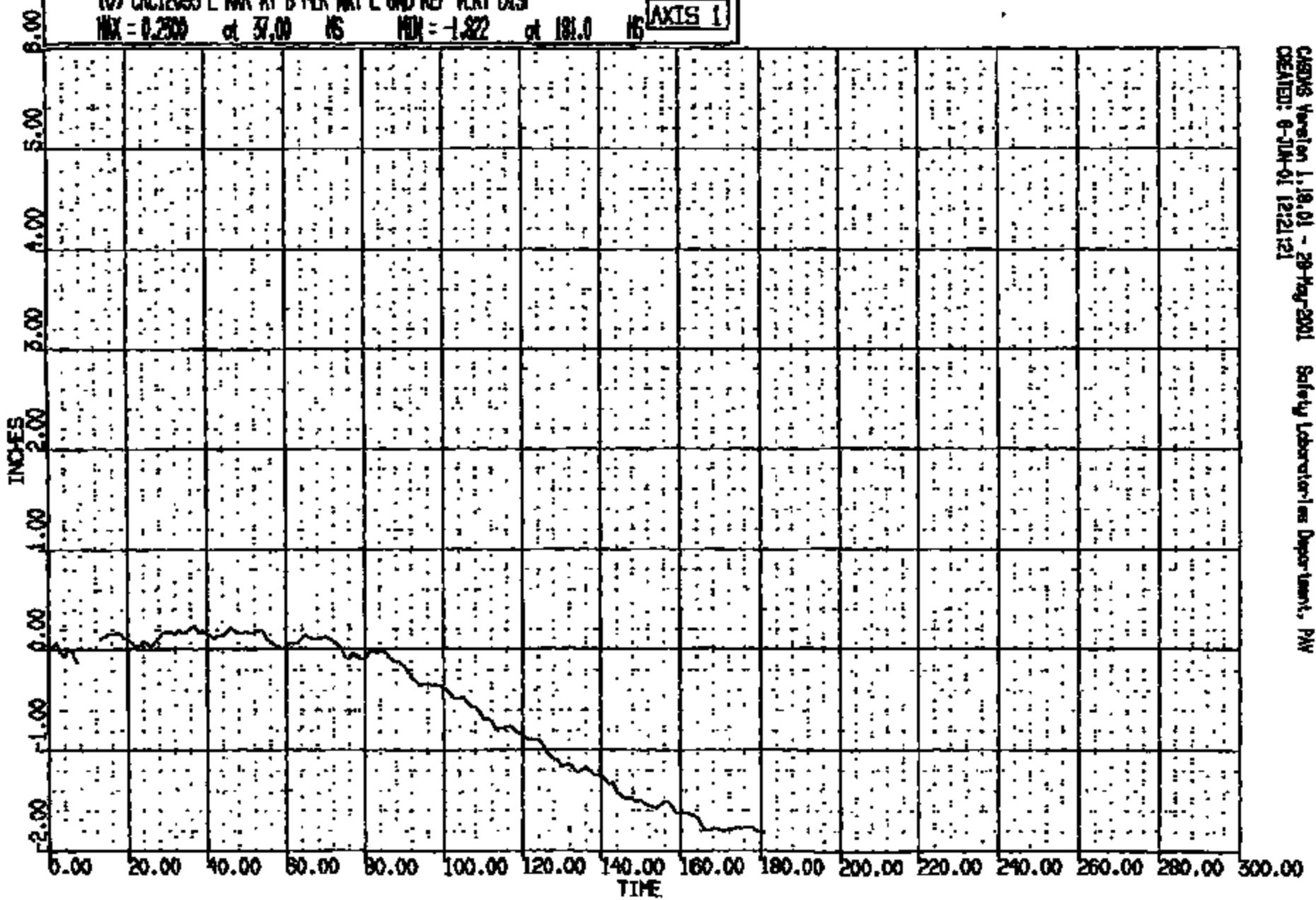
CRSIS Version 1.18.01 - 29-May-2001 Safety Laboratories Department, PAW
CREATED: 6-JUN-01 12:26:28

CRIS 0012093

CR # : 12093 TO: TC1851 DATE: 001208 09:29:25
2000 D188

(0) CRT12093 L RWR AT B FLR WRT L GND REF VERT DISP
MAX = 0.2500 at 37.00 HS MIN = -1.822 at 181.0 HS

AXIS 1

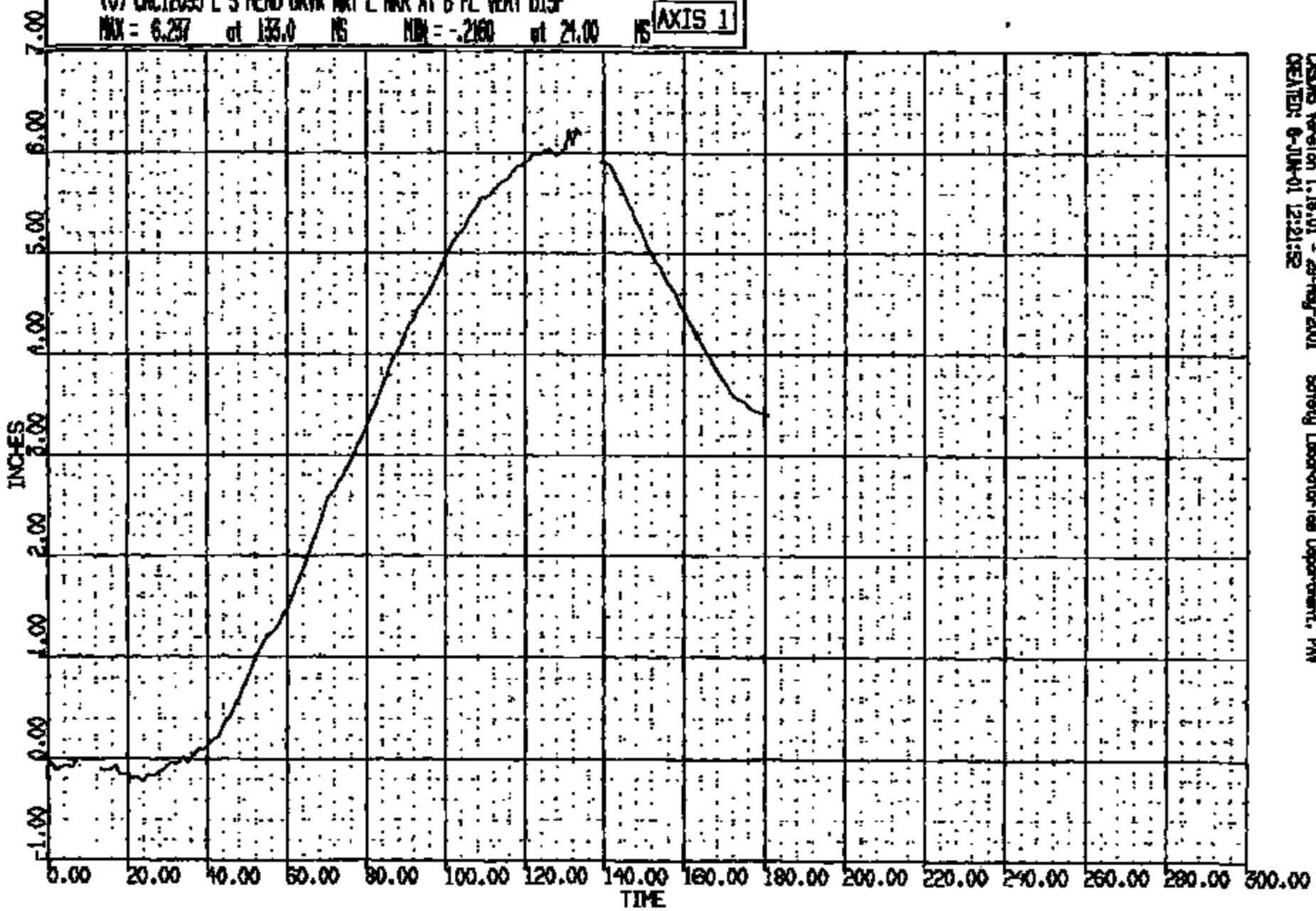


CRDMS Version 1.18.01 - 28-May-2001 Safety Laboratories Department, PNY
CREATED: 8-JUN-01 12:21:21

CRTS 0012093

CR R: 12093 TO: TC1851 DATE: 001204 09:28:25
2000 DISC

(6) CR12093 L S HEAD DRVW WRT L NWR AT B PL VERT DISP
MAX = 6.257 at 133.0 NS MIN = -.2160 at 21.00 NS **AXIS 1**

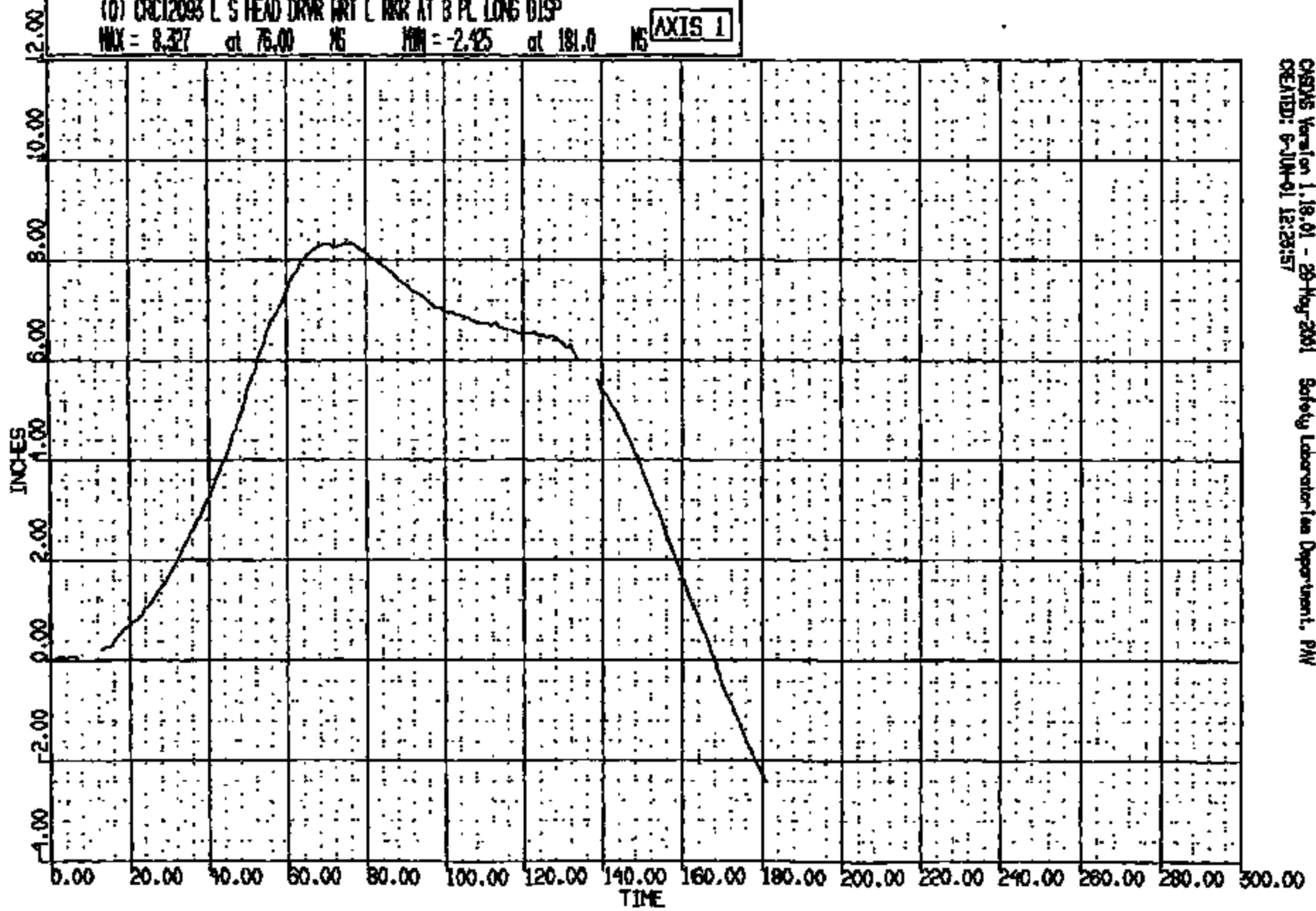


CASMG Version 1.19.01 - 28-Aug-2001 Safety Laboratories Department, PW
CREATED: 8-JUN-01 12:21:52

CRTS 0012093

CR R: 12093 TO: TC1831 DATE: 001208 09:29:25
2000 D198

(0) CR012093 L S HEAD DRVR WRT L WRK AT B PL LONG DISP
MAX = 8.327 at 75.00 MS MIN = -2.425 at 181.0 MS **AXIS 1**

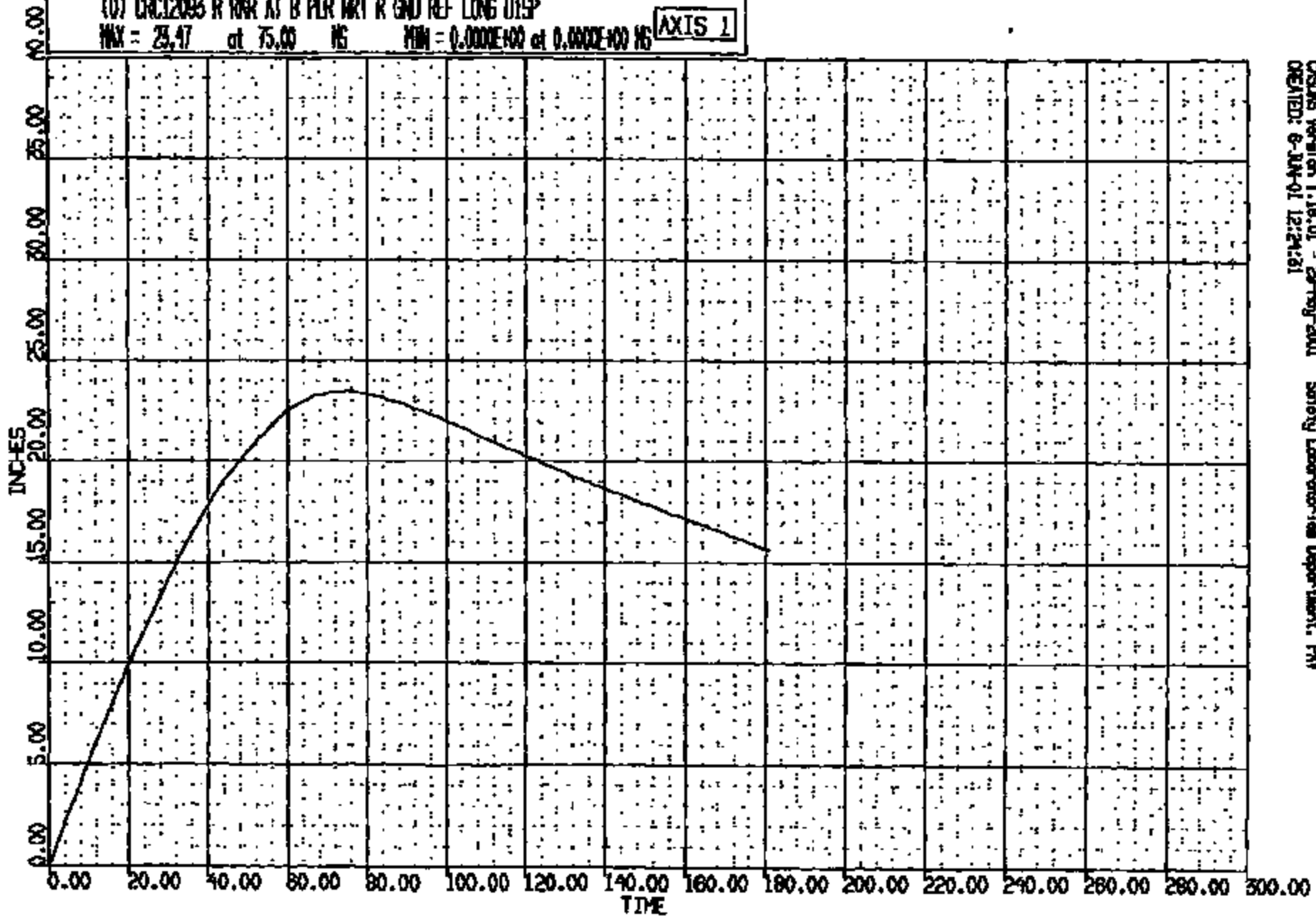


CRSAS Version 1.18.01 - 29-May-2001 Safety Laboratories Department, PAW
CREATED: 6-JUN-01 12:28:57

CRIS 0012093

CR R: 12093 TO: TC1851 DATE: 001206 08:29:23
2000 Dies

(0) CR12093 R RRR AT B PLR WRT R GND REF LONG DISP
MAX = 23.47 at 75.00 MS MIN = 0.000E+00 at 0.000E+00 MS **AXIS 1**

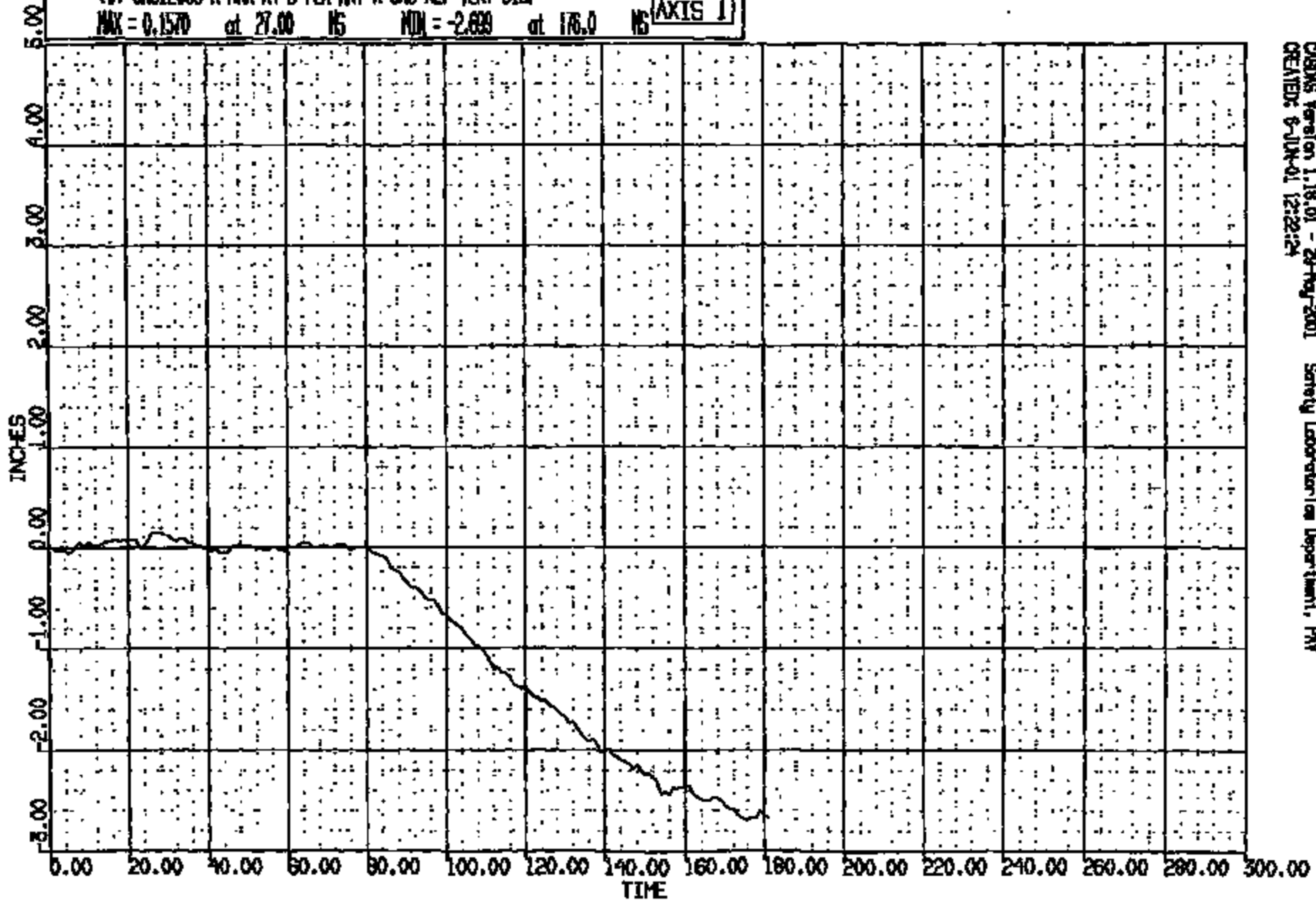


CASME Version 1.18.01 - 29-May-2001 Safety Laboratories Department, PAW
CREATED: 6-JUN-01 12:24:21

CRTS 0012093

CR R: 12093 TO: TC1831 DATE: 001208 09:29:25
3000 D188

(0) CR12093 R RNR AT B PLR WRT R GND REF VERT DISP
MAX = 0.1570 at 27.00 NS MIN = -2.639 at 176.0 NS **AXIS 1**



CRSIS Version 1.16.01 - 29-Aug-2001 Safety Laboratory Department, PW
CREATED: 8-JUN-01 12:22:24

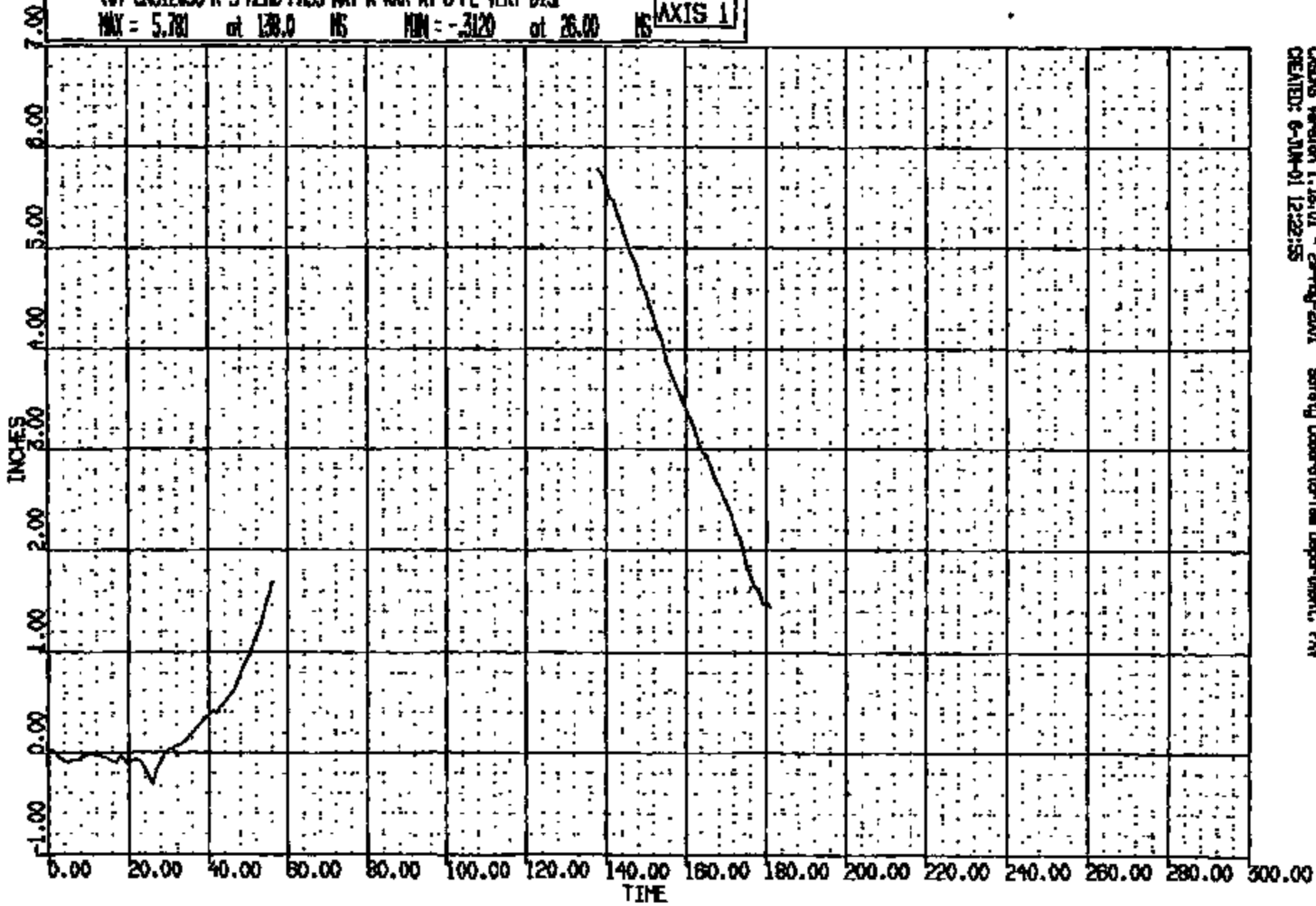
CRIS 0012093

CR R: 12093 TO: TC1631 DATE: 001206 00:29:26
2000 D188

(0) CR12093 R S HEAD PASS WRT R RGR AT B PL VERT DISP

MAX = 5.781 at 138.0 NS MIN = -3.120 at 26.00 NS

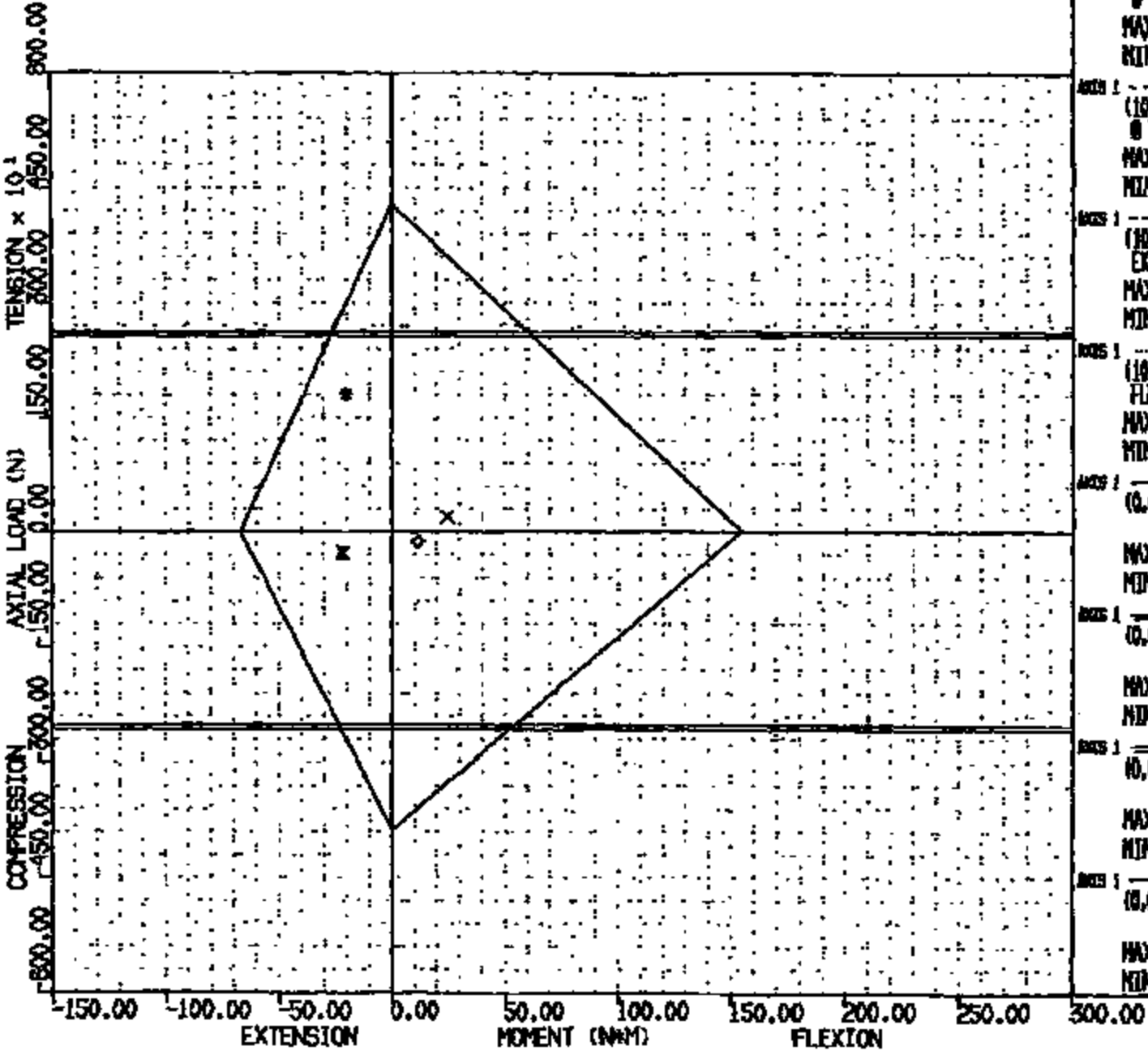
AXIS 1



CR12093 Version 1.18.01 - 29-Aug-2001 Safety Laboratories Department, PHV
CREATED: 6-JUN-01 12:22:55

CR12093

FOREIGN NECK INJURY CRITERIA CORRIDOR PLOT
 ORIGIN: 180808 TO: TC1881 DATE: 001208 09:28:25
 DUMMIES: DUMMIES IN: POSITION TEST
 ORIGIN: 180808 TO: TC1881 DATE: 001208 09:28:25
 DUMMIES: DUMMIES IN: POSITION TEST
 ORIGIN: 180808 TO: TC1881 DATE: 001208 09:28:25
 DUMMIES: DUMMIES IN: POSITION TEST



FOREIGN	
RES 1	(10119, 10111) NECK TENSION EXTENSION @ TIME OF MAX MFE MAX = 1806. at -20.32 MIN = 1806. at -20.32
RES 1	(10114, 10113) NECK TENSION FLEXION @ TIME OF MAX MFE MAX = 195.0 at 21.83 MIN = 195.0 at 21.83
RES 1	(10126, 10121) NECK COMPRESSION EXTENSION @ TIME OF MAX MFE MAX = -276.0 at -21.60 MIN = -276.0 at -21.60
RES 1	(10118, 10122) NECK COMPRESSION FLEXION @ TIME OF MAX MFE MAX = -132.0 at 11.61 MIN = -132.0 at 11.61
RES 1	(0,0) NEJ CORRIDOR MAX = 4287. at 0.0000E+00 MIN = -3880. at 0.0000E+00
RES 1	(0,0) PEAK TENSION CRITERIA MAX = 2620. at -150.0 MIN = 2620. at -150.0
RES 1	(0,0) PEAK COMPRESSION CRITERIA MAX = -2520. at -150.0 MIN = -2520. at -150.0
RES 1	(0,0) X AND Y AXES MAX = 6000. at 0.0000E+00 MIN = -6000. at 0.0000E+00

CASDS Version 1.18.01 - 29-May-2001 Safety Laboratories Department, PAN
 CREATED: 6-JUN-01 09:08:50

ASC TO #: T- TC1831

TARGET DIMENSIONAL ANALYSIS REPORT

CRASH #: 12093

VEHICLE INFORMATION

TEST DESCRIPTION: 90 DEG. FRONT FIXED BARRIER (L.C.)
VEHICLE PROGRAM YEAR: 2000
VEHICLE MODEL NAME: D-186
VEHICLE PROGRAM NAME: D-186
VEHICLE ID NUMBER: 307W148
CERTIFICATION VEHICLE CODE: DV
REQUESTOR NAME: J. FAZIO
TEST ENGINEER NAME:

TIME AND DATE OF REPORT: 17-JAN-01 07:57:42

CRTS 0012093

** POINT COORDINATES **

UNIT NO	SIDE	PRT NO	DESCRIPTION		INCHES			INCHES CHANGED					
					LONG X	LAT Y	VERT Z	X	Y	Z	D		
070			SEE COMMENT SHEET										
		10	LEFT HYBRID III "H" FT REL. TO FRT/BILL/TARGET	BSP APT	8.74		13.43						
		20	RIGHT HYBRID III "H" FT REL. TO FRT/BILL/TARGET	BSP APT	8.74		12.66						
075			CEN POSITIONING / SIDED										
L		43	CEN FRONT DOOR OPENING* A PILLAR(& SYDG)ROCKER	BSP APT	94.77	-31.13	17.85						
R		43	CEN FRONT DOOR OPENING* A PILLAR(& SYDG)ROCKER	BSP APT	93.49	31.03	17.02						
L		44	CEN FRONT DOOR OPENING ROCKER SB PILLAR	BSP APT	118.92	-31.28	16.74						
R		44	CEN FRONT DOOR OPENING ROCKER SB PILLAR	BSP APT	119.28	31.12	16.67						
124			TOP (BODY) NON SIDED										
		08	CONTROL POINT LEFT REAR BILL	BSP APT	147.97	-26.47	13.36						
					147.97	-26.47	13.36	0.00	0.00	0.00	0.00		
		12	BUMPER @ LEFT MOUNTING FRONT	BSP APT	31.66	-22.00	27.71						
					47.44	-31.11	30.95	15.78	0.89	3.24	16.13		
		13	BUMPER @ CENTERLINE FRONT	BSP APT	30.50	-0.89	27.78						
					48.81	0.87	30.70	18.41	0.96	3.08	18.68		
		14	BUMPER @ RIGHT MOUNTING FRONT	BSP APT	31.63	20.28	27.58						
					48.05	20.34	31.64	16.42	0.06	4.06	16.91		
		17	ENGINE POINT (RELATIVE)	BSP APT	50.75	0.68	25.72						
					58.28	2.35	38.04	7.83	1.57	2.32	8.03		

* VALUE WAS TRANSLATED

TIME AND DATE OF REPORT: 17-JAN-01 07:57:43

PAGE 1

** POINT COORDINATES **

PNT NO	SIDE	PNT NO	DESCRIPTION		INCHES			INCHES CHANGED			
					LONG X	LAT Y	VECT Z	X	Y	Z	D
		18	COWL POINT (RELATIVE)	BEF AFT	74.87	7.09	33.29				
		21	ROOF @ C/L OF VEHICLE (RELATIVE) @ (W/S)	BEF AFT	107.98 108.24	0.29 0.35	58.07 58.72	0.26	0.06	0.55	0.70
		41	STEERING COLUMN MOUNT INBOARD UPPER	BEF AFT	92.73 91.11	-9.75 -9.86	34.56 34.77	0.38	-0.11	0.21	0.45
		42	STEERING COLUMN MOUNT OUTBOARD UPPER	BEF AFT	92.51 92.94	-17.07 -17.14	34.44 34.65	0.43	-0.07	0.21	0.48
		43	STEERING COLUMN MOUNT INBOARD LOWER	BEF AFT	87.25 87.59	-9.50 -9.59	32.49 32.68	0.34	-0.09	0.19	0.40
		44	STEERING COLUMN MOUNT OUTBOARD LOWER	BEF AFT	86.92 87.37	-16.83 -16.98	32.42 32.64	0.45	-0.15	0.22	0.52
		51	TOP/1 STEERING WHEEL PERIPHERY	BEF AFT	103.24 103.35	-13.29 -13.36	47.20 47.51	0.11	-0.07	0.31	0.34
		52	RIGHT/2 STEERING WHEEL PERIPHERY	BEF AFT	105.67 105.81	-7.17 -7.08	41.19 41.65	0.14	0.09	0.46	0.49
		53	BOTTOM/3 STEERING WHEEL PERIPHERY	BEF AFT	108.08 108.30	-13.83 -13.90	34.15 34.65	0.32	-0.07	0.50	0.60
		54	LEFT/4 STEERING WHEEL PERIPHERY	BEF AFT	105.19 106.47	-20.83 -20.78	41.39 41.82	0.28	0.11	0.43	0.52
		55	STEERING WHEEL HUB BUT @ C/L	BEF AFT	100.50 100.95	-13.90 -13.82	38.60 38.81	0.45	0.08	0.31	0.58
		61	STEERING COLUMN OPENING LEFT MIDDLE #61 (F/F)	BEF AFT	76.42 81.21	-11.83 -11.36	26.84 28.34	4.79	0.47	1.50	5.04
		62	STEERING COLUMN OPENING BOTTOM #62 (F/F)	BEF AFT	77.03 81.95	-8.46 -8.15	22.68 24.10	4.92	0.31	1.42	5.13
		63	STEERING COLUMN OPENING RIGHT MIDDLE #63 (F/F)	BEF AFT	76.52 82.08	-6.12 -5.85	26.14 27.50	5.56	0.27	1.36	5.73

* VALUE WAS TRANSLATED

TIME AND DATE OF REPORT: 17-JAN-01 07:57:44

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** POINT COORDINATES **

INCHES

INCHES CHANGED

UNIT NO	SIDE	PNT NO	DESCRIPTION		INCHES			INCHES CHANGED																																																																																																																																																																																																						
					LONG X	LET Y	WRT Z	X	Y	Z	D																																																																																																																																																																																																			
64			DASH PANEL POINT #64 DRIVER/S LOWER MID(F/P)	REF	76.40	-13.31	25.50	4.45	0.43	1.45	4.70																																																																																																																																																																																																			
				AFT	89.85	-12.88	26.95					65			TOP BOARD POINT #65 DRIVER SIDE @ MID (F/P)	REF	81.81	-13.14	14.83	2.85	-0.34	0.54	2.91	AFT	84.66	-13.48	17.37	66			TUNNEL POINT #66 DRIVER/S @ FRONT (F/P)	REF	79.91	-3.11	19.17	4.77	0.03	0.85	4.80	AFT	84.68	-3.08	19.72	67			TUNNEL POINT #67 DRIVER/S @ REAR (F/P)	REF	101.94	-3.69	17.95	-0.40	-0.12	-3.67	3.69	AFT	101.54	-3.82	14.28	69			DASH PANEL POINT #69 PASS/S LOWER MID(F/P)	REF	75.14	13.38	24.80	4.55	-0.01	0.87	4.63	AFT	79.69	13.37	25.67	70			TOP BOARD POINT # 70 PASS/S @ MIDDLE (F/P)	REF	81.70	13.14	17.37	3.84	0.45	0.62	3.93	AFT	85.54	13.59	17.99	71			TUNNEL POINT # 71 PASS/S @ FRONT (F/P)	REF	90.01	3.91	19.17	5.05	0.22	0.43	5.07	AFT	88.06	4.13	19.60	72			TUNNEL POINT # 72 PASS/S @ REAR (F/P)	REF	103.89	3.73	17.65	-0.21	-0.01	-3.38	3.39	AFT	102.88	3.72	14.27	80			INSTRUMENT PANEL (REL)	REF	98.18	-26.86	38.27	0.61	0.00	0.17	0.63	AFT	98.88	-26.96	38.54	96			CONTROL POINT RIGHT REAR HILL	REF	148.22	26.36	13.39	-0.01	0.09	0.01	0.09	AFT	148.21	26.45	13.40	125			TOP (BODY) SIDED								L 11			SHOT_GUN POINT # 11 FRONT OF FENDER	REF	48.85	-26.82	35.96	4.32	2.27	2.79	5.62	AFT	52.87	-24.35	28.78	R 11			SHOT_GUN POINT # 11 FRONT OF FENDER	REF	48.81	26.96	35.65	3.83	0.51	1.72	4.23	AFT	52.44	27.47	37.37	L 12			SHOT_GUN POINT # 12	REF	57.43	-27.42	37.89
65			TOP BOARD POINT #65 DRIVER SIDE @ MID (F/P)	REF	81.81	-13.14	14.83	2.85	-0.34	0.54	2.91																																																																																																																																																																																																			
				AFT	84.66	-13.48	17.37					66			TUNNEL POINT #66 DRIVER/S @ FRONT (F/P)	REF	79.91	-3.11	19.17	4.77	0.03	0.85	4.80	AFT	84.68	-3.08	19.72	67			TUNNEL POINT #67 DRIVER/S @ REAR (F/P)	REF	101.94	-3.69	17.95	-0.40	-0.12	-3.67	3.69	AFT	101.54	-3.82	14.28	69			DASH PANEL POINT #69 PASS/S LOWER MID(F/P)	REF	75.14	13.38	24.80	4.55	-0.01	0.87	4.63	AFT	79.69	13.37	25.67	70			TOP BOARD POINT # 70 PASS/S @ MIDDLE (F/P)	REF	81.70	13.14	17.37	3.84	0.45	0.62	3.93	AFT	85.54	13.59	17.99	71			TUNNEL POINT # 71 PASS/S @ FRONT (F/P)	REF	90.01	3.91	19.17	5.05	0.22	0.43	5.07	AFT	88.06	4.13	19.60	72			TUNNEL POINT # 72 PASS/S @ REAR (F/P)	REF	103.89	3.73	17.65	-0.21	-0.01	-3.38	3.39	AFT	102.88	3.72	14.27	80			INSTRUMENT PANEL (REL)	REF	98.18	-26.86	38.27	0.61	0.00	0.17	0.63	AFT	98.88	-26.96	38.54	96			CONTROL POINT RIGHT REAR HILL	REF	148.22	26.36	13.39	-0.01	0.09	0.01	0.09	AFT	148.21	26.45	13.40	125			TOP (BODY) SIDED								L 11			SHOT_GUN POINT # 11 FRONT OF FENDER	REF	48.85	-26.82	35.96	4.32	2.27	2.79	5.62	AFT	52.87	-24.35	28.78	R 11			SHOT_GUN POINT # 11 FRONT OF FENDER	REF	48.81	26.96	35.65	3.83	0.51	1.72	4.23	AFT	52.44	27.47	37.37	L 12			SHOT_GUN POINT # 12	REF	57.43	-27.42	37.89	3.26	4.89	4.67	7.51	AFT	60.69	-22.53	42.56								
66			TUNNEL POINT #66 DRIVER/S @ FRONT (F/P)	REF	79.91	-3.11	19.17	4.77	0.03	0.85	4.80																																																																																																																																																																																																			
				AFT	84.68	-3.08	19.72					67			TUNNEL POINT #67 DRIVER/S @ REAR (F/P)	REF	101.94	-3.69	17.95	-0.40	-0.12	-3.67	3.69	AFT	101.54	-3.82	14.28	69			DASH PANEL POINT #69 PASS/S LOWER MID(F/P)	REF	75.14	13.38	24.80	4.55	-0.01	0.87	4.63	AFT	79.69	13.37	25.67	70			TOP BOARD POINT # 70 PASS/S @ MIDDLE (F/P)	REF	81.70	13.14	17.37	3.84	0.45	0.62	3.93	AFT	85.54	13.59	17.99	71			TUNNEL POINT # 71 PASS/S @ FRONT (F/P)	REF	90.01	3.91	19.17	5.05	0.22	0.43	5.07	AFT	88.06	4.13	19.60	72			TUNNEL POINT # 72 PASS/S @ REAR (F/P)	REF	103.89	3.73	17.65	-0.21	-0.01	-3.38	3.39	AFT	102.88	3.72	14.27	80			INSTRUMENT PANEL (REL)	REF	98.18	-26.86	38.27	0.61	0.00	0.17	0.63	AFT	98.88	-26.96	38.54	96			CONTROL POINT RIGHT REAR HILL	REF	148.22	26.36	13.39	-0.01	0.09	0.01	0.09	AFT	148.21	26.45	13.40	125			TOP (BODY) SIDED								L 11			SHOT_GUN POINT # 11 FRONT OF FENDER	REF	48.85	-26.82	35.96	4.32	2.27	2.79	5.62	AFT	52.87	-24.35	28.78	R 11			SHOT_GUN POINT # 11 FRONT OF FENDER	REF	48.81	26.96	35.65	3.83	0.51	1.72	4.23	AFT	52.44	27.47	37.37	L 12			SHOT_GUN POINT # 12	REF	57.43	-27.42	37.89	3.26	4.89	4.67	7.51	AFT	60.69	-22.53	42.56																								
67			TUNNEL POINT #67 DRIVER/S @ REAR (F/P)	REF	101.94	-3.69	17.95	-0.40	-0.12	-3.67	3.69																																																																																																																																																																																																			
				AFT	101.54	-3.82	14.28					69			DASH PANEL POINT #69 PASS/S LOWER MID(F/P)	REF	75.14	13.38	24.80	4.55	-0.01	0.87	4.63	AFT	79.69	13.37	25.67	70			TOP BOARD POINT # 70 PASS/S @ MIDDLE (F/P)	REF	81.70	13.14	17.37	3.84	0.45	0.62	3.93	AFT	85.54	13.59	17.99	71			TUNNEL POINT # 71 PASS/S @ FRONT (F/P)	REF	90.01	3.91	19.17	5.05	0.22	0.43	5.07	AFT	88.06	4.13	19.60	72			TUNNEL POINT # 72 PASS/S @ REAR (F/P)	REF	103.89	3.73	17.65	-0.21	-0.01	-3.38	3.39	AFT	102.88	3.72	14.27	80			INSTRUMENT PANEL (REL)	REF	98.18	-26.86	38.27	0.61	0.00	0.17	0.63	AFT	98.88	-26.96	38.54	96			CONTROL POINT RIGHT REAR HILL	REF	148.22	26.36	13.39	-0.01	0.09	0.01	0.09	AFT	148.21	26.45	13.40	125			TOP (BODY) SIDED								L 11			SHOT_GUN POINT # 11 FRONT OF FENDER	REF	48.85	-26.82	35.96	4.32	2.27	2.79	5.62	AFT	52.87	-24.35	28.78	R 11			SHOT_GUN POINT # 11 FRONT OF FENDER	REF	48.81	26.96	35.65	3.83	0.51	1.72	4.23	AFT	52.44	27.47	37.37	L 12			SHOT_GUN POINT # 12	REF	57.43	-27.42	37.89	3.26	4.89	4.67	7.51	AFT	60.69	-22.53	42.56																																								
69			DASH PANEL POINT #69 PASS/S LOWER MID(F/P)	REF	75.14	13.38	24.80	4.55	-0.01	0.87	4.63																																																																																																																																																																																																			
				AFT	79.69	13.37	25.67					70			TOP BOARD POINT # 70 PASS/S @ MIDDLE (F/P)	REF	81.70	13.14	17.37	3.84	0.45	0.62	3.93	AFT	85.54	13.59	17.99	71			TUNNEL POINT # 71 PASS/S @ FRONT (F/P)	REF	90.01	3.91	19.17	5.05	0.22	0.43	5.07	AFT	88.06	4.13	19.60	72			TUNNEL POINT # 72 PASS/S @ REAR (F/P)	REF	103.89	3.73	17.65	-0.21	-0.01	-3.38	3.39	AFT	102.88	3.72	14.27	80			INSTRUMENT PANEL (REL)	REF	98.18	-26.86	38.27	0.61	0.00	0.17	0.63	AFT	98.88	-26.96	38.54	96			CONTROL POINT RIGHT REAR HILL	REF	148.22	26.36	13.39	-0.01	0.09	0.01	0.09	AFT	148.21	26.45	13.40	125			TOP (BODY) SIDED								L 11			SHOT_GUN POINT # 11 FRONT OF FENDER	REF	48.85	-26.82	35.96	4.32	2.27	2.79	5.62	AFT	52.87	-24.35	28.78	R 11			SHOT_GUN POINT # 11 FRONT OF FENDER	REF	48.81	26.96	35.65	3.83	0.51	1.72	4.23	AFT	52.44	27.47	37.37	L 12			SHOT_GUN POINT # 12	REF	57.43	-27.42	37.89	3.26	4.89	4.67	7.51	AFT	60.69	-22.53	42.56																																																								
70			TOP BOARD POINT # 70 PASS/S @ MIDDLE (F/P)	REF	81.70	13.14	17.37	3.84	0.45	0.62	3.93																																																																																																																																																																																																			
				AFT	85.54	13.59	17.99					71			TUNNEL POINT # 71 PASS/S @ FRONT (F/P)	REF	90.01	3.91	19.17	5.05	0.22	0.43	5.07	AFT	88.06	4.13	19.60	72			TUNNEL POINT # 72 PASS/S @ REAR (F/P)	REF	103.89	3.73	17.65	-0.21	-0.01	-3.38	3.39	AFT	102.88	3.72	14.27	80			INSTRUMENT PANEL (REL)	REF	98.18	-26.86	38.27	0.61	0.00	0.17	0.63	AFT	98.88	-26.96	38.54	96			CONTROL POINT RIGHT REAR HILL	REF	148.22	26.36	13.39	-0.01	0.09	0.01	0.09	AFT	148.21	26.45	13.40	125			TOP (BODY) SIDED								L 11			SHOT_GUN POINT # 11 FRONT OF FENDER	REF	48.85	-26.82	35.96	4.32	2.27	2.79	5.62	AFT	52.87	-24.35	28.78	R 11			SHOT_GUN POINT # 11 FRONT OF FENDER	REF	48.81	26.96	35.65	3.83	0.51	1.72	4.23	AFT	52.44	27.47	37.37	L 12			SHOT_GUN POINT # 12	REF	57.43	-27.42	37.89	3.26	4.89	4.67	7.51	AFT	60.69	-22.53	42.56																																																																								
71			TUNNEL POINT # 71 PASS/S @ FRONT (F/P)	REF	90.01	3.91	19.17	5.05	0.22	0.43	5.07																																																																																																																																																																																																			
				AFT	88.06	4.13	19.60					72			TUNNEL POINT # 72 PASS/S @ REAR (F/P)	REF	103.89	3.73	17.65	-0.21	-0.01	-3.38	3.39	AFT	102.88	3.72	14.27	80			INSTRUMENT PANEL (REL)	REF	98.18	-26.86	38.27	0.61	0.00	0.17	0.63	AFT	98.88	-26.96	38.54	96			CONTROL POINT RIGHT REAR HILL	REF	148.22	26.36	13.39	-0.01	0.09	0.01	0.09	AFT	148.21	26.45	13.40	125			TOP (BODY) SIDED								L 11			SHOT_GUN POINT # 11 FRONT OF FENDER	REF	48.85	-26.82	35.96	4.32	2.27	2.79	5.62	AFT	52.87	-24.35	28.78	R 11			SHOT_GUN POINT # 11 FRONT OF FENDER	REF	48.81	26.96	35.65	3.83	0.51	1.72	4.23	AFT	52.44	27.47	37.37	L 12			SHOT_GUN POINT # 12	REF	57.43	-27.42	37.89	3.26	4.89	4.67	7.51	AFT	60.69	-22.53	42.56																																																																																								
72			TUNNEL POINT # 72 PASS/S @ REAR (F/P)	REF	103.89	3.73	17.65	-0.21	-0.01	-3.38	3.39																																																																																																																																																																																																			
				AFT	102.88	3.72	14.27					80			INSTRUMENT PANEL (REL)	REF	98.18	-26.86	38.27	0.61	0.00	0.17	0.63	AFT	98.88	-26.96	38.54	96			CONTROL POINT RIGHT REAR HILL	REF	148.22	26.36	13.39	-0.01	0.09	0.01	0.09	AFT	148.21	26.45	13.40	125			TOP (BODY) SIDED								L 11			SHOT_GUN POINT # 11 FRONT OF FENDER	REF	48.85	-26.82	35.96	4.32	2.27	2.79	5.62	AFT	52.87	-24.35	28.78	R 11			SHOT_GUN POINT # 11 FRONT OF FENDER	REF	48.81	26.96	35.65	3.83	0.51	1.72	4.23	AFT	52.44	27.47	37.37	L 12			SHOT_GUN POINT # 12	REF	57.43	-27.42	37.89	3.26	4.89	4.67	7.51	AFT	60.69	-22.53	42.56																																																																																																								
80			INSTRUMENT PANEL (REL)	REF	98.18	-26.86	38.27	0.61	0.00	0.17	0.63																																																																																																																																																																																																			
				AFT	98.88	-26.96	38.54					96			CONTROL POINT RIGHT REAR HILL	REF	148.22	26.36	13.39	-0.01	0.09	0.01	0.09	AFT	148.21	26.45	13.40	125			TOP (BODY) SIDED								L 11			SHOT_GUN POINT # 11 FRONT OF FENDER	REF	48.85	-26.82	35.96	4.32	2.27	2.79	5.62	AFT	52.87	-24.35	28.78	R 11			SHOT_GUN POINT # 11 FRONT OF FENDER	REF	48.81	26.96	35.65	3.83	0.51	1.72	4.23	AFT	52.44	27.47	37.37	L 12			SHOT_GUN POINT # 12	REF	57.43	-27.42	37.89	3.26	4.89	4.67	7.51	AFT	60.69	-22.53	42.56																																																																																																																								
96			CONTROL POINT RIGHT REAR HILL	REF	148.22	26.36	13.39	-0.01	0.09	0.01	0.09																																																																																																																																																																																																			
				AFT	148.21	26.45	13.40					125			TOP (BODY) SIDED								L 11			SHOT_GUN POINT # 11 FRONT OF FENDER	REF	48.85	-26.82	35.96	4.32	2.27	2.79	5.62	AFT	52.87	-24.35	28.78	R 11			SHOT_GUN POINT # 11 FRONT OF FENDER	REF	48.81	26.96	35.65	3.83	0.51	1.72	4.23	AFT	52.44	27.47	37.37	L 12			SHOT_GUN POINT # 12	REF	57.43	-27.42	37.89	3.26	4.89	4.67	7.51	AFT	60.69	-22.53	42.56																																																																																																																																								
125			TOP (BODY) SIDED																																																																																																																																																																																																											
L 11			SHOT_GUN POINT # 11 FRONT OF FENDER	REF	48.85	-26.82	35.96	4.32	2.27	2.79	5.62																																																																																																																																																																																																			
				AFT	52.87	-24.35	28.78					R 11			SHOT_GUN POINT # 11 FRONT OF FENDER	REF	48.81	26.96	35.65	3.83	0.51	1.72	4.23	AFT	52.44	27.47	37.37	L 12			SHOT_GUN POINT # 12	REF	57.43	-27.42	37.89	3.26	4.89	4.67	7.51	AFT	60.69	-22.53	42.56																																																																																																																																																																			
R 11			SHOT_GUN POINT # 11 FRONT OF FENDER	REF	48.81	26.96	35.65	3.83	0.51	1.72	4.23																																																																																																																																																																																																			
				AFT	52.44	27.47	37.37					L 12			SHOT_GUN POINT # 12	REF	57.43	-27.42	37.89	3.26	4.89	4.67	7.51	AFT	60.69	-22.53	42.56																																																																																																																																																																																			
L 12			SHOT_GUN POINT # 12	REF	57.43	-27.42	37.89	3.26	4.89	4.67	7.51																																																																																																																																																																																																			
				AFT	60.69	-22.53	42.56																																																																																																																																																																																																							

* VALUE WAS TRANSLATED

TIME AND DATE OF REPORT: 17-JAN-01 07:57:44

PAGE 3

** POINT COORDINATES **

UNIT NO	SIDE	PWT NO	DESCRIPTION		INCHES			INCHES CHANGED																																																																																																																																																																																																											
					LONG X	LAT Y	VERT Z	X	Y	Z	D																																																																																																																																																																																																								
R	12	SHOT_GUN POINT # 12		BEF	57.51	27.73	37.72	3.78	-2.72	3.78	5.42																																																																																																																																																																																																								
				AFT	60.69	25.01	41.50					L	13	SHOT_GUN POINT # 13		BEF	63.32	-27.84	38.77	3.12	3.68	3.85	6.17	AFT	66.44	-24.16	42.62	R	13	SHOT_GUN POINT # 13		BEF	53.38	28.18	38.58	2.79	-2.44	3.70	6.24	AFT	56.17	25.74	42.28	L	14	SHOT_GUN POINT # 14 REAR OF FENDER		BEF	70.05	-28.13	39.33	2.89	2.09	2.29	4.24	AFT	72.94	-26.04	41.62	R	14	SHOT_GUN POINT # 14 REAR OF FENDER		BEF	70.08	28.54	39.18	2.73	-1.42	2.27	3.82	AFT	72.81	27.12	41.48	L	22	"A" PILLAR @ ROOF		BEF	109.97	-24.17	56.80	0.33	-0.01	0.49	0.59	AFT	110.30	-24.18	57.29	R	22	"A" PILLAR @ ROOF		BEF	110.24	24.16	56.75	0.56	-0.20	0.87	1.05	AFT	110.80	23.96	57.62	L	23	"A" PILLAR @ BELT		BEF	88.47	-30.38	39.95	0.44	-0.11	0.30	0.58	AFT	88.95	-30.49	40.25	R	23	"A" PILLAR @ BELT		BEF	88.43	30.71	39.69	0.82	-0.22	0.26	0.89	AFT	89.45	30.49	39.86	L	24	FRONT ROCKER SILL TOT. RELATED TO C/W HOLES		BEF	108.27	-31.93	13.51					AFT				R	24	FRONT ROCKER SILL TOT. RELATED TO C/W HOLES		BEF	108.38	32.03	13.50					AFT				L	27	" B " PILLAR POINT @ BELT		BEF	128.11	-31.09	42.28	0.16	0.06	0.04	0.18	AFT	128.27	-31.03	42.32	R	27	" B " PILLAR POINT @ BELT		BEF	127.67	31.33	40.92	0.33	-0.19	0.19	0.43	AFT	128.80	31.14	41.11	L	28	" WHT " POINT ON ROCKER @ " B " PILLAR		BEF	129.91	-38.97	19.82
L	13	SHOT_GUN POINT # 13		BEF	63.32	-27.84	38.77	3.12	3.68	3.85	6.17																																																																																																																																																																																																								
				AFT	66.44	-24.16	42.62					R	13	SHOT_GUN POINT # 13		BEF	53.38	28.18	38.58	2.79	-2.44	3.70	6.24	AFT	56.17	25.74	42.28	L	14	SHOT_GUN POINT # 14 REAR OF FENDER		BEF	70.05	-28.13	39.33	2.89	2.09	2.29	4.24	AFT	72.94	-26.04	41.62	R	14	SHOT_GUN POINT # 14 REAR OF FENDER		BEF	70.08	28.54	39.18	2.73	-1.42	2.27	3.82	AFT	72.81	27.12	41.48	L	22	"A" PILLAR @ ROOF		BEF	109.97	-24.17	56.80	0.33	-0.01	0.49	0.59	AFT	110.30	-24.18	57.29	R	22	"A" PILLAR @ ROOF		BEF	110.24	24.16	56.75	0.56	-0.20	0.87	1.05	AFT	110.80	23.96	57.62	L	23	"A" PILLAR @ BELT		BEF	88.47	-30.38	39.95	0.44	-0.11	0.30	0.58	AFT	88.95	-30.49	40.25	R	23	"A" PILLAR @ BELT		BEF	88.43	30.71	39.69	0.82	-0.22	0.26	0.89	AFT	89.45	30.49	39.86	L	24	FRONT ROCKER SILL TOT. RELATED TO C/W HOLES		BEF	108.27	-31.93	13.51					AFT				R	24	FRONT ROCKER SILL TOT. RELATED TO C/W HOLES		BEF	108.38	32.03	13.50					AFT				L	27	" B " PILLAR POINT @ BELT		BEF	128.11	-31.09	42.28	0.16	0.06	0.04	0.18	AFT	128.27	-31.03	42.32	R	27	" B " PILLAR POINT @ BELT		BEF	127.67	31.33	40.92	0.33	-0.19	0.19	0.43	AFT	128.80	31.14	41.11	L	28	" WHT " POINT ON ROCKER @ " B " PILLAR		BEF	129.91	-38.97	19.82	0.11	-0.38	0.00	0.40	AFT	129.82	-31.35	19.22								
R	13	SHOT_GUN POINT # 13		BEF	53.38	28.18	38.58	2.79	-2.44	3.70	6.24																																																																																																																																																																																																								
				AFT	56.17	25.74	42.28					L	14	SHOT_GUN POINT # 14 REAR OF FENDER		BEF	70.05	-28.13	39.33	2.89	2.09	2.29	4.24	AFT	72.94	-26.04	41.62	R	14	SHOT_GUN POINT # 14 REAR OF FENDER		BEF	70.08	28.54	39.18	2.73	-1.42	2.27	3.82	AFT	72.81	27.12	41.48	L	22	"A" PILLAR @ ROOF		BEF	109.97	-24.17	56.80	0.33	-0.01	0.49	0.59	AFT	110.30	-24.18	57.29	R	22	"A" PILLAR @ ROOF		BEF	110.24	24.16	56.75	0.56	-0.20	0.87	1.05	AFT	110.80	23.96	57.62	L	23	"A" PILLAR @ BELT		BEF	88.47	-30.38	39.95	0.44	-0.11	0.30	0.58	AFT	88.95	-30.49	40.25	R	23	"A" PILLAR @ BELT		BEF	88.43	30.71	39.69	0.82	-0.22	0.26	0.89	AFT	89.45	30.49	39.86	L	24	FRONT ROCKER SILL TOT. RELATED TO C/W HOLES		BEF	108.27	-31.93	13.51					AFT				R	24	FRONT ROCKER SILL TOT. RELATED TO C/W HOLES		BEF	108.38	32.03	13.50					AFT				L	27	" B " PILLAR POINT @ BELT		BEF	128.11	-31.09	42.28	0.16	0.06	0.04	0.18	AFT	128.27	-31.03	42.32	R	27	" B " PILLAR POINT @ BELT		BEF	127.67	31.33	40.92	0.33	-0.19	0.19	0.43	AFT	128.80	31.14	41.11	L	28	" WHT " POINT ON ROCKER @ " B " PILLAR		BEF	129.91	-38.97	19.82	0.11	-0.38	0.00	0.40	AFT	129.82	-31.35	19.22																								
L	14	SHOT_GUN POINT # 14 REAR OF FENDER		BEF	70.05	-28.13	39.33	2.89	2.09	2.29	4.24																																																																																																																																																																																																								
				AFT	72.94	-26.04	41.62					R	14	SHOT_GUN POINT # 14 REAR OF FENDER		BEF	70.08	28.54	39.18	2.73	-1.42	2.27	3.82	AFT	72.81	27.12	41.48	L	22	"A" PILLAR @ ROOF		BEF	109.97	-24.17	56.80	0.33	-0.01	0.49	0.59	AFT	110.30	-24.18	57.29	R	22	"A" PILLAR @ ROOF		BEF	110.24	24.16	56.75	0.56	-0.20	0.87	1.05	AFT	110.80	23.96	57.62	L	23	"A" PILLAR @ BELT		BEF	88.47	-30.38	39.95	0.44	-0.11	0.30	0.58	AFT	88.95	-30.49	40.25	R	23	"A" PILLAR @ BELT		BEF	88.43	30.71	39.69	0.82	-0.22	0.26	0.89	AFT	89.45	30.49	39.86	L	24	FRONT ROCKER SILL TOT. RELATED TO C/W HOLES		BEF	108.27	-31.93	13.51					AFT				R	24	FRONT ROCKER SILL TOT. RELATED TO C/W HOLES		BEF	108.38	32.03	13.50					AFT				L	27	" B " PILLAR POINT @ BELT		BEF	128.11	-31.09	42.28	0.16	0.06	0.04	0.18	AFT	128.27	-31.03	42.32	R	27	" B " PILLAR POINT @ BELT		BEF	127.67	31.33	40.92	0.33	-0.19	0.19	0.43	AFT	128.80	31.14	41.11	L	28	" WHT " POINT ON ROCKER @ " B " PILLAR		BEF	129.91	-38.97	19.82	0.11	-0.38	0.00	0.40	AFT	129.82	-31.35	19.22																																								
R	14	SHOT_GUN POINT # 14 REAR OF FENDER		BEF	70.08	28.54	39.18	2.73	-1.42	2.27	3.82																																																																																																																																																																																																								
				AFT	72.81	27.12	41.48					L	22	"A" PILLAR @ ROOF		BEF	109.97	-24.17	56.80	0.33	-0.01	0.49	0.59	AFT	110.30	-24.18	57.29	R	22	"A" PILLAR @ ROOF		BEF	110.24	24.16	56.75	0.56	-0.20	0.87	1.05	AFT	110.80	23.96	57.62	L	23	"A" PILLAR @ BELT		BEF	88.47	-30.38	39.95	0.44	-0.11	0.30	0.58	AFT	88.95	-30.49	40.25	R	23	"A" PILLAR @ BELT		BEF	88.43	30.71	39.69	0.82	-0.22	0.26	0.89	AFT	89.45	30.49	39.86	L	24	FRONT ROCKER SILL TOT. RELATED TO C/W HOLES		BEF	108.27	-31.93	13.51					AFT				R	24	FRONT ROCKER SILL TOT. RELATED TO C/W HOLES		BEF	108.38	32.03	13.50					AFT				L	27	" B " PILLAR POINT @ BELT		BEF	128.11	-31.09	42.28	0.16	0.06	0.04	0.18	AFT	128.27	-31.03	42.32	R	27	" B " PILLAR POINT @ BELT		BEF	127.67	31.33	40.92	0.33	-0.19	0.19	0.43	AFT	128.80	31.14	41.11	L	28	" WHT " POINT ON ROCKER @ " B " PILLAR		BEF	129.91	-38.97	19.82	0.11	-0.38	0.00	0.40	AFT	129.82	-31.35	19.22																																																								
L	22	"A" PILLAR @ ROOF		BEF	109.97	-24.17	56.80	0.33	-0.01	0.49	0.59																																																																																																																																																																																																								
				AFT	110.30	-24.18	57.29					R	22	"A" PILLAR @ ROOF		BEF	110.24	24.16	56.75	0.56	-0.20	0.87	1.05	AFT	110.80	23.96	57.62	L	23	"A" PILLAR @ BELT		BEF	88.47	-30.38	39.95	0.44	-0.11	0.30	0.58	AFT	88.95	-30.49	40.25	R	23	"A" PILLAR @ BELT		BEF	88.43	30.71	39.69	0.82	-0.22	0.26	0.89	AFT	89.45	30.49	39.86	L	24	FRONT ROCKER SILL TOT. RELATED TO C/W HOLES		BEF	108.27	-31.93	13.51					AFT				R	24	FRONT ROCKER SILL TOT. RELATED TO C/W HOLES		BEF	108.38	32.03	13.50					AFT				L	27	" B " PILLAR POINT @ BELT		BEF	128.11	-31.09	42.28	0.16	0.06	0.04	0.18	AFT	128.27	-31.03	42.32	R	27	" B " PILLAR POINT @ BELT		BEF	127.67	31.33	40.92	0.33	-0.19	0.19	0.43	AFT	128.80	31.14	41.11	L	28	" WHT " POINT ON ROCKER @ " B " PILLAR		BEF	129.91	-38.97	19.82	0.11	-0.38	0.00	0.40	AFT	129.82	-31.35	19.22																																																																								
R	22	"A" PILLAR @ ROOF		BEF	110.24	24.16	56.75	0.56	-0.20	0.87	1.05																																																																																																																																																																																																								
				AFT	110.80	23.96	57.62					L	23	"A" PILLAR @ BELT		BEF	88.47	-30.38	39.95	0.44	-0.11	0.30	0.58	AFT	88.95	-30.49	40.25	R	23	"A" PILLAR @ BELT		BEF	88.43	30.71	39.69	0.82	-0.22	0.26	0.89	AFT	89.45	30.49	39.86	L	24	FRONT ROCKER SILL TOT. RELATED TO C/W HOLES		BEF	108.27	-31.93	13.51					AFT				R	24	FRONT ROCKER SILL TOT. RELATED TO C/W HOLES		BEF	108.38	32.03	13.50					AFT				L	27	" B " PILLAR POINT @ BELT		BEF	128.11	-31.09	42.28	0.16	0.06	0.04	0.18	AFT	128.27	-31.03	42.32	R	27	" B " PILLAR POINT @ BELT		BEF	127.67	31.33	40.92	0.33	-0.19	0.19	0.43	AFT	128.80	31.14	41.11	L	28	" WHT " POINT ON ROCKER @ " B " PILLAR		BEF	129.91	-38.97	19.82	0.11	-0.38	0.00	0.40	AFT	129.82	-31.35	19.22																																																																																								
L	23	"A" PILLAR @ BELT		BEF	88.47	-30.38	39.95	0.44	-0.11	0.30	0.58																																																																																																																																																																																																								
				AFT	88.95	-30.49	40.25					R	23	"A" PILLAR @ BELT		BEF	88.43	30.71	39.69	0.82	-0.22	0.26	0.89	AFT	89.45	30.49	39.86	L	24	FRONT ROCKER SILL TOT. RELATED TO C/W HOLES		BEF	108.27	-31.93	13.51					AFT				R	24	FRONT ROCKER SILL TOT. RELATED TO C/W HOLES		BEF	108.38	32.03	13.50					AFT				L	27	" B " PILLAR POINT @ BELT		BEF	128.11	-31.09	42.28	0.16	0.06	0.04	0.18	AFT	128.27	-31.03	42.32	R	27	" B " PILLAR POINT @ BELT		BEF	127.67	31.33	40.92	0.33	-0.19	0.19	0.43	AFT	128.80	31.14	41.11	L	28	" WHT " POINT ON ROCKER @ " B " PILLAR		BEF	129.91	-38.97	19.82	0.11	-0.38	0.00	0.40	AFT	129.82	-31.35	19.22																																																																																																								
R	23	"A" PILLAR @ BELT		BEF	88.43	30.71	39.69	0.82	-0.22	0.26	0.89																																																																																																																																																																																																								
				AFT	89.45	30.49	39.86					L	24	FRONT ROCKER SILL TOT. RELATED TO C/W HOLES		BEF	108.27	-31.93	13.51					AFT				R	24	FRONT ROCKER SILL TOT. RELATED TO C/W HOLES		BEF	108.38	32.03	13.50					AFT				L	27	" B " PILLAR POINT @ BELT		BEF	128.11	-31.09	42.28	0.16	0.06	0.04	0.18	AFT	128.27	-31.03	42.32	R	27	" B " PILLAR POINT @ BELT		BEF	127.67	31.33	40.92	0.33	-0.19	0.19	0.43	AFT	128.80	31.14	41.11	L	28	" WHT " POINT ON ROCKER @ " B " PILLAR		BEF	129.91	-38.97	19.82	0.11	-0.38	0.00	0.40	AFT	129.82	-31.35	19.22																																																																																																																								
L	24	FRONT ROCKER SILL TOT. RELATED TO C/W HOLES		BEF	108.27	-31.93	13.51																																																																																																																																																																																																												
				AFT								R	24	FRONT ROCKER SILL TOT. RELATED TO C/W HOLES		BEF	108.38	32.03	13.50					AFT				L	27	" B " PILLAR POINT @ BELT		BEF	128.11	-31.09	42.28	0.16	0.06	0.04	0.18	AFT	128.27	-31.03	42.32	R	27	" B " PILLAR POINT @ BELT		BEF	127.67	31.33	40.92	0.33	-0.19	0.19	0.43	AFT	128.80	31.14	41.11	L	28	" WHT " POINT ON ROCKER @ " B " PILLAR		BEF	129.91	-38.97	19.82	0.11	-0.38	0.00	0.40	AFT	129.82	-31.35	19.22																																																																																																																																								
R	24	FRONT ROCKER SILL TOT. RELATED TO C/W HOLES		BEF	108.38	32.03	13.50																																																																																																																																																																																																												
				AFT								L	27	" B " PILLAR POINT @ BELT		BEF	128.11	-31.09	42.28	0.16	0.06	0.04	0.18	AFT	128.27	-31.03	42.32	R	27	" B " PILLAR POINT @ BELT		BEF	127.67	31.33	40.92	0.33	-0.19	0.19	0.43	AFT	128.80	31.14	41.11	L	28	" WHT " POINT ON ROCKER @ " B " PILLAR		BEF	129.91	-38.97	19.82	0.11	-0.38	0.00	0.40	AFT	129.82	-31.35	19.22																																																																																																																																																								
L	27	" B " PILLAR POINT @ BELT		BEF	128.11	-31.09	42.28	0.16	0.06	0.04	0.18																																																																																																																																																																																																								
				AFT	128.27	-31.03	42.32					R	27	" B " PILLAR POINT @ BELT		BEF	127.67	31.33	40.92	0.33	-0.19	0.19	0.43	AFT	128.80	31.14	41.11	L	28	" WHT " POINT ON ROCKER @ " B " PILLAR		BEF	129.91	-38.97	19.82	0.11	-0.38	0.00	0.40	AFT	129.82	-31.35	19.22																																																																																																																																																																								
R	27	" B " PILLAR POINT @ BELT		BEF	127.67	31.33	40.92	0.33	-0.19	0.19	0.43																																																																																																																																																																																																								
				AFT	128.80	31.14	41.11					L	28	" WHT " POINT ON ROCKER @ " B " PILLAR		BEF	129.91	-38.97	19.82	0.11	-0.38	0.00	0.40	AFT	129.82	-31.35	19.22																																																																																																																																																																																								
L	28	" WHT " POINT ON ROCKER @ " B " PILLAR		BEF	129.91	-38.97	19.82	0.11	-0.38	0.00	0.40																																																																																																																																																																																																								
				AFT	129.82	-31.35	19.22																																																																																																																																																																																																												

* VALUE WAS TRANSLATED

TIME AND DATE OF REPORT: 17-JAN-01 07:57:44

PAGE 4

** POINT COORDINATES **

INCHES

INCHES CHANGES

UNIT NO	SIDE	PWT NO	DESCRIPTION		INCHES			INCHES CHANGES																																																																																																																																																																																											
					LONG X	LAT Y	VERT Z	X	Y	Z	D																																																																																																																																																																																								
R	28		* HET * POINT ON HOOKER * * B * FILLAR	REF	123.02	31.25	18.05	0.11	0.04	0.09	0.15																																																																																																																																																																																								
				AFT	123.13	31.28	18.14					L	31		LATCH/STRIKER BOLT @C/L OR U-BOLT/TOP @B FILLAR	REF	125.01	-31.17	30.56	0.29	-0.25	0.09	0.29	AFT	125.30	-31.42	30.65	R	31		LATCH/STRIKER BOLT @C/L OR U-BOLT/TOP @B FILLAR	REF	125.23	31.22	30.44	0.24	0.00	0.11	0.26	AFT	125.47	31.23	30.55	L	41		FRONT INBOARD TRACK TO FLOOR	REF	108.65	-6.90	14.70	-0.27	-0.41	-1.62	1.77	AFT	107.68	-7.51	15.08	R	41		FRONT INBOARD TRACK TO FLOOR	REF	108.11	7.01	15.69	-0.45	0.15	-0.84	0.96	AFT	107.66	7.16	15.85	L	43		FRONT OUTBOARD TRACK TO FLOOR	REF	107.83	-22.28	15.91	-0.03	-0.67	-0.30	0.73	AFT	107.80	-22.87	15.61	R	43		FRONT OUTBOARD TRACK TO FLOOR	REF	107.79	22.29	15.89	-0.01	0.21	0.13	0.25	AFT	107.78	22.50	16.02	L	43		REAR INBOARD TRACK TO FLOOR	REF	121.35	-5.23	14.63	-0.35	-0.49	-0.66	0.89	AFT	121.00	-5.72	13.97	R	43		REAR INBOARD TRACK TO FLOOR	REF	121.40	5.29	14.61	-0.39	0.11	-0.48	0.43	AFT	121.01	5.40	14.13	L	44		REAR OUTBOARD TRACK TO FLOOR	REF	121.40	-23.32	15.46	-0.02	-0.42	0.05	0.42	AFT	121.38	-23.74	15.51	R	44		REAR OUTBOARD TRACK TO FLOOR	REF	121.38	23.29	15.48	-0.13	0.06	-0.01	0.14	AFT	121.25	23.29	15.47	L	90		* B * POINT ON REAR QUARTER PANEL	REF	209.85	-27.83	38.75	6.15	27.83	-38.75	48.20	AFT	216.00	0.00	0.00	R	90		* B * POINT ON REAR QUARTER PANEL	REF	209.65	27.09	39.11
L	31		LATCH/STRIKER BOLT @C/L OR U-BOLT/TOP @B FILLAR	REF	125.01	-31.17	30.56	0.29	-0.25	0.09	0.29																																																																																																																																																																																								
				AFT	125.30	-31.42	30.65					R	31		LATCH/STRIKER BOLT @C/L OR U-BOLT/TOP @B FILLAR	REF	125.23	31.22	30.44	0.24	0.00	0.11	0.26	AFT	125.47	31.23	30.55	L	41		FRONT INBOARD TRACK TO FLOOR	REF	108.65	-6.90	14.70	-0.27	-0.41	-1.62	1.77	AFT	107.68	-7.51	15.08	R	41		FRONT INBOARD TRACK TO FLOOR	REF	108.11	7.01	15.69	-0.45	0.15	-0.84	0.96	AFT	107.66	7.16	15.85	L	43		FRONT OUTBOARD TRACK TO FLOOR	REF	107.83	-22.28	15.91	-0.03	-0.67	-0.30	0.73	AFT	107.80	-22.87	15.61	R	43		FRONT OUTBOARD TRACK TO FLOOR	REF	107.79	22.29	15.89	-0.01	0.21	0.13	0.25	AFT	107.78	22.50	16.02	L	43		REAR INBOARD TRACK TO FLOOR	REF	121.35	-5.23	14.63	-0.35	-0.49	-0.66	0.89	AFT	121.00	-5.72	13.97	R	43		REAR INBOARD TRACK TO FLOOR	REF	121.40	5.29	14.61	-0.39	0.11	-0.48	0.43	AFT	121.01	5.40	14.13	L	44		REAR OUTBOARD TRACK TO FLOOR	REF	121.40	-23.32	15.46	-0.02	-0.42	0.05	0.42	AFT	121.38	-23.74	15.51	R	44		REAR OUTBOARD TRACK TO FLOOR	REF	121.38	23.29	15.48	-0.13	0.06	-0.01	0.14	AFT	121.25	23.29	15.47	L	90		* B * POINT ON REAR QUARTER PANEL	REF	209.85	-27.83	38.75	6.15	27.83	-38.75	48.20	AFT	216.00	0.00	0.00	R	90		* B * POINT ON REAR QUARTER PANEL	REF	209.65	27.09	39.11	0.31	-27.09	-39.11	47.58	AFT	210.16	0.00	0.00								
R	31		LATCH/STRIKER BOLT @C/L OR U-BOLT/TOP @B FILLAR	REF	125.23	31.22	30.44	0.24	0.00	0.11	0.26																																																																																																																																																																																								
				AFT	125.47	31.23	30.55					L	41		FRONT INBOARD TRACK TO FLOOR	REF	108.65	-6.90	14.70	-0.27	-0.41	-1.62	1.77	AFT	107.68	-7.51	15.08	R	41		FRONT INBOARD TRACK TO FLOOR	REF	108.11	7.01	15.69	-0.45	0.15	-0.84	0.96	AFT	107.66	7.16	15.85	L	43		FRONT OUTBOARD TRACK TO FLOOR	REF	107.83	-22.28	15.91	-0.03	-0.67	-0.30	0.73	AFT	107.80	-22.87	15.61	R	43		FRONT OUTBOARD TRACK TO FLOOR	REF	107.79	22.29	15.89	-0.01	0.21	0.13	0.25	AFT	107.78	22.50	16.02	L	43		REAR INBOARD TRACK TO FLOOR	REF	121.35	-5.23	14.63	-0.35	-0.49	-0.66	0.89	AFT	121.00	-5.72	13.97	R	43		REAR INBOARD TRACK TO FLOOR	REF	121.40	5.29	14.61	-0.39	0.11	-0.48	0.43	AFT	121.01	5.40	14.13	L	44		REAR OUTBOARD TRACK TO FLOOR	REF	121.40	-23.32	15.46	-0.02	-0.42	0.05	0.42	AFT	121.38	-23.74	15.51	R	44		REAR OUTBOARD TRACK TO FLOOR	REF	121.38	23.29	15.48	-0.13	0.06	-0.01	0.14	AFT	121.25	23.29	15.47	L	90		* B * POINT ON REAR QUARTER PANEL	REF	209.85	-27.83	38.75	6.15	27.83	-38.75	48.20	AFT	216.00	0.00	0.00	R	90		* B * POINT ON REAR QUARTER PANEL	REF	209.65	27.09	39.11	0.31	-27.09	-39.11	47.58	AFT	210.16	0.00	0.00																								
L	41		FRONT INBOARD TRACK TO FLOOR	REF	108.65	-6.90	14.70	-0.27	-0.41	-1.62	1.77																																																																																																																																																																																								
				AFT	107.68	-7.51	15.08					R	41		FRONT INBOARD TRACK TO FLOOR	REF	108.11	7.01	15.69	-0.45	0.15	-0.84	0.96	AFT	107.66	7.16	15.85	L	43		FRONT OUTBOARD TRACK TO FLOOR	REF	107.83	-22.28	15.91	-0.03	-0.67	-0.30	0.73	AFT	107.80	-22.87	15.61	R	43		FRONT OUTBOARD TRACK TO FLOOR	REF	107.79	22.29	15.89	-0.01	0.21	0.13	0.25	AFT	107.78	22.50	16.02	L	43		REAR INBOARD TRACK TO FLOOR	REF	121.35	-5.23	14.63	-0.35	-0.49	-0.66	0.89	AFT	121.00	-5.72	13.97	R	43		REAR INBOARD TRACK TO FLOOR	REF	121.40	5.29	14.61	-0.39	0.11	-0.48	0.43	AFT	121.01	5.40	14.13	L	44		REAR OUTBOARD TRACK TO FLOOR	REF	121.40	-23.32	15.46	-0.02	-0.42	0.05	0.42	AFT	121.38	-23.74	15.51	R	44		REAR OUTBOARD TRACK TO FLOOR	REF	121.38	23.29	15.48	-0.13	0.06	-0.01	0.14	AFT	121.25	23.29	15.47	L	90		* B * POINT ON REAR QUARTER PANEL	REF	209.85	-27.83	38.75	6.15	27.83	-38.75	48.20	AFT	216.00	0.00	0.00	R	90		* B * POINT ON REAR QUARTER PANEL	REF	209.65	27.09	39.11	0.31	-27.09	-39.11	47.58	AFT	210.16	0.00	0.00																																								
R	41		FRONT INBOARD TRACK TO FLOOR	REF	108.11	7.01	15.69	-0.45	0.15	-0.84	0.96																																																																																																																																																																																								
				AFT	107.66	7.16	15.85					L	43		FRONT OUTBOARD TRACK TO FLOOR	REF	107.83	-22.28	15.91	-0.03	-0.67	-0.30	0.73	AFT	107.80	-22.87	15.61	R	43		FRONT OUTBOARD TRACK TO FLOOR	REF	107.79	22.29	15.89	-0.01	0.21	0.13	0.25	AFT	107.78	22.50	16.02	L	43		REAR INBOARD TRACK TO FLOOR	REF	121.35	-5.23	14.63	-0.35	-0.49	-0.66	0.89	AFT	121.00	-5.72	13.97	R	43		REAR INBOARD TRACK TO FLOOR	REF	121.40	5.29	14.61	-0.39	0.11	-0.48	0.43	AFT	121.01	5.40	14.13	L	44		REAR OUTBOARD TRACK TO FLOOR	REF	121.40	-23.32	15.46	-0.02	-0.42	0.05	0.42	AFT	121.38	-23.74	15.51	R	44		REAR OUTBOARD TRACK TO FLOOR	REF	121.38	23.29	15.48	-0.13	0.06	-0.01	0.14	AFT	121.25	23.29	15.47	L	90		* B * POINT ON REAR QUARTER PANEL	REF	209.85	-27.83	38.75	6.15	27.83	-38.75	48.20	AFT	216.00	0.00	0.00	R	90		* B * POINT ON REAR QUARTER PANEL	REF	209.65	27.09	39.11	0.31	-27.09	-39.11	47.58	AFT	210.16	0.00	0.00																																																								
L	43		FRONT OUTBOARD TRACK TO FLOOR	REF	107.83	-22.28	15.91	-0.03	-0.67	-0.30	0.73																																																																																																																																																																																								
				AFT	107.80	-22.87	15.61					R	43		FRONT OUTBOARD TRACK TO FLOOR	REF	107.79	22.29	15.89	-0.01	0.21	0.13	0.25	AFT	107.78	22.50	16.02	L	43		REAR INBOARD TRACK TO FLOOR	REF	121.35	-5.23	14.63	-0.35	-0.49	-0.66	0.89	AFT	121.00	-5.72	13.97	R	43		REAR INBOARD TRACK TO FLOOR	REF	121.40	5.29	14.61	-0.39	0.11	-0.48	0.43	AFT	121.01	5.40	14.13	L	44		REAR OUTBOARD TRACK TO FLOOR	REF	121.40	-23.32	15.46	-0.02	-0.42	0.05	0.42	AFT	121.38	-23.74	15.51	R	44		REAR OUTBOARD TRACK TO FLOOR	REF	121.38	23.29	15.48	-0.13	0.06	-0.01	0.14	AFT	121.25	23.29	15.47	L	90		* B * POINT ON REAR QUARTER PANEL	REF	209.85	-27.83	38.75	6.15	27.83	-38.75	48.20	AFT	216.00	0.00	0.00	R	90		* B * POINT ON REAR QUARTER PANEL	REF	209.65	27.09	39.11	0.31	-27.09	-39.11	47.58	AFT	210.16	0.00	0.00																																																																								
R	43		FRONT OUTBOARD TRACK TO FLOOR	REF	107.79	22.29	15.89	-0.01	0.21	0.13	0.25																																																																																																																																																																																								
				AFT	107.78	22.50	16.02					L	43		REAR INBOARD TRACK TO FLOOR	REF	121.35	-5.23	14.63	-0.35	-0.49	-0.66	0.89	AFT	121.00	-5.72	13.97	R	43		REAR INBOARD TRACK TO FLOOR	REF	121.40	5.29	14.61	-0.39	0.11	-0.48	0.43	AFT	121.01	5.40	14.13	L	44		REAR OUTBOARD TRACK TO FLOOR	REF	121.40	-23.32	15.46	-0.02	-0.42	0.05	0.42	AFT	121.38	-23.74	15.51	R	44		REAR OUTBOARD TRACK TO FLOOR	REF	121.38	23.29	15.48	-0.13	0.06	-0.01	0.14	AFT	121.25	23.29	15.47	L	90		* B * POINT ON REAR QUARTER PANEL	REF	209.85	-27.83	38.75	6.15	27.83	-38.75	48.20	AFT	216.00	0.00	0.00	R	90		* B * POINT ON REAR QUARTER PANEL	REF	209.65	27.09	39.11	0.31	-27.09	-39.11	47.58	AFT	210.16	0.00	0.00																																																																																								
L	43		REAR INBOARD TRACK TO FLOOR	REF	121.35	-5.23	14.63	-0.35	-0.49	-0.66	0.89																																																																																																																																																																																								
				AFT	121.00	-5.72	13.97					R	43		REAR INBOARD TRACK TO FLOOR	REF	121.40	5.29	14.61	-0.39	0.11	-0.48	0.43	AFT	121.01	5.40	14.13	L	44		REAR OUTBOARD TRACK TO FLOOR	REF	121.40	-23.32	15.46	-0.02	-0.42	0.05	0.42	AFT	121.38	-23.74	15.51	R	44		REAR OUTBOARD TRACK TO FLOOR	REF	121.38	23.29	15.48	-0.13	0.06	-0.01	0.14	AFT	121.25	23.29	15.47	L	90		* B * POINT ON REAR QUARTER PANEL	REF	209.85	-27.83	38.75	6.15	27.83	-38.75	48.20	AFT	216.00	0.00	0.00	R	90		* B * POINT ON REAR QUARTER PANEL	REF	209.65	27.09	39.11	0.31	-27.09	-39.11	47.58	AFT	210.16	0.00	0.00																																																																																																								
R	43		REAR INBOARD TRACK TO FLOOR	REF	121.40	5.29	14.61	-0.39	0.11	-0.48	0.43																																																																																																																																																																																								
				AFT	121.01	5.40	14.13					L	44		REAR OUTBOARD TRACK TO FLOOR	REF	121.40	-23.32	15.46	-0.02	-0.42	0.05	0.42	AFT	121.38	-23.74	15.51	R	44		REAR OUTBOARD TRACK TO FLOOR	REF	121.38	23.29	15.48	-0.13	0.06	-0.01	0.14	AFT	121.25	23.29	15.47	L	90		* B * POINT ON REAR QUARTER PANEL	REF	209.85	-27.83	38.75	6.15	27.83	-38.75	48.20	AFT	216.00	0.00	0.00	R	90		* B * POINT ON REAR QUARTER PANEL	REF	209.65	27.09	39.11	0.31	-27.09	-39.11	47.58	AFT	210.16	0.00	0.00																																																																																																																								
L	44		REAR OUTBOARD TRACK TO FLOOR	REF	121.40	-23.32	15.46	-0.02	-0.42	0.05	0.42																																																																																																																																																																																								
				AFT	121.38	-23.74	15.51					R	44		REAR OUTBOARD TRACK TO FLOOR	REF	121.38	23.29	15.48	-0.13	0.06	-0.01	0.14	AFT	121.25	23.29	15.47	L	90		* B * POINT ON REAR QUARTER PANEL	REF	209.85	-27.83	38.75	6.15	27.83	-38.75	48.20	AFT	216.00	0.00	0.00	R	90		* B * POINT ON REAR QUARTER PANEL	REF	209.65	27.09	39.11	0.31	-27.09	-39.11	47.58	AFT	210.16	0.00	0.00																																																																																																																																								
R	44		REAR OUTBOARD TRACK TO FLOOR	REF	121.38	23.29	15.48	-0.13	0.06	-0.01	0.14																																																																																																																																																																																								
				AFT	121.25	23.29	15.47					L	90		* B * POINT ON REAR QUARTER PANEL	REF	209.85	-27.83	38.75	6.15	27.83	-38.75	48.20	AFT	216.00	0.00	0.00	R	90		* B * POINT ON REAR QUARTER PANEL	REF	209.65	27.09	39.11	0.31	-27.09	-39.11	47.58	AFT	210.16	0.00	0.00																																																																																																																																																								
L	90		* B * POINT ON REAR QUARTER PANEL	REF	209.85	-27.83	38.75	6.15	27.83	-38.75	48.20																																																																																																																																																																																								
				AFT	216.00	0.00	0.00					R	90		* B * POINT ON REAR QUARTER PANEL	REF	209.65	27.09	39.11	0.31	-27.09	-39.11	47.58	AFT	210.16	0.00	0.00																																																																																																																																																																								
R	90		* B * POINT ON REAR QUARTER PANEL	REF	209.65	27.09	39.11	0.31	-27.09	-39.11	47.58																																																																																																																																																																																								
				AFT	210.16	0.00	0.00																																																																																																																																																																																												

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BOTTOM (UNITIZED) SIDED

* VALUE WAS TRANSLATED

TIME AND DATE OF REPORT: 17-JAN-01 07:57:44

PAGE 5

** POINT COORDINATES **

UNIT NO	SIDE	HWY NO	DESCRIPTION		INCHES			INCHES CHANGED																																																																																																																																																																																																											
					LONG X	LAT Y	VERT Z	X	Y	Z	D																																																																																																																																																																																																								
L	10		FOREMOST POINT ON FRAME	BEF	35.32	-21.49	22.08	12.42	0.62	2.75	12.74																																																																																																																																																																																																								
				AFT	47.74	-20.87	24.84					R	10		FOREMOST POINT ON FRAME	BEF	35.54	21.48	21.88	12.32	0.37	2.53	12.58	AFT	47.86	21.65	24.41	L	20		RAIL MID-POINT OF #10 & #30	BEF	48.70	-21.50	22.14	8.35	1.05	2.60	8.81	AFT	57.05	-20.45	24.74	R	20		RAIL MID-POINT OF #10 & #30	BEF	47.41	22.53	21.55	7.03	0.96	1.65	7.28	AFT	54.44	23.49	23.28	L	30		FORWARD OF SPRING POCKET	BEF	63.39	-19.50	24.15	5.52	3.28	4.20	7.67	AFT	69.82	-16.22	28.35	R	30		FORWARD OF SPRING POCKET	BEF	64.56	19.91	23.85	4.48	0.42	2.86	5.33	AFT	69.04	20.33	26.71	L	40		POINT AFT OF SPRING POCKET	BEF	73.02	-19.19	23.38	3.92	1.31	2.44	4.80	AFT	76.94	-17.98	25.79	R	40		POINT AFT OF SPRING POCKET	BEF	73.07	19.45	23.26	4.34	0.07	1.95	4.76	AFT	77.41	19.52	25.21	L	50		FLOOR PAN OUTBOARD OF RAIL/FRONT	BEF	87.27	-16.91	14.53	1.78	-0.90	-0.62	1.68	AFT	88.55	-15.81	13.91	R	50		FLOOR PAN OUTBOARD OF RAIL/FRONT	BEF	87.38	19.14	14.39	2.54	0.69	-0.71	2.73	AFT	89.92	19.83	13.68	L	60		MID POINT OF #40 & #70	BEF	84.33	-16.34	13.23	1.31	-0.58	0.25	1.45	AFT	86.64	-16.82	13.48	R	60		MID POINT OF #40 & #70	BEF	85.19	16.52	13.07	2.55	0.81	-0.02	2.60	AFT	87.65	17.03	13.05	L	70		AFT END OF RAIL	BEF	109.77	-16.06	13.20	0.86	-0.92	-0.47	1.18	AFT	110.33	-18.98	12.73	R	70		AFT END OF RAIL	BEF	109.55	16.24	13.06
R	10		FOREMOST POINT ON FRAME	BEF	35.54	21.48	21.88	12.32	0.37	2.53	12.58																																																																																																																																																																																																								
				AFT	47.86	21.65	24.41					L	20		RAIL MID-POINT OF #10 & #30	BEF	48.70	-21.50	22.14	8.35	1.05	2.60	8.81	AFT	57.05	-20.45	24.74	R	20		RAIL MID-POINT OF #10 & #30	BEF	47.41	22.53	21.55	7.03	0.96	1.65	7.28	AFT	54.44	23.49	23.28	L	30		FORWARD OF SPRING POCKET	BEF	63.39	-19.50	24.15	5.52	3.28	4.20	7.67	AFT	69.82	-16.22	28.35	R	30		FORWARD OF SPRING POCKET	BEF	64.56	19.91	23.85	4.48	0.42	2.86	5.33	AFT	69.04	20.33	26.71	L	40		POINT AFT OF SPRING POCKET	BEF	73.02	-19.19	23.38	3.92	1.31	2.44	4.80	AFT	76.94	-17.98	25.79	R	40		POINT AFT OF SPRING POCKET	BEF	73.07	19.45	23.26	4.34	0.07	1.95	4.76	AFT	77.41	19.52	25.21	L	50		FLOOR PAN OUTBOARD OF RAIL/FRONT	BEF	87.27	-16.91	14.53	1.78	-0.90	-0.62	1.68	AFT	88.55	-15.81	13.91	R	50		FLOOR PAN OUTBOARD OF RAIL/FRONT	BEF	87.38	19.14	14.39	2.54	0.69	-0.71	2.73	AFT	89.92	19.83	13.68	L	60		MID POINT OF #40 & #70	BEF	84.33	-16.34	13.23	1.31	-0.58	0.25	1.45	AFT	86.64	-16.82	13.48	R	60		MID POINT OF #40 & #70	BEF	85.19	16.52	13.07	2.55	0.81	-0.02	2.60	AFT	87.65	17.03	13.05	L	70		AFT END OF RAIL	BEF	109.77	-16.06	13.20	0.86	-0.92	-0.47	1.18	AFT	110.33	-18.98	12.73	R	70		AFT END OF RAIL	BEF	109.55	16.24	13.06	1.72	0.83	0.26	1.74	AFT	111.27	16.27	13.32								
L	20		RAIL MID-POINT OF #10 & #30	BEF	48.70	-21.50	22.14	8.35	1.05	2.60	8.81																																																																																																																																																																																																								
				AFT	57.05	-20.45	24.74					R	20		RAIL MID-POINT OF #10 & #30	BEF	47.41	22.53	21.55	7.03	0.96	1.65	7.28	AFT	54.44	23.49	23.28	L	30		FORWARD OF SPRING POCKET	BEF	63.39	-19.50	24.15	5.52	3.28	4.20	7.67	AFT	69.82	-16.22	28.35	R	30		FORWARD OF SPRING POCKET	BEF	64.56	19.91	23.85	4.48	0.42	2.86	5.33	AFT	69.04	20.33	26.71	L	40		POINT AFT OF SPRING POCKET	BEF	73.02	-19.19	23.38	3.92	1.31	2.44	4.80	AFT	76.94	-17.98	25.79	R	40		POINT AFT OF SPRING POCKET	BEF	73.07	19.45	23.26	4.34	0.07	1.95	4.76	AFT	77.41	19.52	25.21	L	50		FLOOR PAN OUTBOARD OF RAIL/FRONT	BEF	87.27	-16.91	14.53	1.78	-0.90	-0.62	1.68	AFT	88.55	-15.81	13.91	R	50		FLOOR PAN OUTBOARD OF RAIL/FRONT	BEF	87.38	19.14	14.39	2.54	0.69	-0.71	2.73	AFT	89.92	19.83	13.68	L	60		MID POINT OF #40 & #70	BEF	84.33	-16.34	13.23	1.31	-0.58	0.25	1.45	AFT	86.64	-16.82	13.48	R	60		MID POINT OF #40 & #70	BEF	85.19	16.52	13.07	2.55	0.81	-0.02	2.60	AFT	87.65	17.03	13.05	L	70		AFT END OF RAIL	BEF	109.77	-16.06	13.20	0.86	-0.92	-0.47	1.18	AFT	110.33	-18.98	12.73	R	70		AFT END OF RAIL	BEF	109.55	16.24	13.06	1.72	0.83	0.26	1.74	AFT	111.27	16.27	13.32																								
R	20		RAIL MID-POINT OF #10 & #30	BEF	47.41	22.53	21.55	7.03	0.96	1.65	7.28																																																																																																																																																																																																								
				AFT	54.44	23.49	23.28					L	30		FORWARD OF SPRING POCKET	BEF	63.39	-19.50	24.15	5.52	3.28	4.20	7.67	AFT	69.82	-16.22	28.35	R	30		FORWARD OF SPRING POCKET	BEF	64.56	19.91	23.85	4.48	0.42	2.86	5.33	AFT	69.04	20.33	26.71	L	40		POINT AFT OF SPRING POCKET	BEF	73.02	-19.19	23.38	3.92	1.31	2.44	4.80	AFT	76.94	-17.98	25.79	R	40		POINT AFT OF SPRING POCKET	BEF	73.07	19.45	23.26	4.34	0.07	1.95	4.76	AFT	77.41	19.52	25.21	L	50		FLOOR PAN OUTBOARD OF RAIL/FRONT	BEF	87.27	-16.91	14.53	1.78	-0.90	-0.62	1.68	AFT	88.55	-15.81	13.91	R	50		FLOOR PAN OUTBOARD OF RAIL/FRONT	BEF	87.38	19.14	14.39	2.54	0.69	-0.71	2.73	AFT	89.92	19.83	13.68	L	60		MID POINT OF #40 & #70	BEF	84.33	-16.34	13.23	1.31	-0.58	0.25	1.45	AFT	86.64	-16.82	13.48	R	60		MID POINT OF #40 & #70	BEF	85.19	16.52	13.07	2.55	0.81	-0.02	2.60	AFT	87.65	17.03	13.05	L	70		AFT END OF RAIL	BEF	109.77	-16.06	13.20	0.86	-0.92	-0.47	1.18	AFT	110.33	-18.98	12.73	R	70		AFT END OF RAIL	BEF	109.55	16.24	13.06	1.72	0.83	0.26	1.74	AFT	111.27	16.27	13.32																																								
L	30		FORWARD OF SPRING POCKET	BEF	63.39	-19.50	24.15	5.52	3.28	4.20	7.67																																																																																																																																																																																																								
				AFT	69.82	-16.22	28.35					R	30		FORWARD OF SPRING POCKET	BEF	64.56	19.91	23.85	4.48	0.42	2.86	5.33	AFT	69.04	20.33	26.71	L	40		POINT AFT OF SPRING POCKET	BEF	73.02	-19.19	23.38	3.92	1.31	2.44	4.80	AFT	76.94	-17.98	25.79	R	40		POINT AFT OF SPRING POCKET	BEF	73.07	19.45	23.26	4.34	0.07	1.95	4.76	AFT	77.41	19.52	25.21	L	50		FLOOR PAN OUTBOARD OF RAIL/FRONT	BEF	87.27	-16.91	14.53	1.78	-0.90	-0.62	1.68	AFT	88.55	-15.81	13.91	R	50		FLOOR PAN OUTBOARD OF RAIL/FRONT	BEF	87.38	19.14	14.39	2.54	0.69	-0.71	2.73	AFT	89.92	19.83	13.68	L	60		MID POINT OF #40 & #70	BEF	84.33	-16.34	13.23	1.31	-0.58	0.25	1.45	AFT	86.64	-16.82	13.48	R	60		MID POINT OF #40 & #70	BEF	85.19	16.52	13.07	2.55	0.81	-0.02	2.60	AFT	87.65	17.03	13.05	L	70		AFT END OF RAIL	BEF	109.77	-16.06	13.20	0.86	-0.92	-0.47	1.18	AFT	110.33	-18.98	12.73	R	70		AFT END OF RAIL	BEF	109.55	16.24	13.06	1.72	0.83	0.26	1.74	AFT	111.27	16.27	13.32																																																								
R	30		FORWARD OF SPRING POCKET	BEF	64.56	19.91	23.85	4.48	0.42	2.86	5.33																																																																																																																																																																																																								
				AFT	69.04	20.33	26.71					L	40		POINT AFT OF SPRING POCKET	BEF	73.02	-19.19	23.38	3.92	1.31	2.44	4.80	AFT	76.94	-17.98	25.79	R	40		POINT AFT OF SPRING POCKET	BEF	73.07	19.45	23.26	4.34	0.07	1.95	4.76	AFT	77.41	19.52	25.21	L	50		FLOOR PAN OUTBOARD OF RAIL/FRONT	BEF	87.27	-16.91	14.53	1.78	-0.90	-0.62	1.68	AFT	88.55	-15.81	13.91	R	50		FLOOR PAN OUTBOARD OF RAIL/FRONT	BEF	87.38	19.14	14.39	2.54	0.69	-0.71	2.73	AFT	89.92	19.83	13.68	L	60		MID POINT OF #40 & #70	BEF	84.33	-16.34	13.23	1.31	-0.58	0.25	1.45	AFT	86.64	-16.82	13.48	R	60		MID POINT OF #40 & #70	BEF	85.19	16.52	13.07	2.55	0.81	-0.02	2.60	AFT	87.65	17.03	13.05	L	70		AFT END OF RAIL	BEF	109.77	-16.06	13.20	0.86	-0.92	-0.47	1.18	AFT	110.33	-18.98	12.73	R	70		AFT END OF RAIL	BEF	109.55	16.24	13.06	1.72	0.83	0.26	1.74	AFT	111.27	16.27	13.32																																																																								
L	40		POINT AFT OF SPRING POCKET	BEF	73.02	-19.19	23.38	3.92	1.31	2.44	4.80																																																																																																																																																																																																								
				AFT	76.94	-17.98	25.79					R	40		POINT AFT OF SPRING POCKET	BEF	73.07	19.45	23.26	4.34	0.07	1.95	4.76	AFT	77.41	19.52	25.21	L	50		FLOOR PAN OUTBOARD OF RAIL/FRONT	BEF	87.27	-16.91	14.53	1.78	-0.90	-0.62	1.68	AFT	88.55	-15.81	13.91	R	50		FLOOR PAN OUTBOARD OF RAIL/FRONT	BEF	87.38	19.14	14.39	2.54	0.69	-0.71	2.73	AFT	89.92	19.83	13.68	L	60		MID POINT OF #40 & #70	BEF	84.33	-16.34	13.23	1.31	-0.58	0.25	1.45	AFT	86.64	-16.82	13.48	R	60		MID POINT OF #40 & #70	BEF	85.19	16.52	13.07	2.55	0.81	-0.02	2.60	AFT	87.65	17.03	13.05	L	70		AFT END OF RAIL	BEF	109.77	-16.06	13.20	0.86	-0.92	-0.47	1.18	AFT	110.33	-18.98	12.73	R	70		AFT END OF RAIL	BEF	109.55	16.24	13.06	1.72	0.83	0.26	1.74	AFT	111.27	16.27	13.32																																																																																								
R	40		POINT AFT OF SPRING POCKET	BEF	73.07	19.45	23.26	4.34	0.07	1.95	4.76																																																																																																																																																																																																								
				AFT	77.41	19.52	25.21					L	50		FLOOR PAN OUTBOARD OF RAIL/FRONT	BEF	87.27	-16.91	14.53	1.78	-0.90	-0.62	1.68	AFT	88.55	-15.81	13.91	R	50		FLOOR PAN OUTBOARD OF RAIL/FRONT	BEF	87.38	19.14	14.39	2.54	0.69	-0.71	2.73	AFT	89.92	19.83	13.68	L	60		MID POINT OF #40 & #70	BEF	84.33	-16.34	13.23	1.31	-0.58	0.25	1.45	AFT	86.64	-16.82	13.48	R	60		MID POINT OF #40 & #70	BEF	85.19	16.52	13.07	2.55	0.81	-0.02	2.60	AFT	87.65	17.03	13.05	L	70		AFT END OF RAIL	BEF	109.77	-16.06	13.20	0.86	-0.92	-0.47	1.18	AFT	110.33	-18.98	12.73	R	70		AFT END OF RAIL	BEF	109.55	16.24	13.06	1.72	0.83	0.26	1.74	AFT	111.27	16.27	13.32																																																																																																								
L	50		FLOOR PAN OUTBOARD OF RAIL/FRONT	BEF	87.27	-16.91	14.53	1.78	-0.90	-0.62	1.68																																																																																																																																																																																																								
				AFT	88.55	-15.81	13.91					R	50		FLOOR PAN OUTBOARD OF RAIL/FRONT	BEF	87.38	19.14	14.39	2.54	0.69	-0.71	2.73	AFT	89.92	19.83	13.68	L	60		MID POINT OF #40 & #70	BEF	84.33	-16.34	13.23	1.31	-0.58	0.25	1.45	AFT	86.64	-16.82	13.48	R	60		MID POINT OF #40 & #70	BEF	85.19	16.52	13.07	2.55	0.81	-0.02	2.60	AFT	87.65	17.03	13.05	L	70		AFT END OF RAIL	BEF	109.77	-16.06	13.20	0.86	-0.92	-0.47	1.18	AFT	110.33	-18.98	12.73	R	70		AFT END OF RAIL	BEF	109.55	16.24	13.06	1.72	0.83	0.26	1.74	AFT	111.27	16.27	13.32																																																																																																																								
R	50		FLOOR PAN OUTBOARD OF RAIL/FRONT	BEF	87.38	19.14	14.39	2.54	0.69	-0.71	2.73																																																																																																																																																																																																								
				AFT	89.92	19.83	13.68					L	60		MID POINT OF #40 & #70	BEF	84.33	-16.34	13.23	1.31	-0.58	0.25	1.45	AFT	86.64	-16.82	13.48	R	60		MID POINT OF #40 & #70	BEF	85.19	16.52	13.07	2.55	0.81	-0.02	2.60	AFT	87.65	17.03	13.05	L	70		AFT END OF RAIL	BEF	109.77	-16.06	13.20	0.86	-0.92	-0.47	1.18	AFT	110.33	-18.98	12.73	R	70		AFT END OF RAIL	BEF	109.55	16.24	13.06	1.72	0.83	0.26	1.74	AFT	111.27	16.27	13.32																																																																																																																																								
L	60		MID POINT OF #40 & #70	BEF	84.33	-16.34	13.23	1.31	-0.58	0.25	1.45																																																																																																																																																																																																								
				AFT	86.64	-16.82	13.48					R	60		MID POINT OF #40 & #70	BEF	85.19	16.52	13.07	2.55	0.81	-0.02	2.60	AFT	87.65	17.03	13.05	L	70		AFT END OF RAIL	BEF	109.77	-16.06	13.20	0.86	-0.92	-0.47	1.18	AFT	110.33	-18.98	12.73	R	70		AFT END OF RAIL	BEF	109.55	16.24	13.06	1.72	0.83	0.26	1.74	AFT	111.27	16.27	13.32																																																																																																																																																								
R	60		MID POINT OF #40 & #70	BEF	85.19	16.52	13.07	2.55	0.81	-0.02	2.60																																																																																																																																																																																																								
				AFT	87.65	17.03	13.05					L	70		AFT END OF RAIL	BEF	109.77	-16.06	13.20	0.86	-0.92	-0.47	1.18	AFT	110.33	-18.98	12.73	R	70		AFT END OF RAIL	BEF	109.55	16.24	13.06	1.72	0.83	0.26	1.74	AFT	111.27	16.27	13.32																																																																																																																																																																								
L	70		AFT END OF RAIL	BEF	109.77	-16.06	13.20	0.86	-0.92	-0.47	1.18																																																																																																																																																																																																								
				AFT	110.33	-18.98	12.73					R	70		AFT END OF RAIL	BEF	109.55	16.24	13.06	1.72	0.83	0.26	1.74	AFT	111.27	16.27	13.32																																																																																																																																																																																								
R	70		AFT END OF RAIL	BEF	109.55	16.24	13.06	1.72	0.83	0.26	1.74																																																																																																																																																																																																								
				AFT	111.27	16.27	13.32																																																																																																																																																																																																												

* VALUE WAS TRANSLATED

TIME AND DATE OF REPORT: 17-JAN-81 07:57:45

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** POINT COORDINATES **

UNIT NO	SIDE	PWT NO	DESCRIPTION		INCHES			INCHES CHANGED			
					LONG X	LAT Y	VERT Z	X	Y	Z	D
L	80		FLOOR ENH OUTBOARD OF AFT END OF RAIL	REF	110.37	-18.26	14.08				
				AFT	110.79	-18.96	13.66	0.42	-0.70	-0.42	0.92
R	80		FLOOR ENH OUTBOARD OF AFT END OF RAIL	REF	109.86	18.43	14.13				
				AFT	110.72	18.50	14.62	0.86	0.07	0.49	0.99
650			BLACK UNIT POINTS								
01	1		SEE COMMENTS PAGE	REF	89.32	-26.54	14.32				
				AFT	89.41	-27.27	14.33	0.09	-0.73	0.01	0.74
02	2		SEE COMMENTS PAGE	REF	147.97	-26.47	13.36				
				AFT	147.97	-26.47	13.36	0.00	0.00	0.00	0.00
03	3		SEE COMMENTS PAGE	REF	89.87	26.80	14.02				
				AFT							
04	4		SEE COMMENTS PAGE	REF	148.22	26.36	13.39				
				AFT	148.22	26.45	13.40	0.00	0.09	0.01	0.09
05	5		SEE COMMENTS PAGE	REF	111.62	-14.40	15.21				
				AFT	111.66	-15.04	14.85	0.04	-0.64	-0.36	0.74
06	6		SEE COMMENTS PAGE	REF	111.50	14.44	15.17				
				AFT	111.62	14.48	15.74	0.12	0.04	0.57	0.58
07	7		SEE COMMENTS PAGE	REF	87.43	0.94	19.80				
				AFT	91.69	8.89	17.63	4.46	-0.05	-2.15	4.95
08	8		SEE COMMENTS PAGE	REF	83.35	1.89	22.30				
				AFT							
09	9		SEE COMMENTS PAGE	REF	86.30	-28.42	14.61				
				AFT	86.28	-28.91	14.43	-0.01	-0.49	0.42	0.65
10	10		SEE COMMENTS PAGE	REF	129.86	-27.99	13.31				
				AFT	130.15	-28.37	13.47	0.29	-0.38	0.16	0.50
11	11		SEE COMMENTS PAGE	REF	69.37	-6.61	13.51				
				AFT	74.34	-7.22	14.71	4.97	-0.61	1.20	5.15

* VALUE WAS TRANSLATED

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TARGET DIMENSIONAL ANALYSIS REPORT

CRASH #: 12093

UNIT NO	SIDE	PWT NO	DESCRIPTION	** POINT COORDINATES **			INCHES CHANGED						
				LONG X	LAT Y	VERT Z	X	Y	Z	D			
				BEF	54.81	-4.85	36.34						
				AFT									
12	12		SEE COMMENTS PAGE	BEF	86.87	28.54	13.90						
				AFT	87.81	29.39	13.97	0.14	0.85	0.07	0.96		
13	13		SEE COMMENTS PAGE	BEF	129.75	28.57	13.30						
				AFT	129.81	28.69	13.42	0.06	0.12	0.12	0.18		
14	14		SEE COMMENTS PAGE	BEF	198.38	28.49	37.84						
				AFT	198.33	28.31	37.43	-0.03	-0.18	-0.41	0.45		
15	15		SEE COMMENTS PAGE	BEF	43.08	-21.52	18.82						
				AFT	50.21	-21.80	21.01	7.13	-8.28	2.19	7.46		
16	16		SEE COMMENTS PAGE	BEF	78.61	-15.14	13.14						
				AFT	81.71	-15.55	14.43	3.10	-8.41	1.29	3.38		
17	17		SEE COMMENTS PAGE	BEF	43.23	21.72	18.65						
				AFT	48.82	23.75	20.18	5.59	2.03	1.53	6.14		
18	18		SEE COMMENTS PAGE	BEF	78.92	15.08	13.81						
				AFT	83.40	15.21	14.01	4.48	0.13	1.08	4.59		
19	19		SEE COMMENTS PAGE										

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** SECTIONALS **

UNIT NO	SECTN NO	SIDE	REQ NO	NAME AND CRASH STATUS	X	Y	Z
640	51			DRIVER C/L SECTION LONG			
			1	BEFORE	106.66	-14.55	14.35
			1	AFTER	106.94	-15.35	13.17
			2	BEFORE	102.89	-14.55	13.98
			2	AFTER	104.98	-15.33	12.46
			3	BEFORE	98.26	-14.55	14.05
			3	AFTER	103.95	-15.59	12.12
			4	BEFORE	93.05	-14.55	14.47
			4	AFTER	100.34	-15.74	11.54
			5	BEFORE	85.86	-14.55	14.71
			5	AFTER	97.13	-15.94	11.13
			6	BEFORE	79.45	-14.55	18.30
			6	AFTER	95.77	-16.10	10.94
			7	BEFORE	76.98	-14.55	21.40
			7	AFTER	95.22	-16.20	11.22
			8	BEFORE	76.90	-14.55	24.34
			8	AFTER	95.00	-16.11	11.80
			9	BEFORE	76.35	-14.55	26.28
			9	AFTER	94.85	-16.11	12.16
			10	BEFORE	76.28	-14.55	27.31
			10	AFTER	94.17	-16.11	12.06
			11	BEFORE	75.65	-14.55	28.02
			11	AFTER	93.10	-15.91	11.97
			12	BEFORE	75.56	-14.55	33.05
			12	AFTER	90.77	-15.69	12.91
			13	BEFORE	76.23	-14.55	33.92
			13	AFTER	86.97	-15.16	14.51

** SECTIONS **

UNIT NO	SCIN NO	SIDE	SEQ NO	NAME AND CRASH STATUS	X	Y	INCHES Z
			14	BEFORE	76.31	-14.55	36.28
			14	AFTER	86.47	-15.05	14.87
			15	BEFORE	78.31	-14.55	36.81
			15	AFTER	85.43	-14.88	16.13
			16	AFTER	85.02	-14.75	16.99
			17	AFTER	83.28	-14.51	19.33
			18	AFTER	82.72	-14.44	20.05
			19	AFTER	81.68	-14.27	21.31
			20	AFTER	80.71	-14.05	22.97
			21	AFTER	81.05	-14.11	25.17
			22	AFTER	81.16	-14.15	25.80
			23	AFTER	81.06	-14.14	26.41
			24	AFTER	80.71	-14.08	27.79
			25	AFTER	80.72	-13.98	28.82
			26	AFTER	80.60	-13.85	29.09
			27	AFTER	80.06	-13.95	29.66
			28	AFTER	79.98	-14.20	32.79
			29	AFTER	80.01	-14.20	34.53
			30	AFTER	80.41	-14.15	35.05
			31	AFTER	80.75	-14.15	35.52
			32	AFTER	80.67	-14.11	37.15

641 31

VEHICLE C/L SECTION LOW

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** SECTIONALS **

UNIT NO	SCIN NO	SIZE	SEQ NO	NAME AND CRASH STATUS	X	Y	INCHES S
			1	BEFORE	107.37	0.00	18.17
			1	AFTER	101.56	-0.02	14.27
			2	BEFORE	102.50	0.00	18.17
			2	AFTER	100.73	0.03	14.17
			3	BEFORE	95.90	0.00	18.54
			3	AFTER	99.35	0.25	13.96
			4	BEFORE	93.35	0.00	19.03
			4	AFTER	94.75	0.06	13.85
			5	BEFORE	88.87	0.00	19.68
			5	AFTER	90.23	0.17	13.50
			6	BEFORE	85.46	0.00	19.70
			6	AFTER	97.77	0.06	12.99
			7	BEFORE	78.21	0.00	20.39
			7	AFTER	97.17	-0.20	12.37
			8	BEFORE	77.08	0.00	21.17
			8	AFTER	97.13	-0.34	12.94
			9	BEFORE	76.76	0.00	22.51
			9	AFTER	97.03	-0.13	13.74
			10	BEFORE	76.80	0.00	24.43
			10	AFTER	96.76	0.02	14.92
			11	BEFORE	75.38	0.00	25.44
			11	AFTER	96.18	-0.24	14.60
			12	BEFORE	74.99	0.00	29.98
			12	AFTER	85.74	-0.25	14.54
			13	BEFORE	74.94	0.00	33.87
			13	AFTER	94.48	-0.14	14.59
			14	BEFORE	75.00	0.00	37.01
			14	AFTER	93.27	-0.06	15.13

** SECTIONALS **

LEFT NO	SCEN NO	SIDE	RFD NO	NAME AND CRASH SITUATION	X	Y	INCHES Z
	15	AFTER			93.03	-8.08	16.87
	16	AFTER			92.69	-8.08	17.08
	17	AFTER			91.78	-8.28	17.52
	18	AFTER			91.30	-8.10	17.88
	19	AFTER			90.83	-8.10	18.26
	20	AFTER			84.74	0.22	20.72
	21	AFTER			83.58	0.17	21.19
	22	AFTER			82.95	0.17	22.15
	23	AFTER			82.93	0.21	22.57
	24	AFTER			83.06	0.22	23.27
	25	AFTER			83.09	0.15	23.61
	26	AFTER			82.95	0.19	23.75
	27	AFTER			82.60	0.20	23.91
	28	AFTER			82.44	0.19	24.64
	29	AFTER			82.30	0.24	25.35
	30	AFTER			82.13	0.22	25.51
	31	AFTER			88.93	0.20	26.30
	32	AFTER			80.43	0.16	26.61
	33	AFTER			80.26	0.15	26.99
	34	AFTER			79.26	0.24	29.81
	35	AFTER			78.42	0.09	33.52

** SECTIONS **

UNIT NO	SECT NO	SIDE	SEQ NO	NAME AND CRASH STATUS	INCHES		
					X	Y	Z
			36	AFTER	77.70	-0.01	36.75
			37	AFTER	77.73	-0.03	37.84

642 81

PASSENGER C/L SECT/LOGS

	1	BEFORE	106.48	14.68	14.32
	1	AFTER	107.85	15.00	13.60
	2	BEFORE	98.44	14.65	13.94
	2	AFTER	102.51	18.66	13.78
	3	BEFORE	94.79	14.65	14.15
	3	AFTER	97.53	16.11	10.88
	4	BEFORE	85.74	14.65	14.61
	4	AFTER	96.52	16.12	10.68
	5	BEFORE	77.06	14.65	21.15
	5	AFTER	96.27	16.28	11.16
	6	BEFORE	76.81	14.65	23.85
	6	AFTER	96.16	16.35	11.76
	7	BEFORE	75.31	14.65	25.04
	7	AFTER	95.49	16.20	11.72
	8	BEFORE	75.32	14.68	29.70
	8	AFTER	92.35	18.87	12.57
	9	BEFORE	76.13	14.65	34.31
	9	AFTER	89.64	15.55	13.94
	10	BEFORE	75.15	14.65	38.10
	10	AFTER	88.83	15.46	15.18
	11	AFTER	86.99	15.27	16.17
	12	AFTER	86.76	15.25	16.68

** SECTIONALS **

UNIT NO	SECTN NO	SIDE	SEQ NO	WORK AND CRASH STATUS	X	Y	INCHES Z
			13	AFTER	84.03	14.91	19.22
			14	AFTER	81.95	14.69	21.67
			15	AFTER	81.40	14.70	22.90
			16	AFTER	81.32	14.57	23.46
			17	AFTER	81.48	14.60	24.51
			18	AFTER	81.82	14.60	25.03
			19	AFTER	81.25	14.48	25.48
			20	AFTER	80.17	14.70	25.90
			21	AFTER	79.91	14.61	26.03
			22	AFTER	79.73	14.53	26.67
			23	AFTER	79.26	14.55	28.50
			24	AFTER	78.83	14.56	32.87
			25	AFTER	78.81	14.52	34.23
			26	AFTER	77.80	14.73	37.04
			27	AFTER	77.73	14.72	38.51

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TARGET DIMENSIONAL ANALYSIS REPORT

CRASH #: 12093

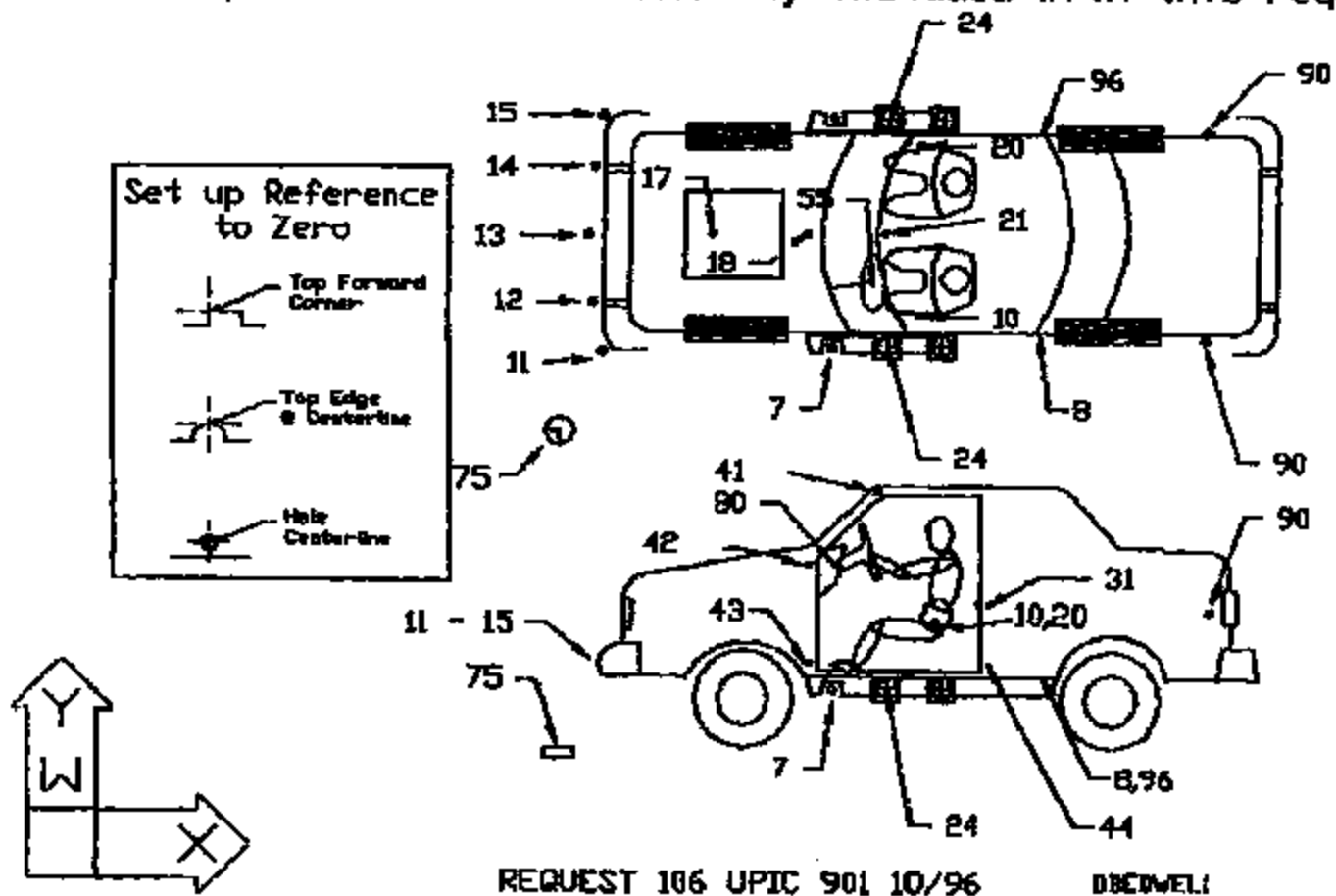
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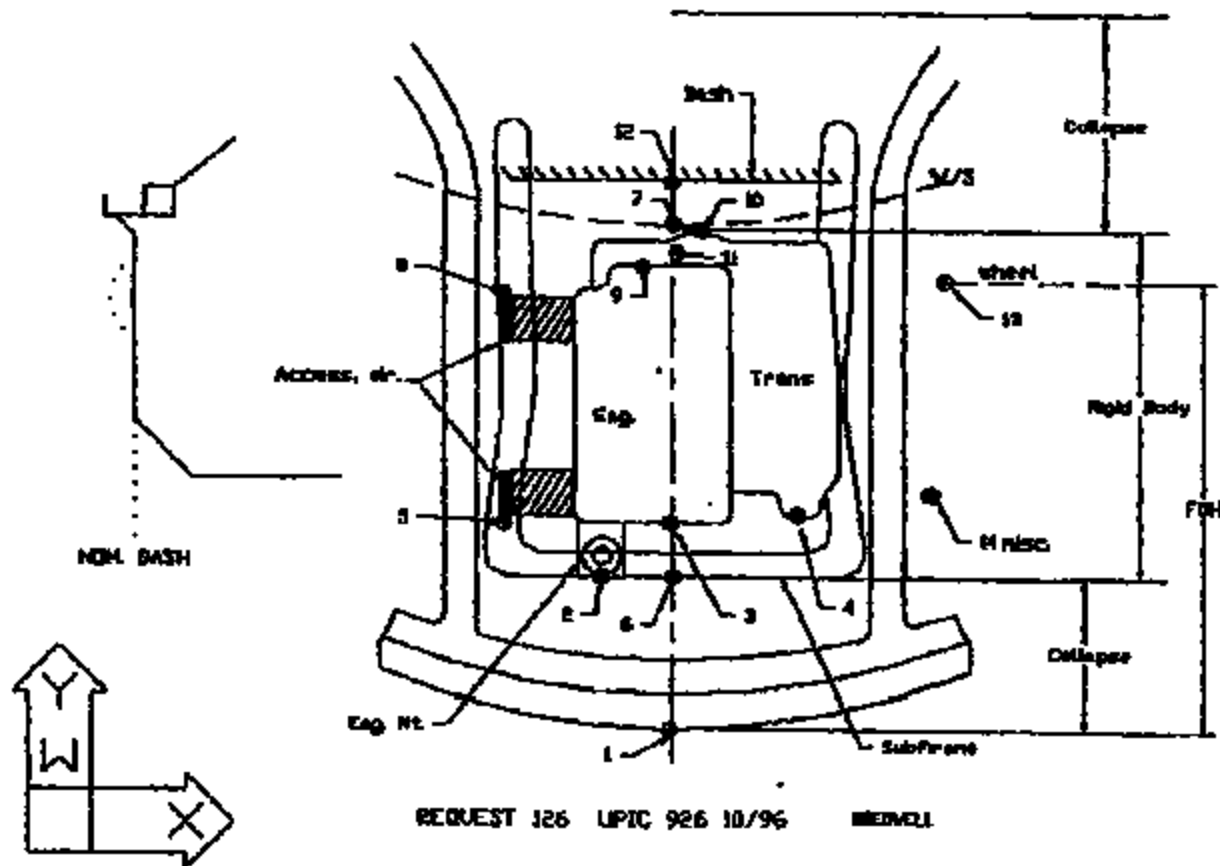
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SET UP CAR FRONT REQUEST 106
 UNIT 70 POINTS (10,20 PRE CRASH ONLY), 75
 UNIT 71 POINTS 07 LEFT & RIGHT
 UNIT 124 POINTS 8,11-15,17,18,21,55,80,96
 UNIT 125 POINTS 24,31,90 LEFT & RIGHT
 UNIT 75 POINTS 41-44 LEFT & RIGHT, PRE CRASH ONLY
 * Request 140 is automatically included with this request



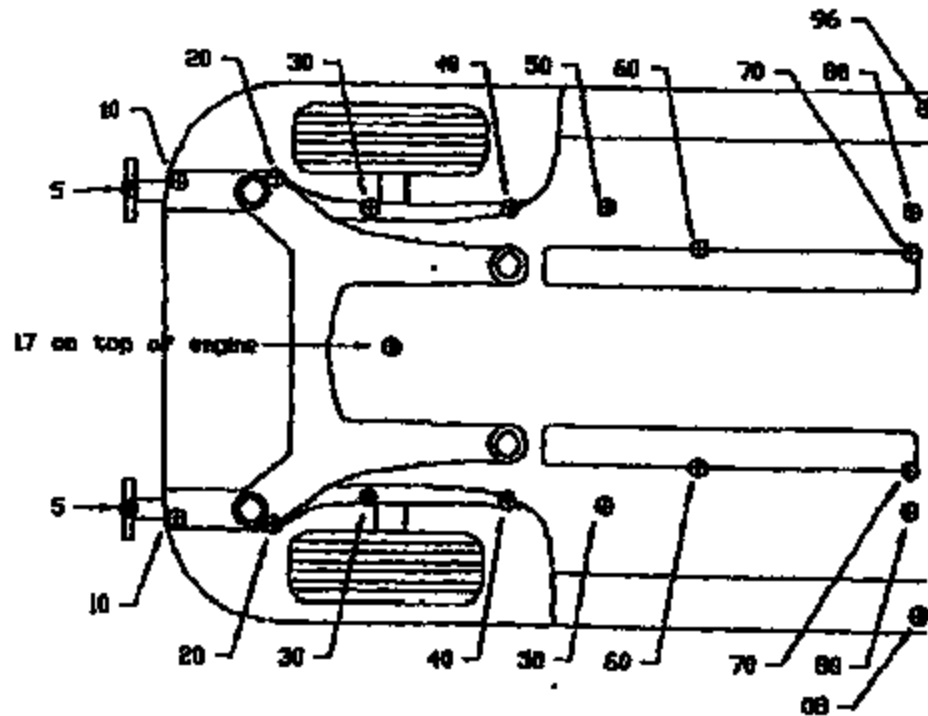
REQUEST 106 UPIC 901 10/96 DBEDWEL

COLLAPSE DISTANCE POINTS FOR COMPETITOR VEHICLES REQUEST 126
 UNIT 156 POINTS 1-14 PRE CRASH ONLY



REQUEST 126 UPIC 926 10/96 MEMVLI

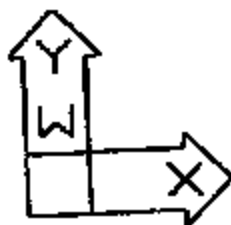
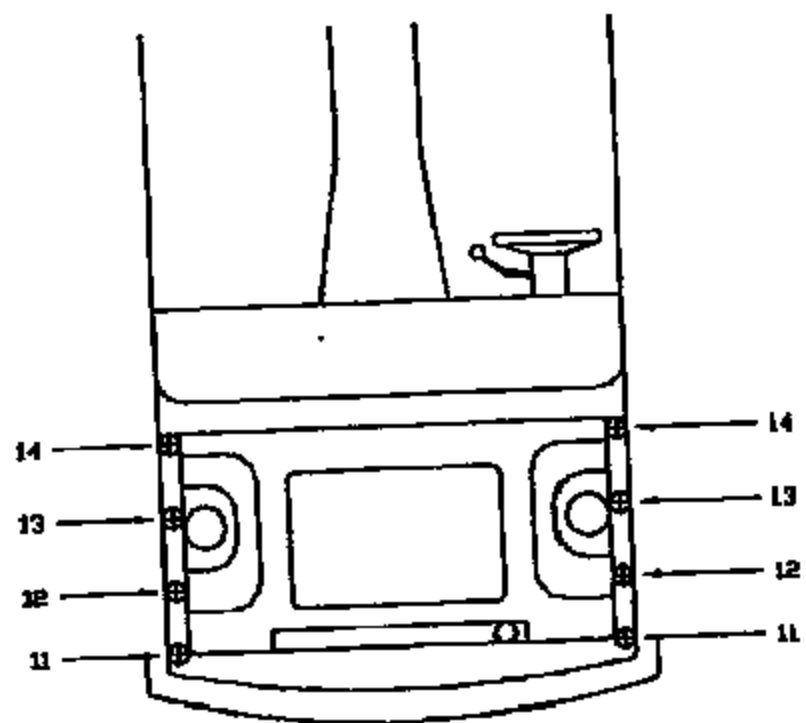
UNITIZED STANDARD BITTON CAR REQUEST 132
UNIT 124 POINTS 09,17,96
UNIT 141 POINTS 5,10,20,30,40,50,60,70,80 LEFT & RIGHT



REQUEST 132 UPIC 904 18/96

DBEDWELL

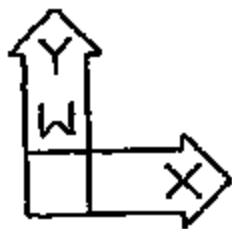
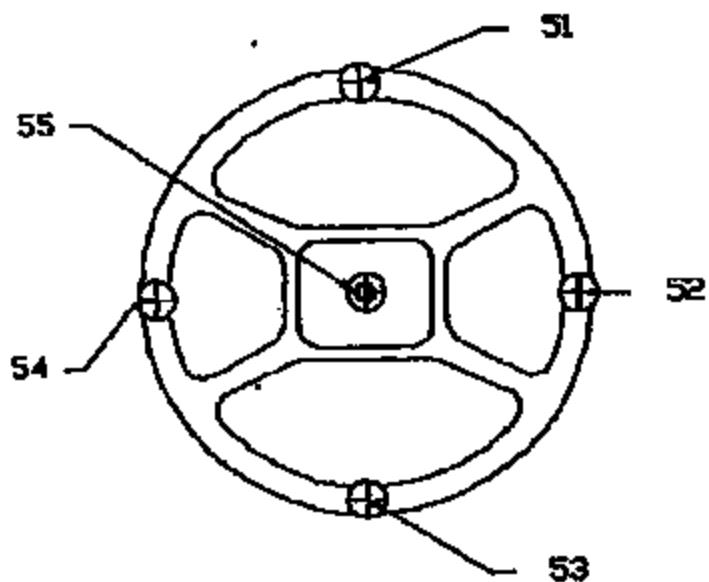
SHOT-GUNS REQUEST 142
UNIT 125 POINTS 11-14 LEFT & RIGHT



REQUEST 142 UPIC 909 10/96

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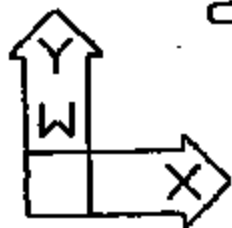
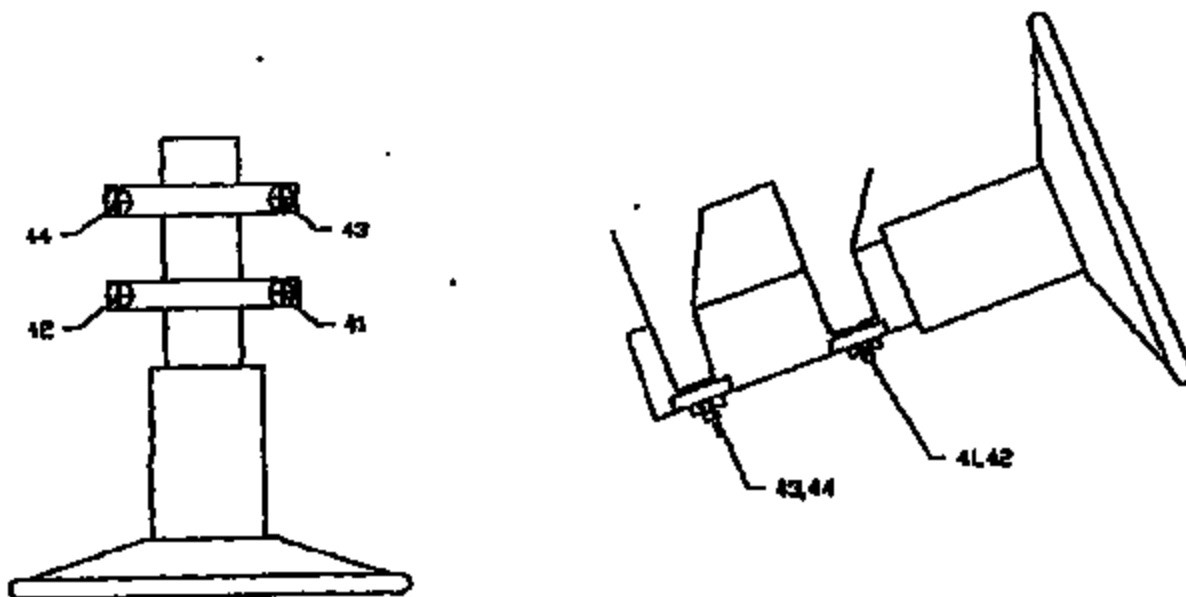
STEERING WHEEL PERIPHERY REQUEST 150
UNIT 124 POINTS 51-53



REQUEST 150 UPIC 912 10/96

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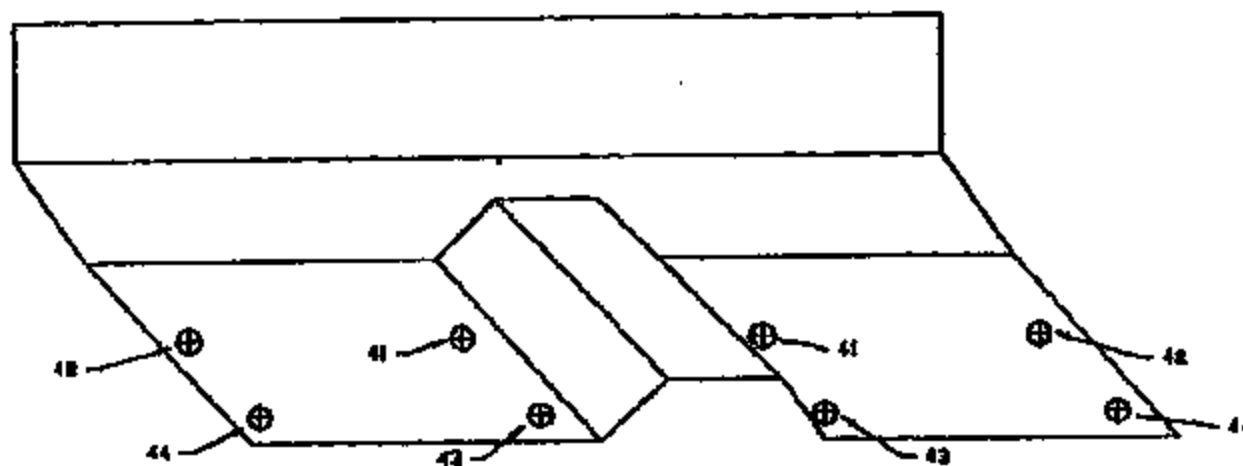
STEERING COLUMN MOUNTS REQUEST 153
UNIT 124 POINTS 41-44



REQUEST 153 UPIC 913 10/96

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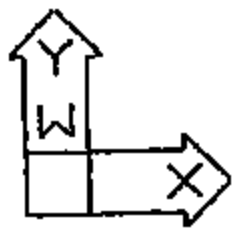
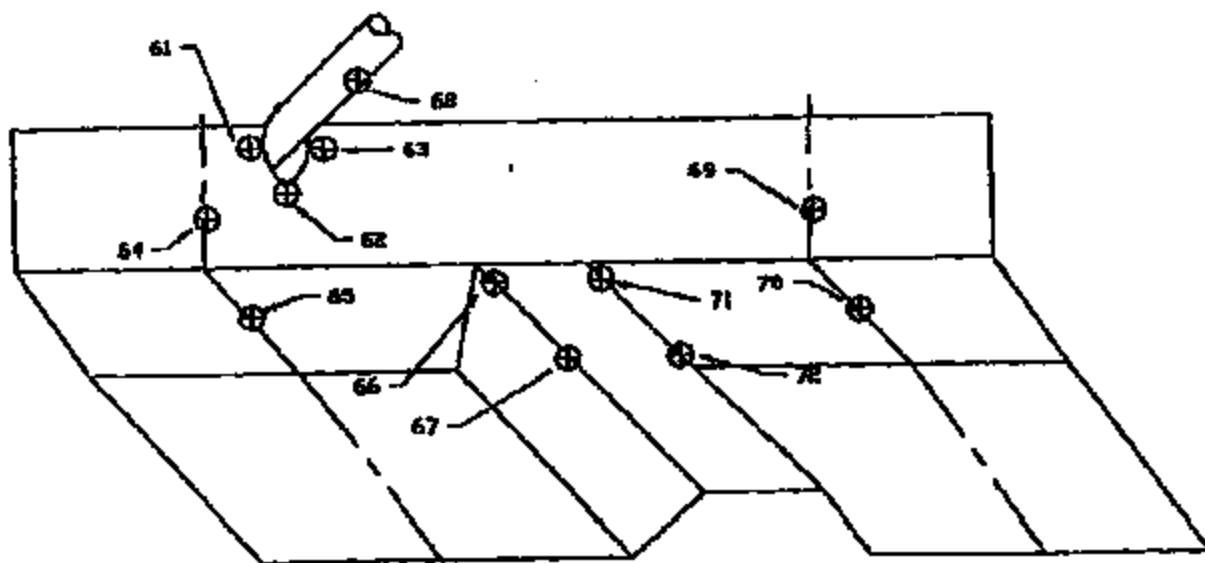
SEAT TRACK TO FLOOR HEIGHTS REQUEST 156
UNIT 125 POINTS 40-44 LEFT AND RIGHT



REQUEST 156 UPIC 916 10/96

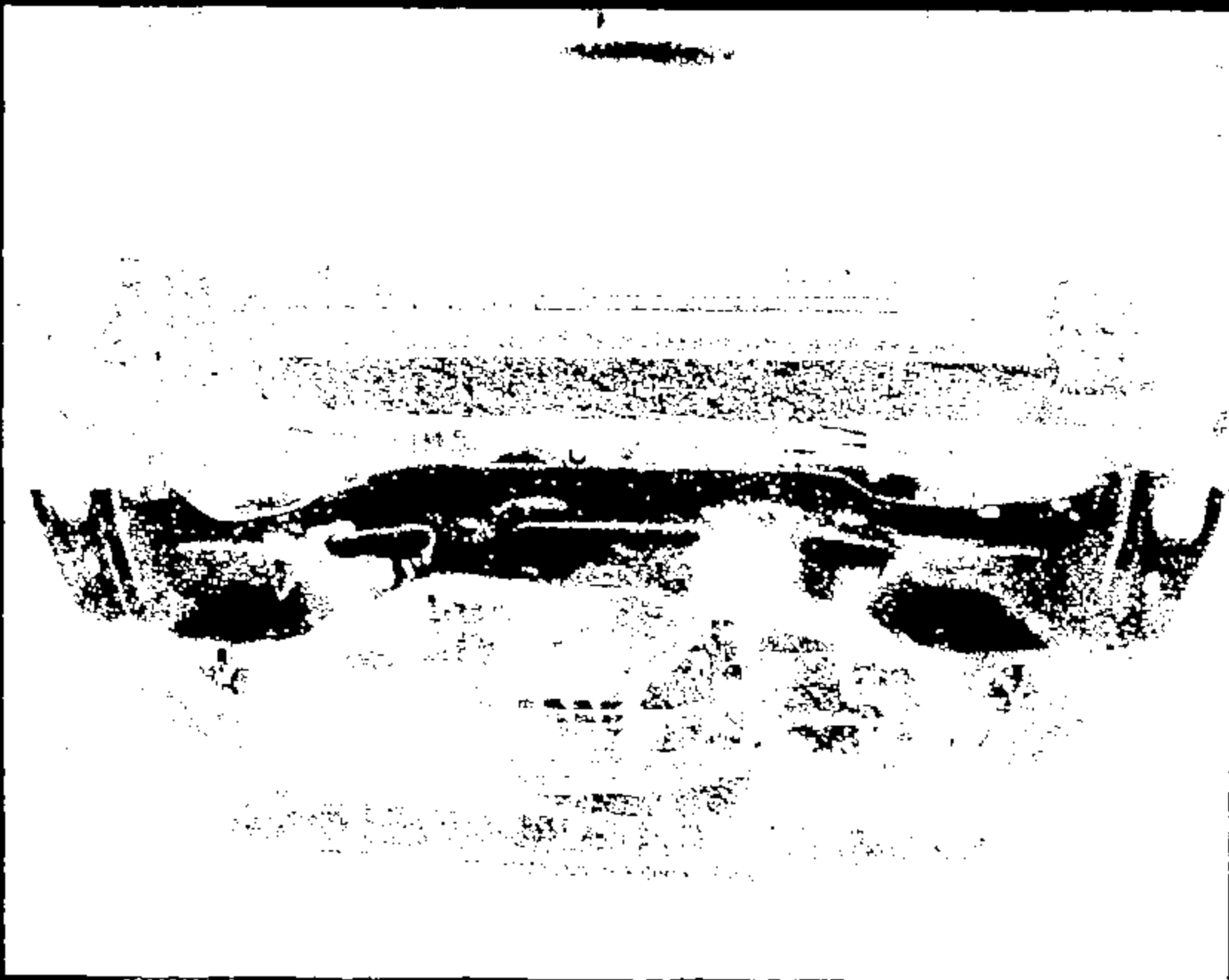
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FLOORPLAN POINTS REQUEST 162
UNIT 124 POINTS 61-72



REQUEST 162 UPIC 919 10/86

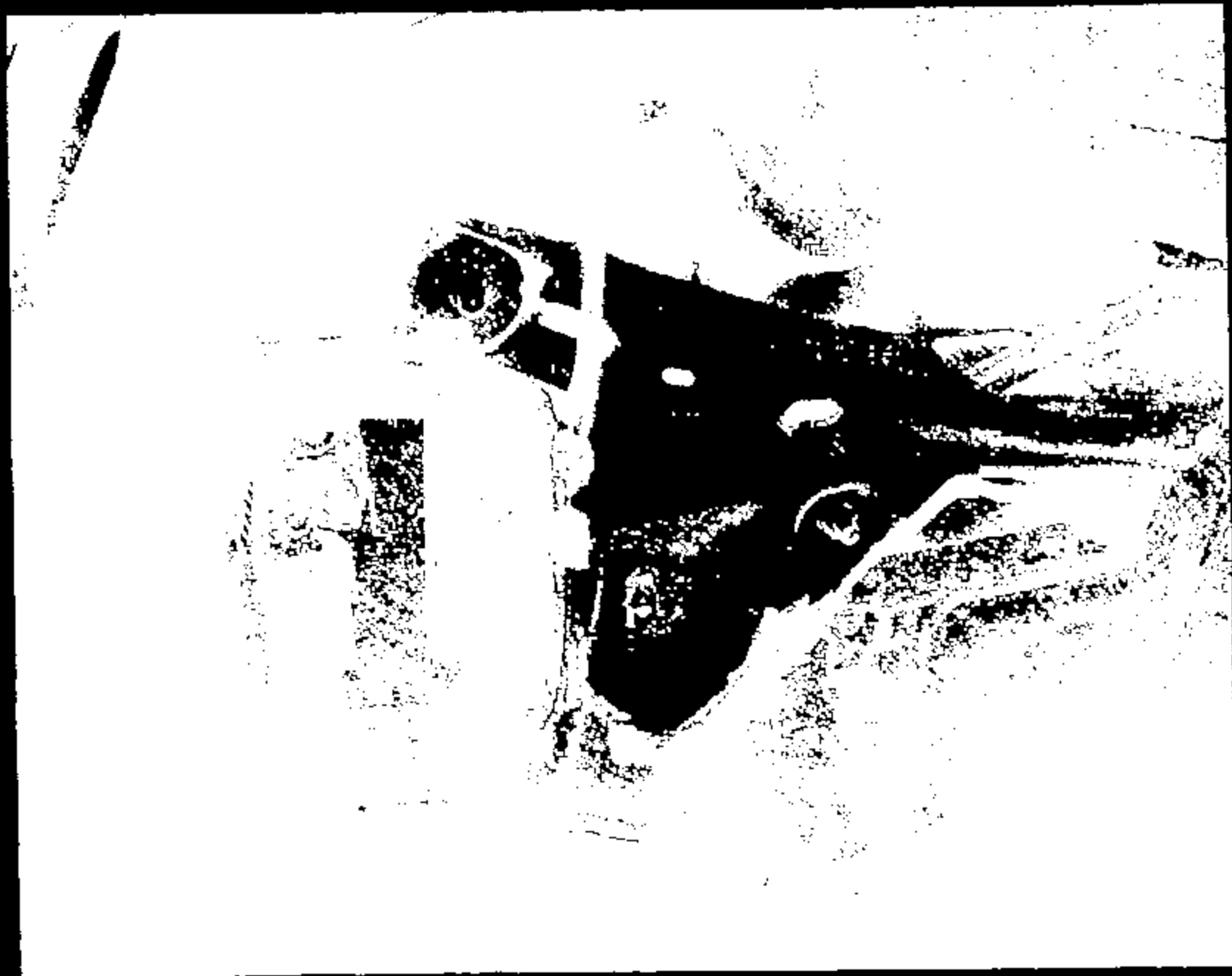
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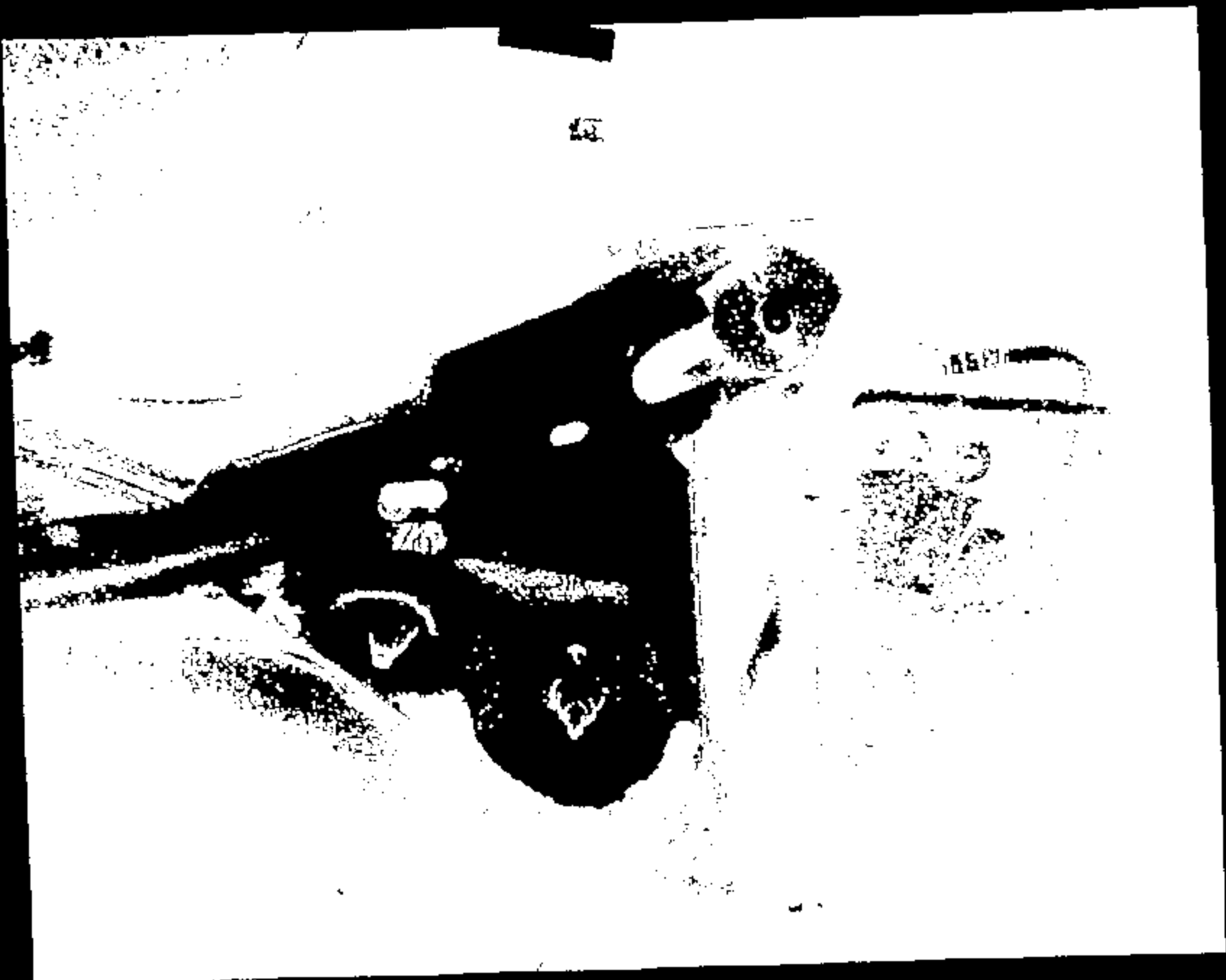


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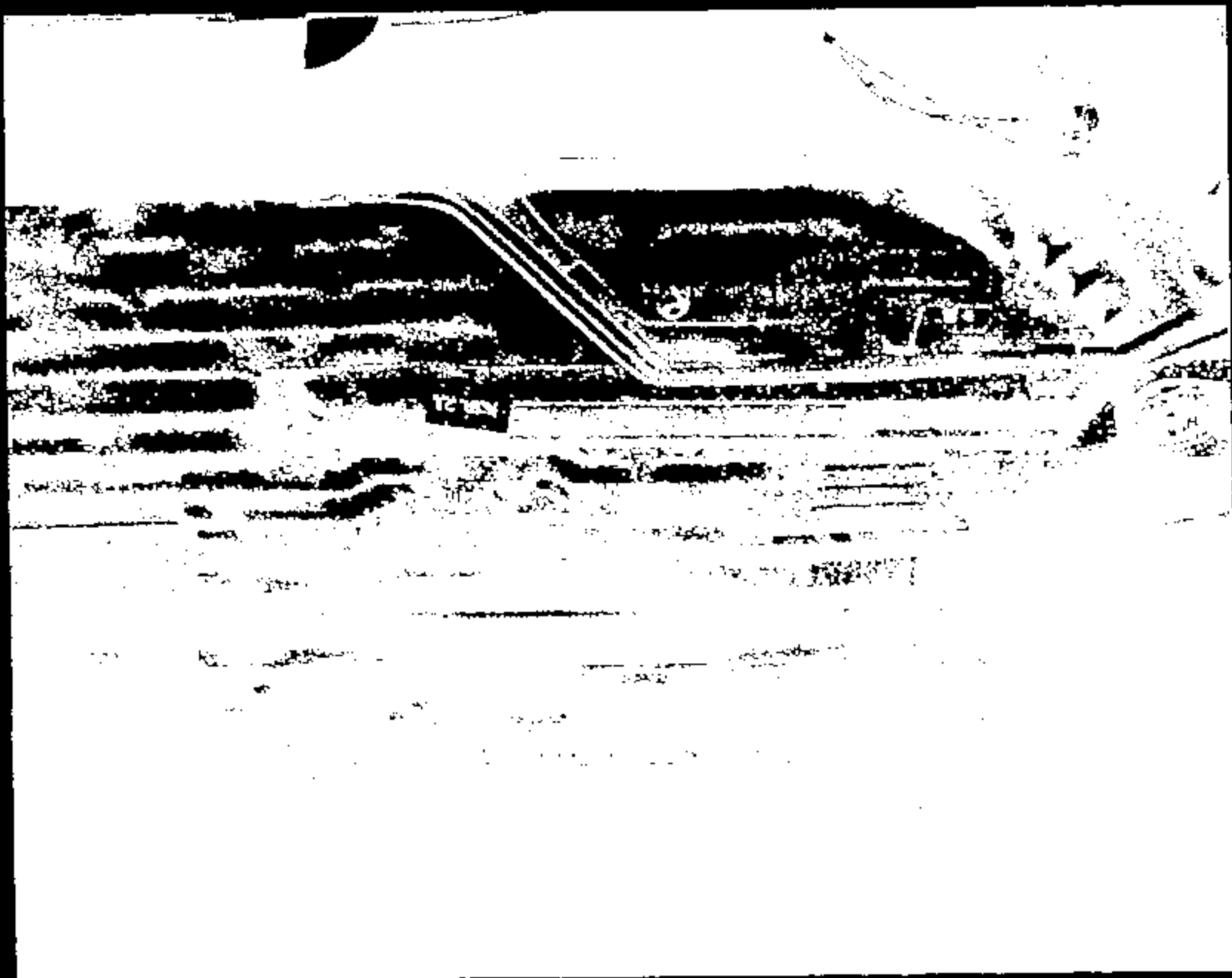
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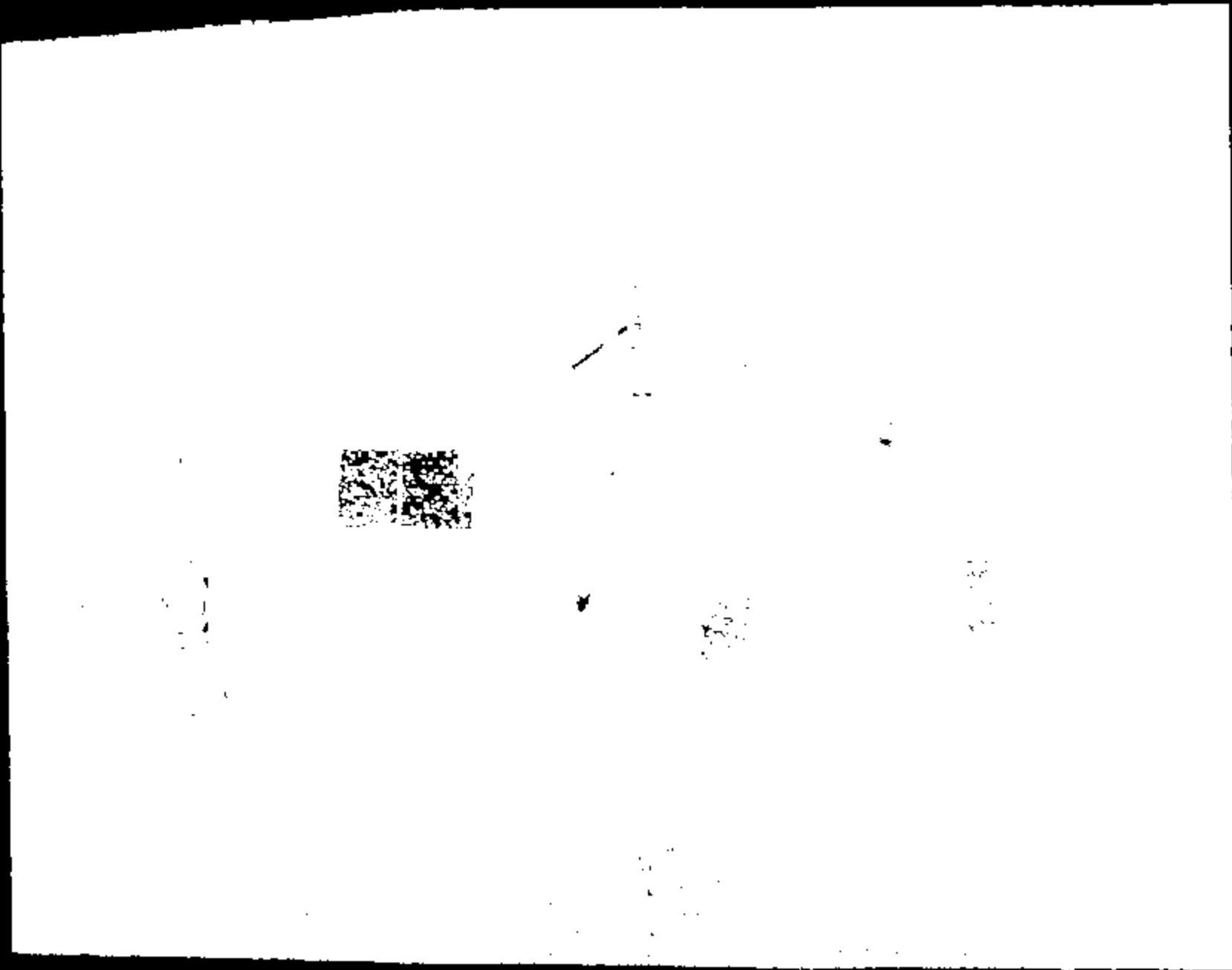
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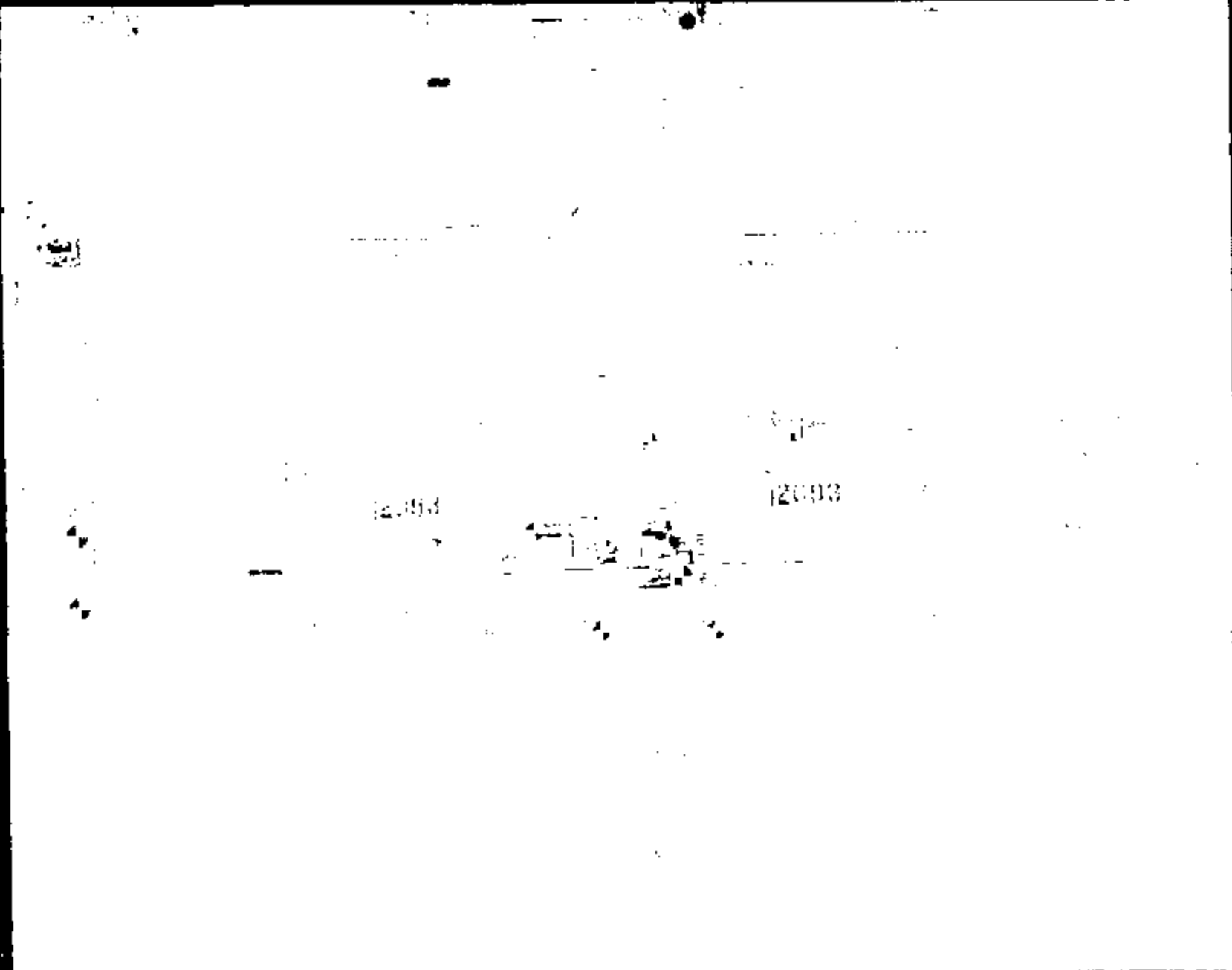
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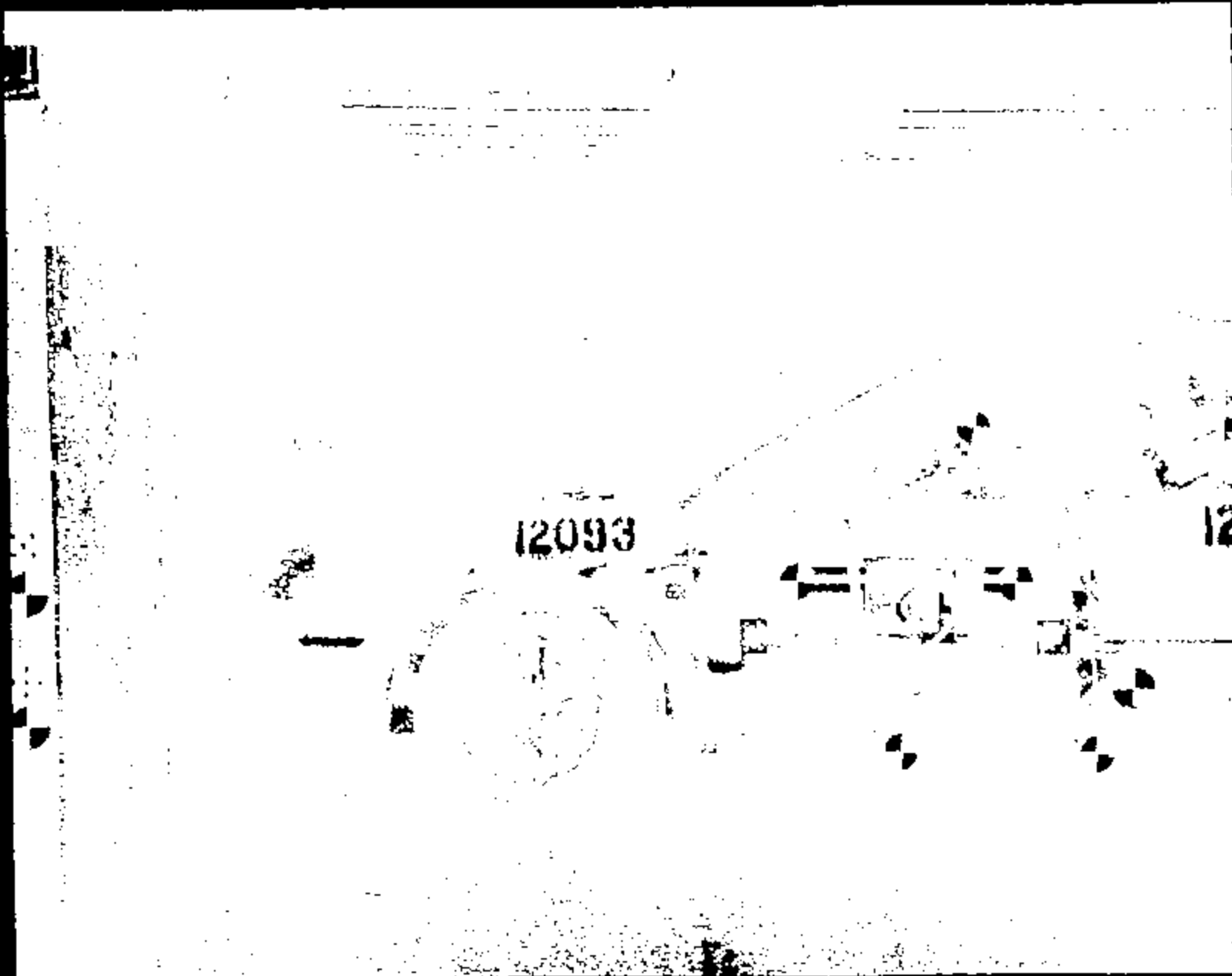
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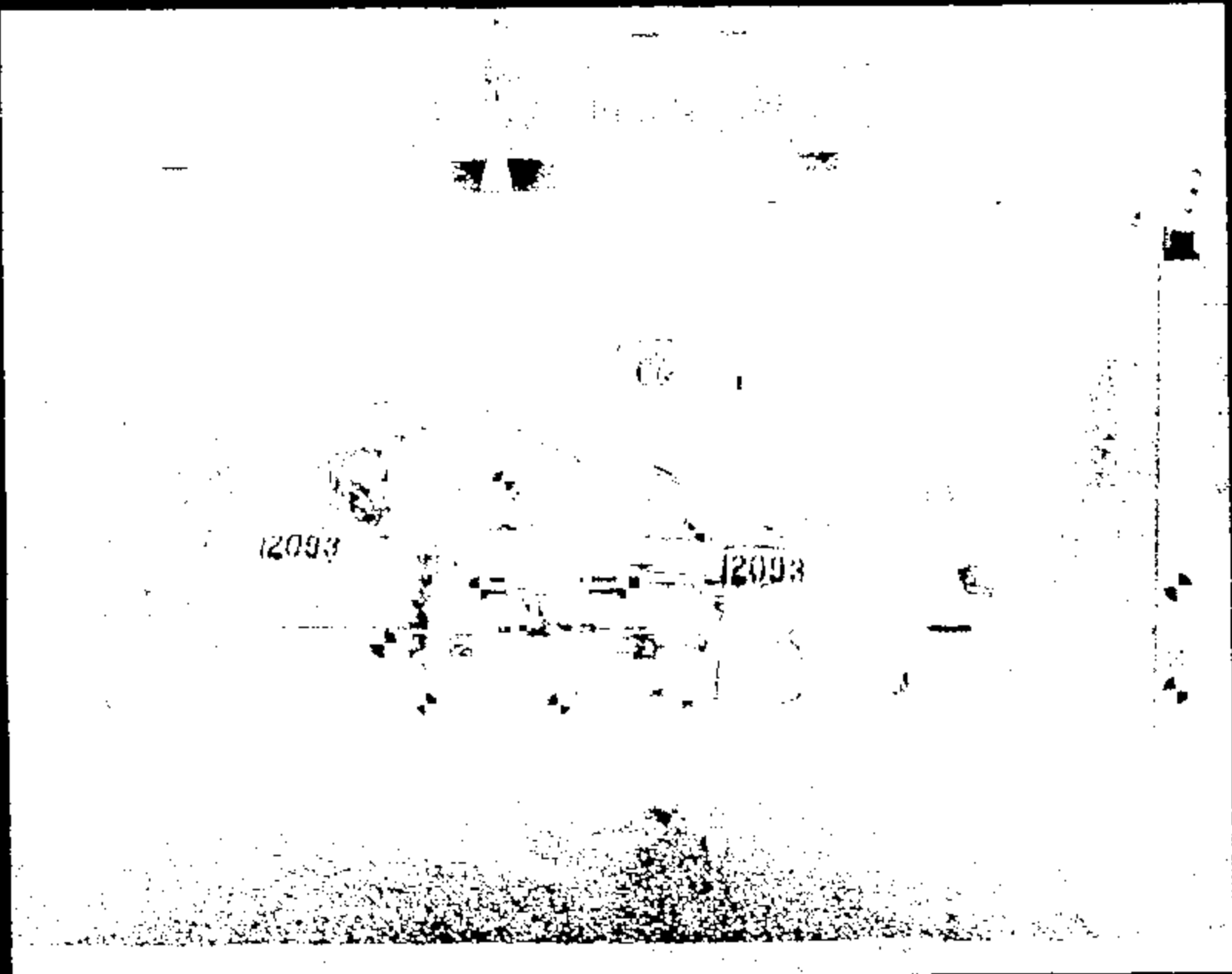
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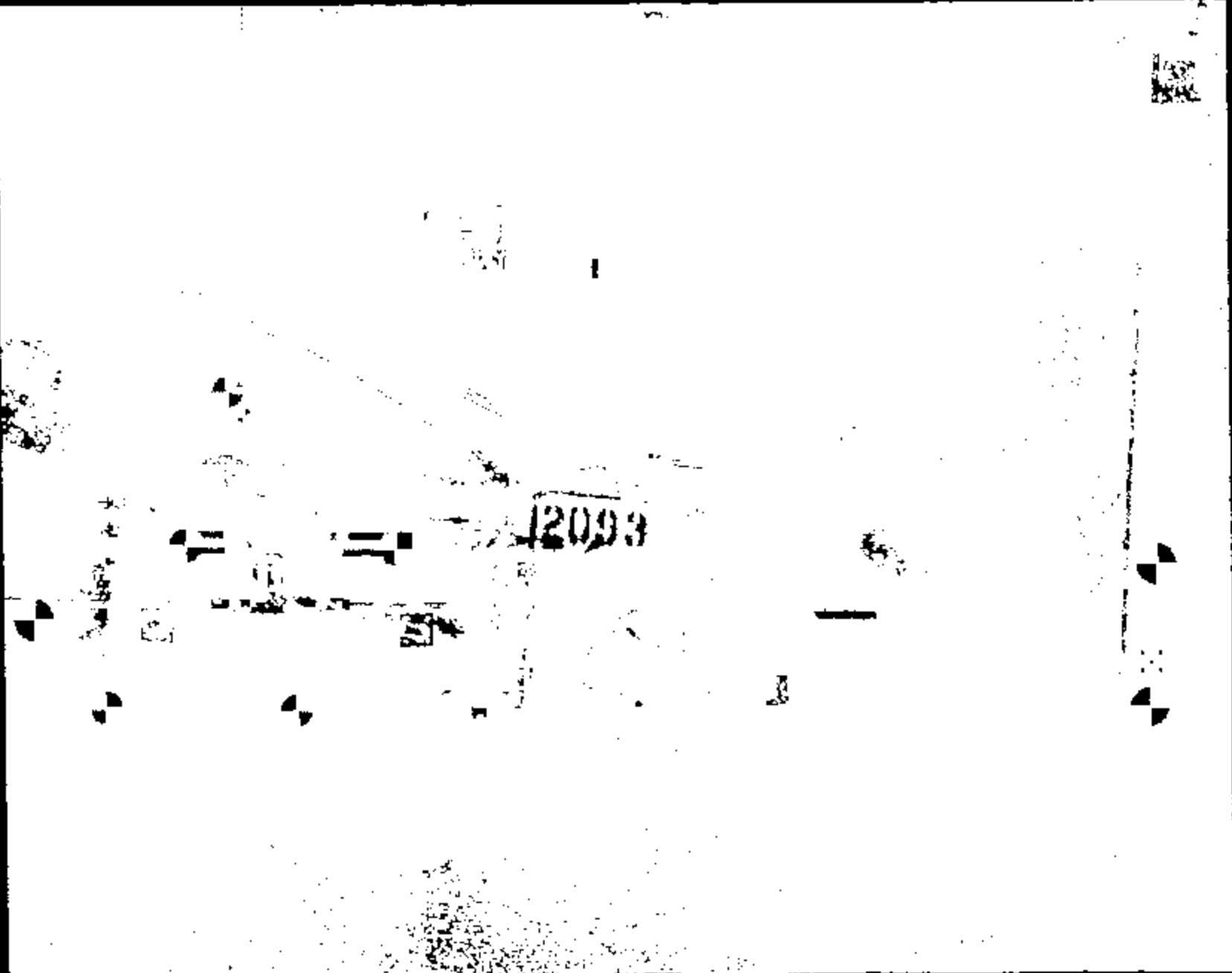


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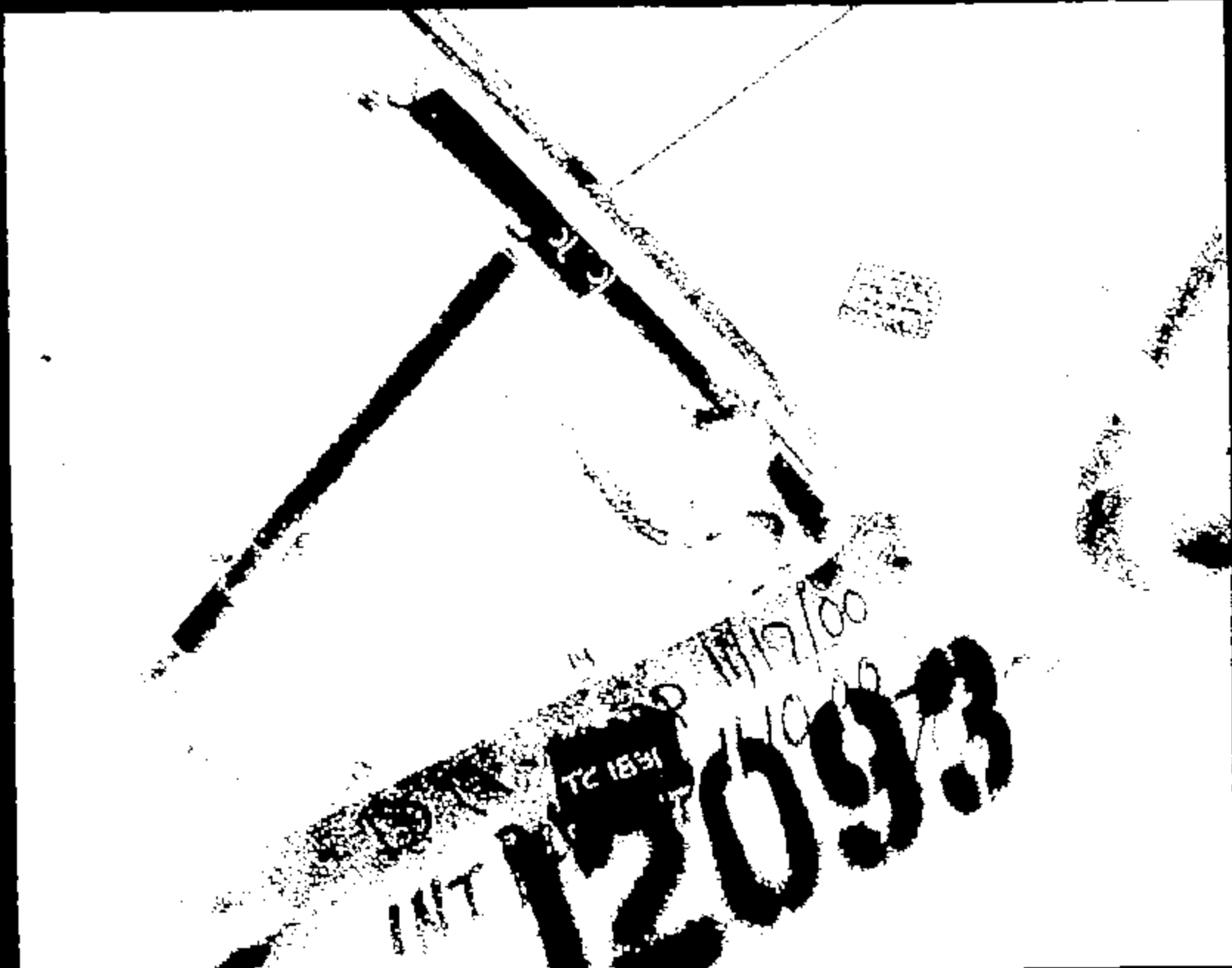
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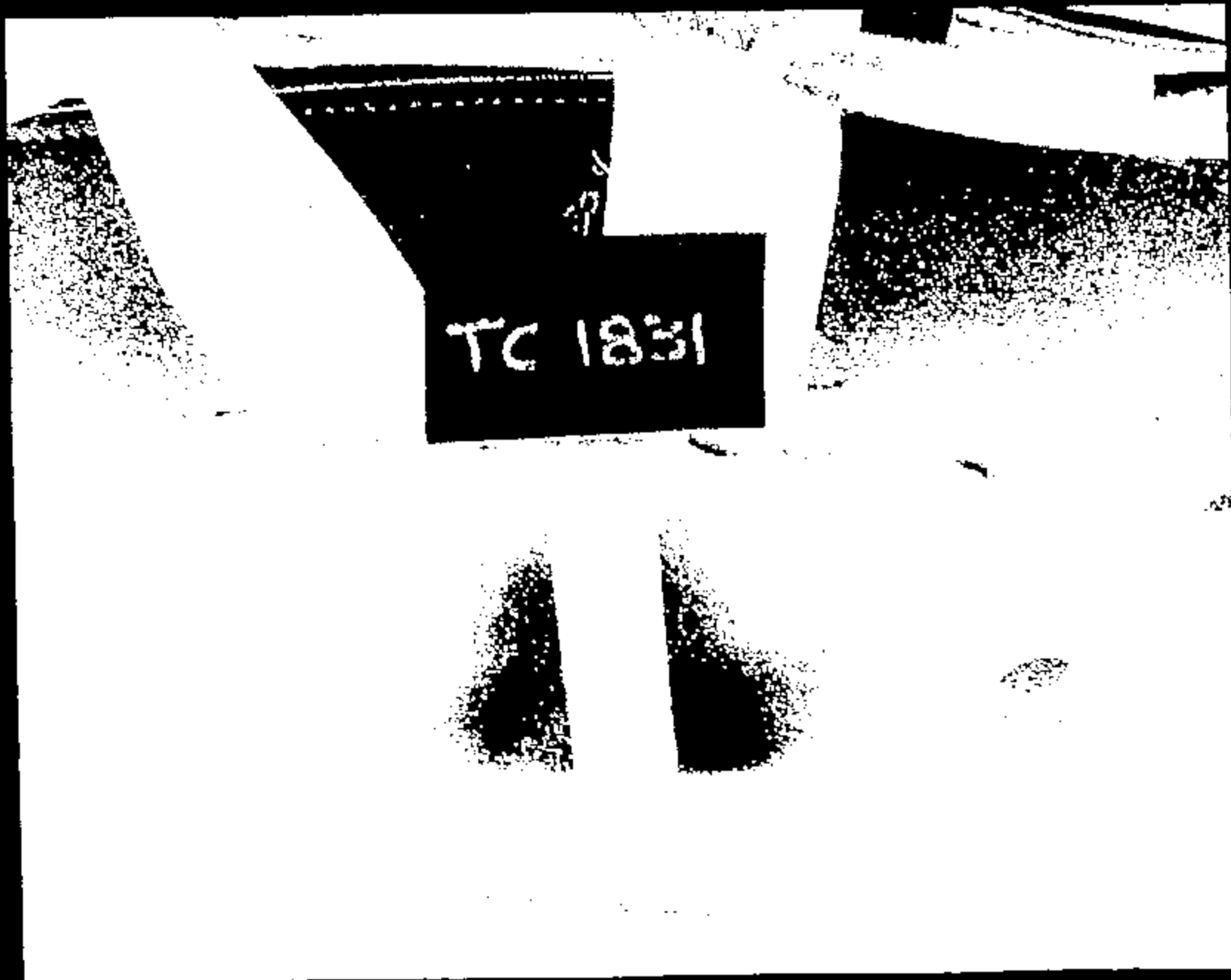
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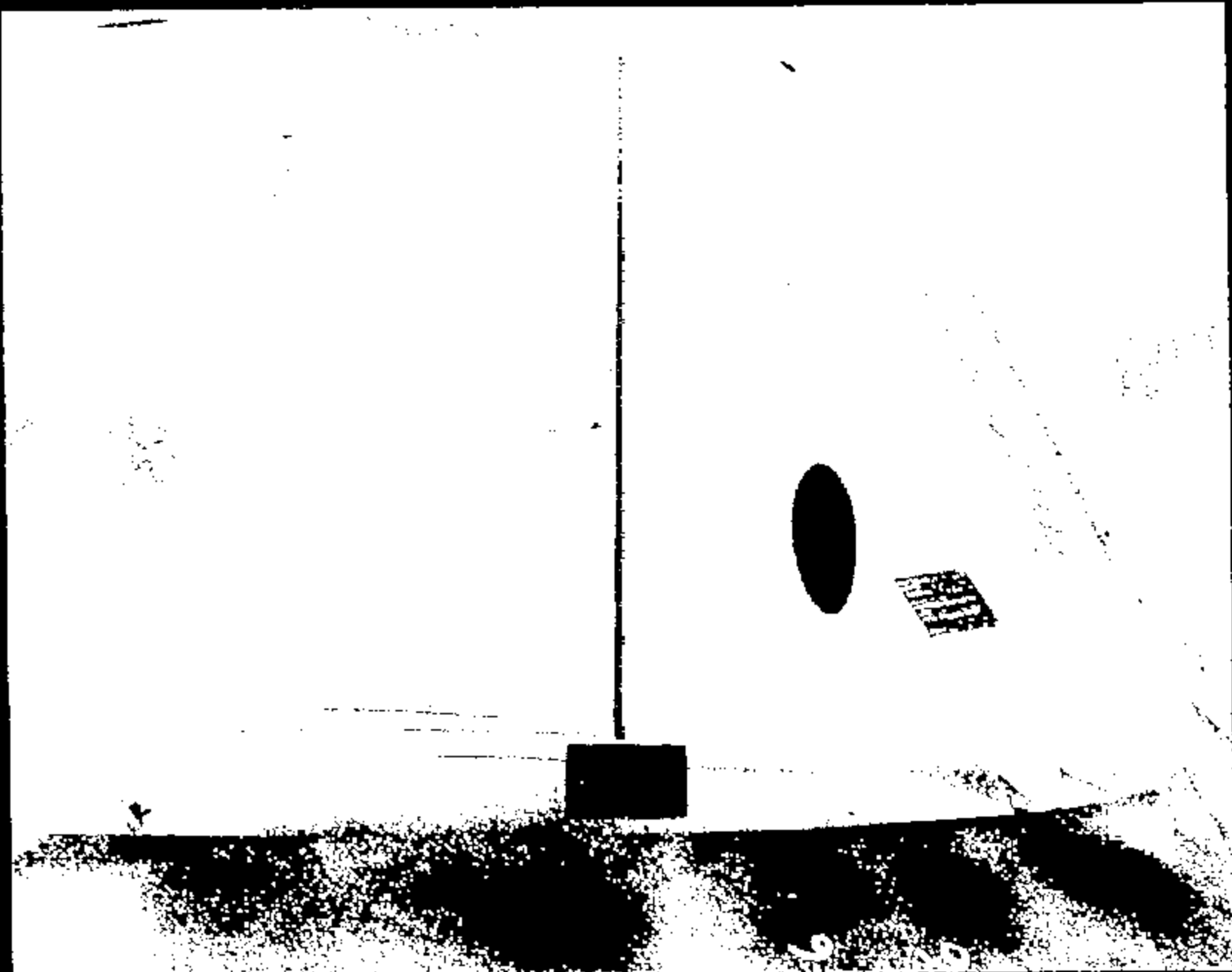
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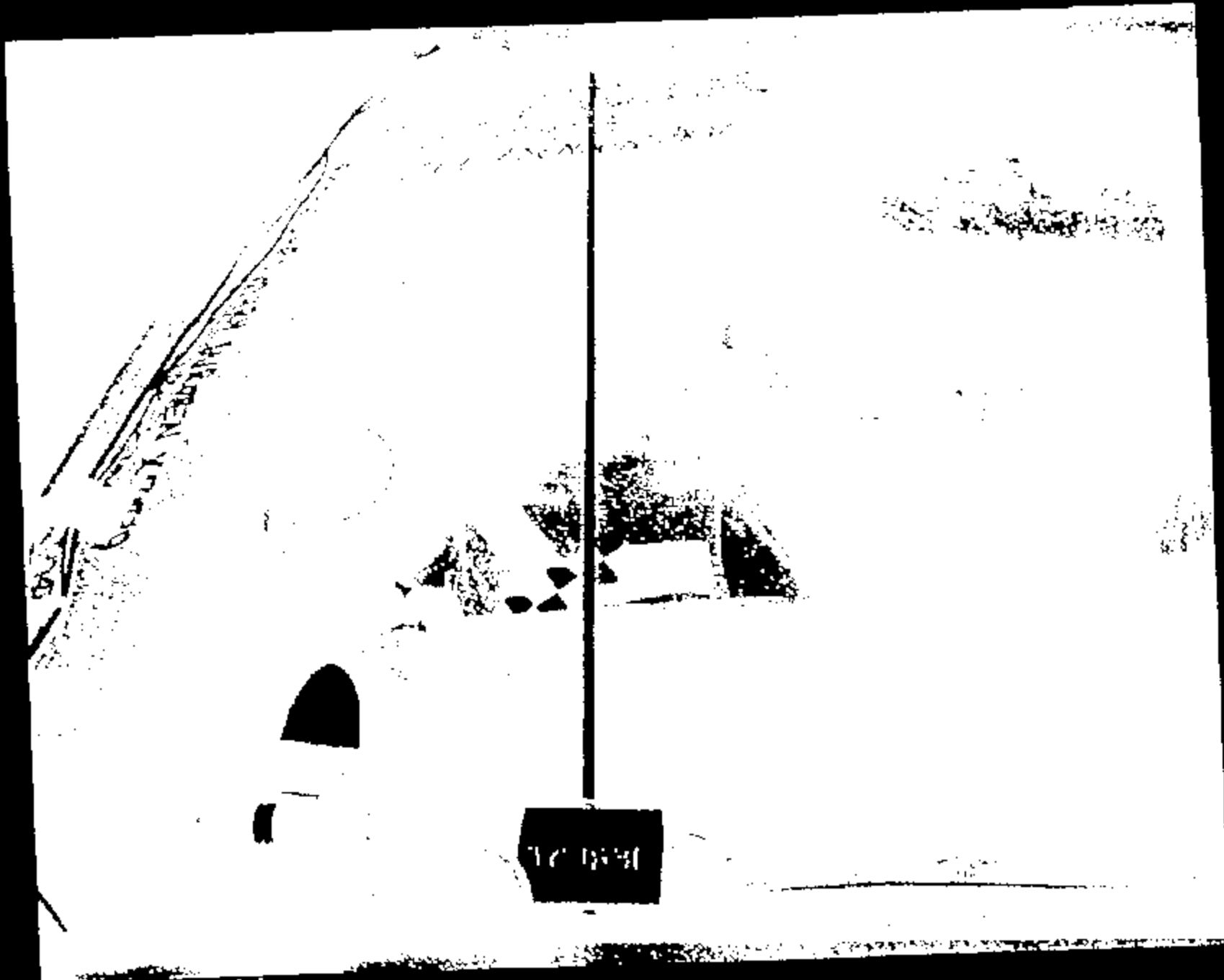
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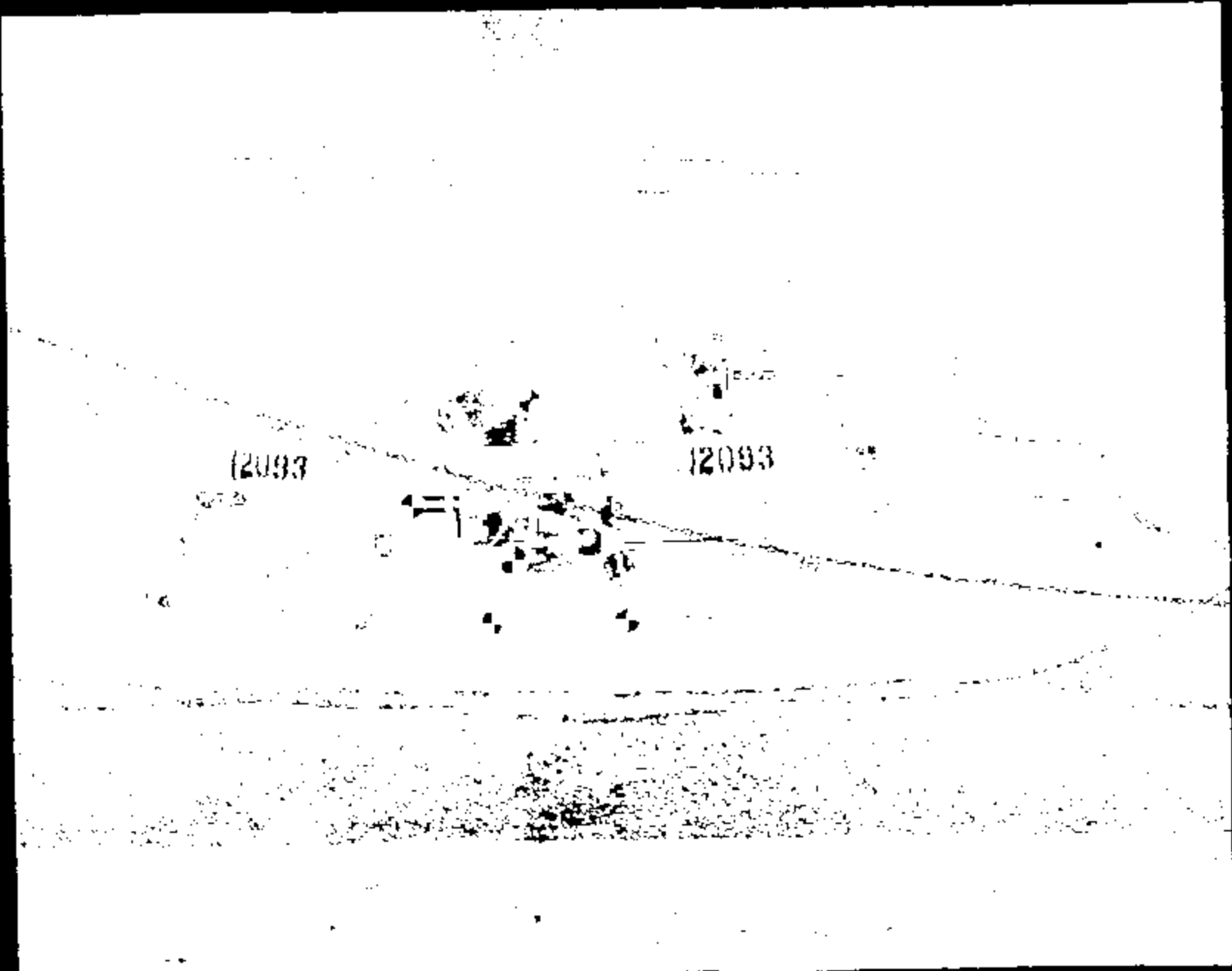
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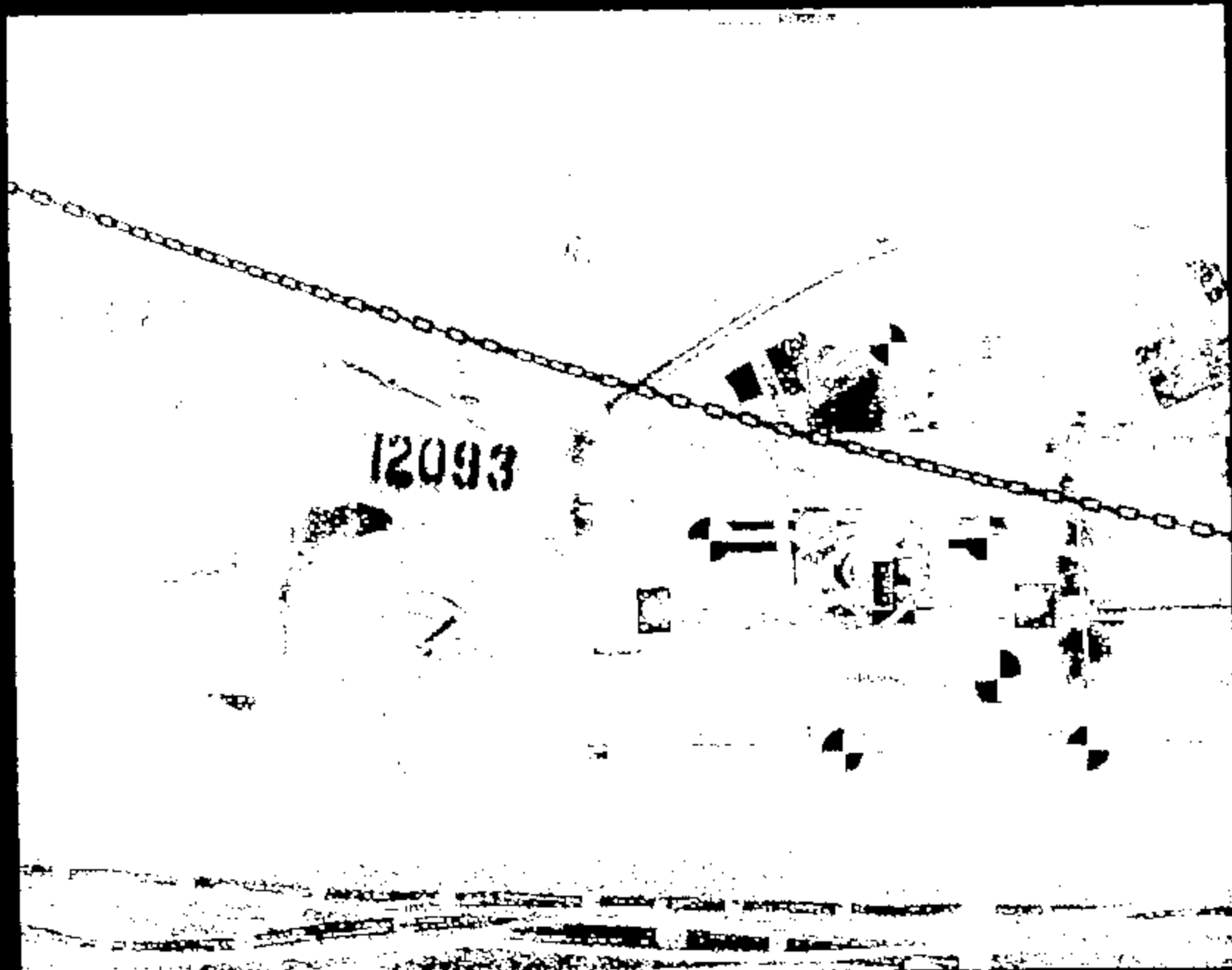
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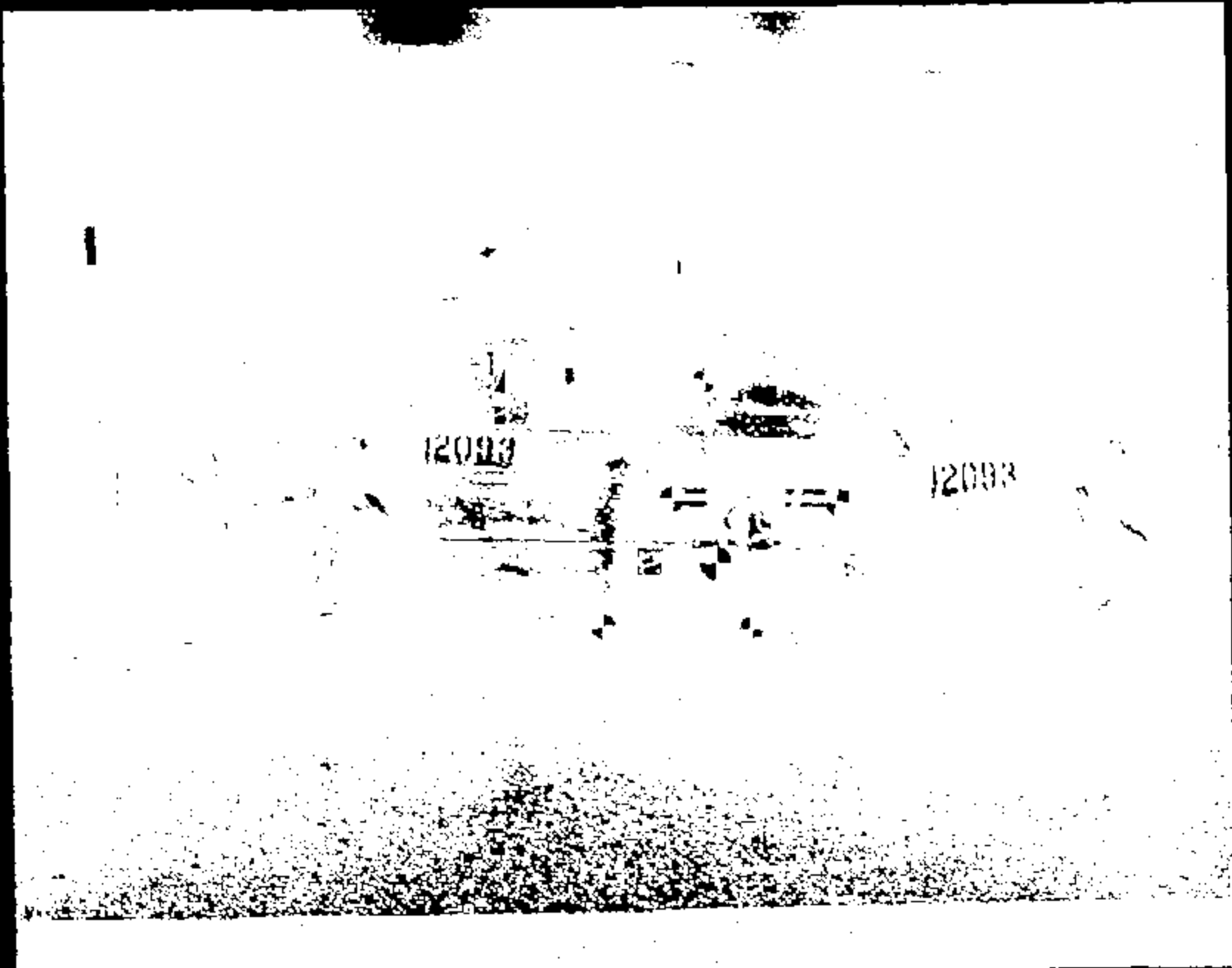
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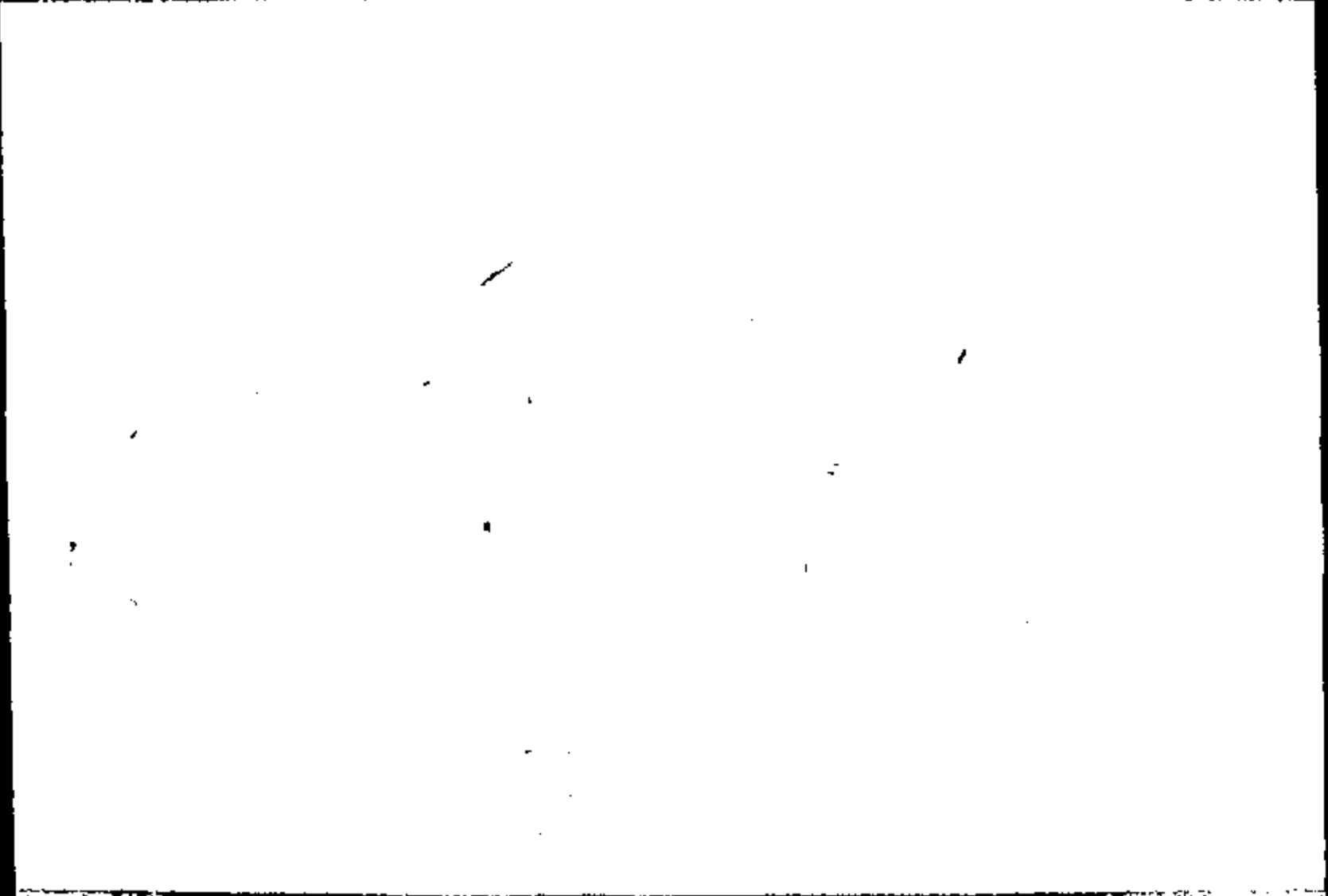
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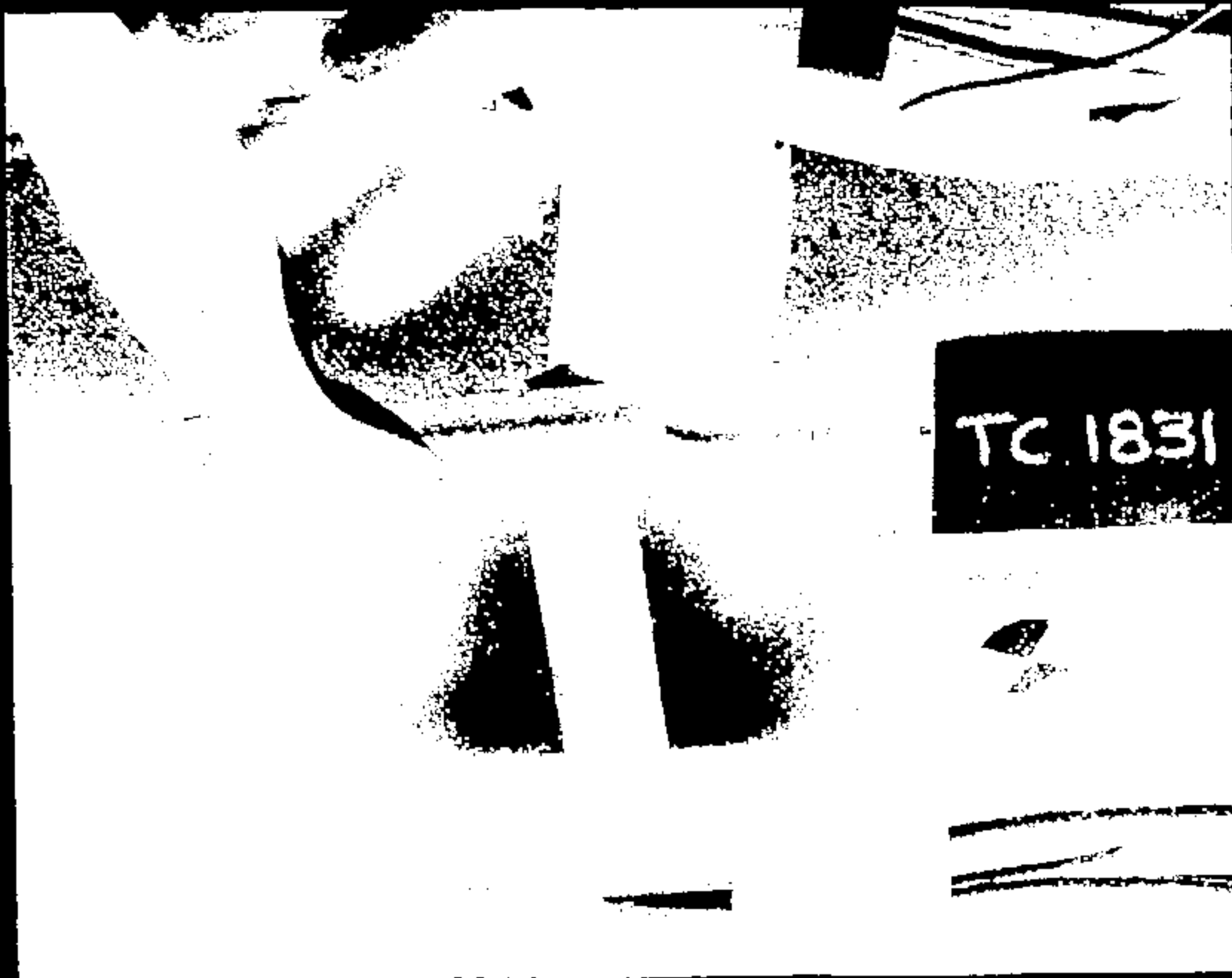
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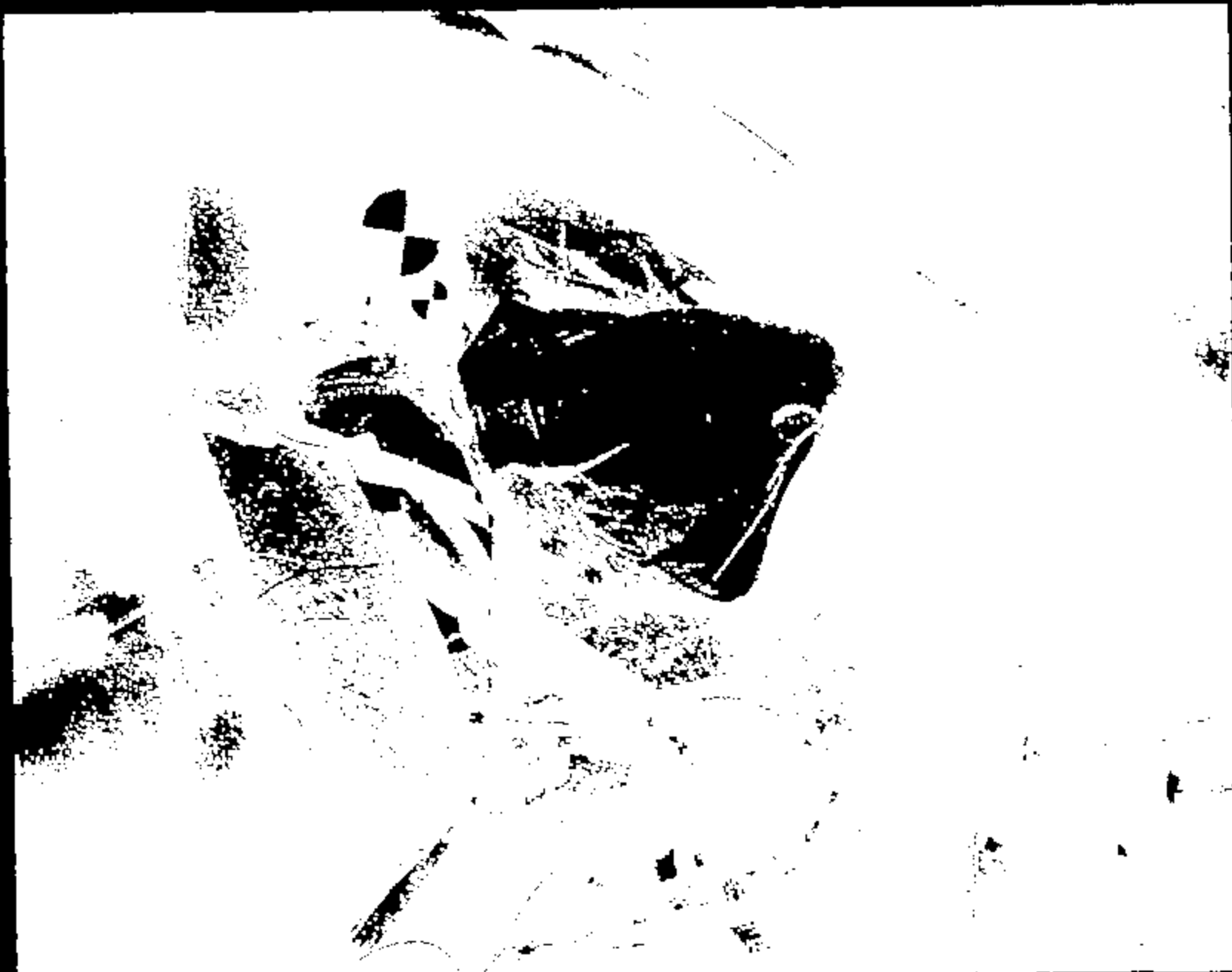


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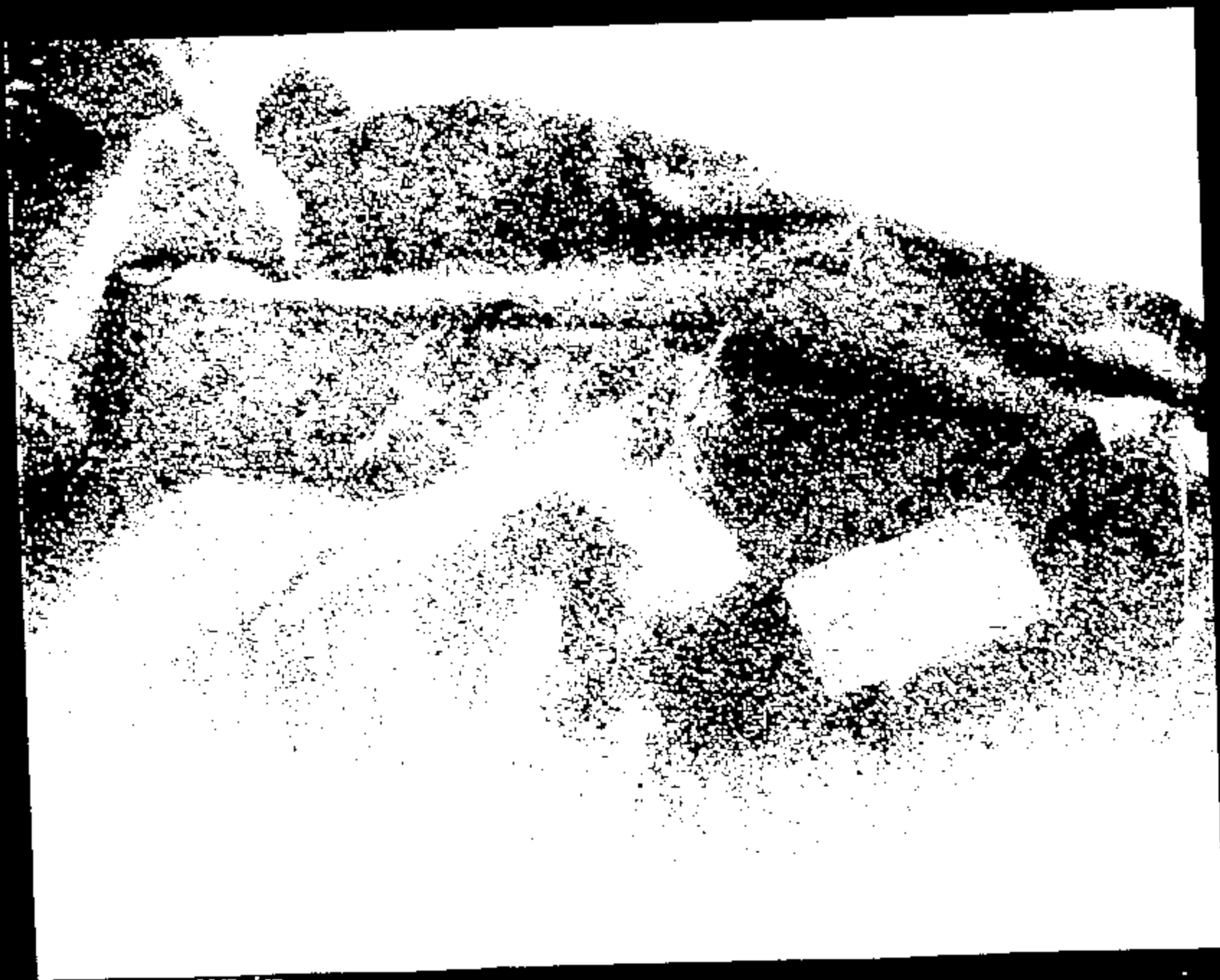
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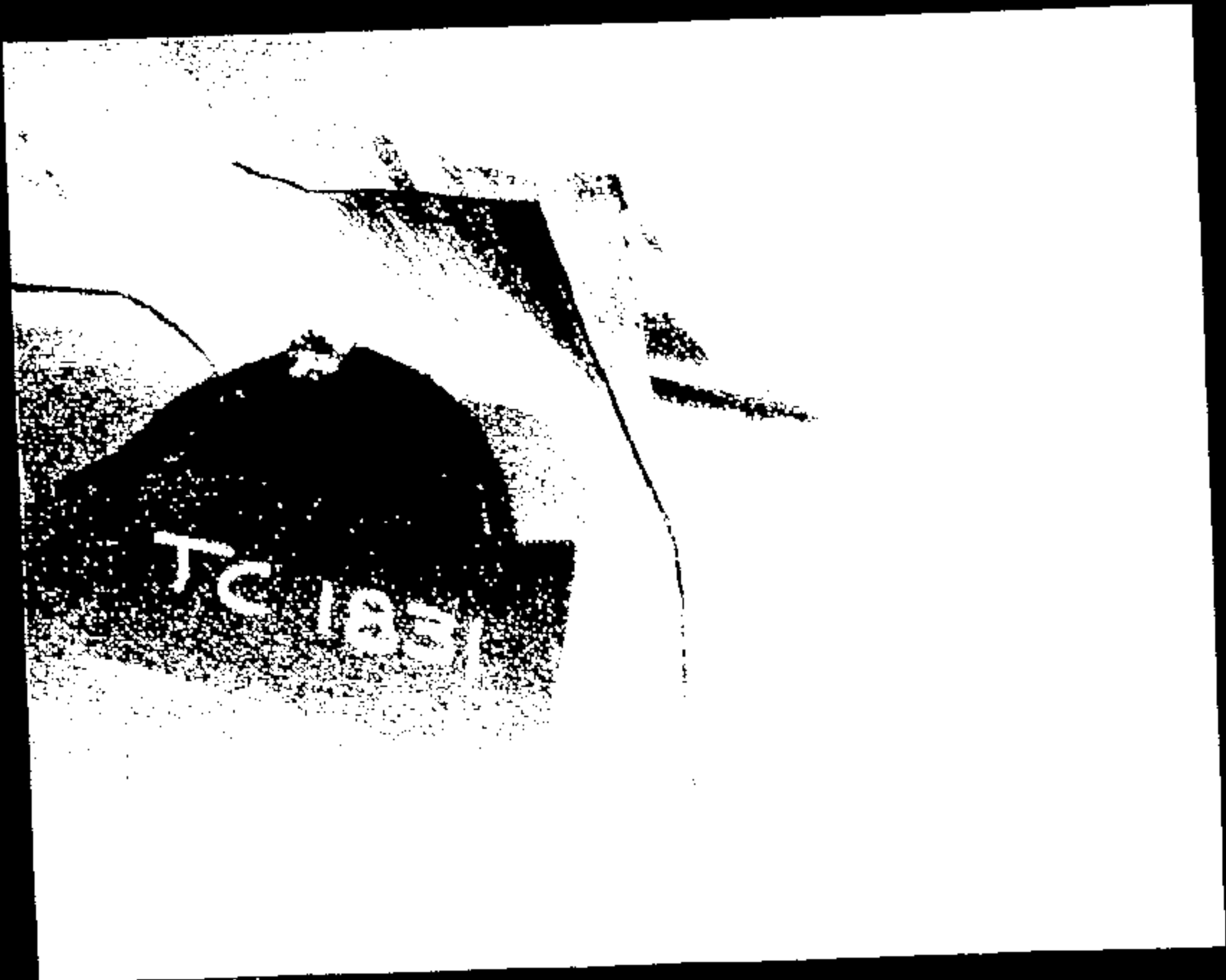
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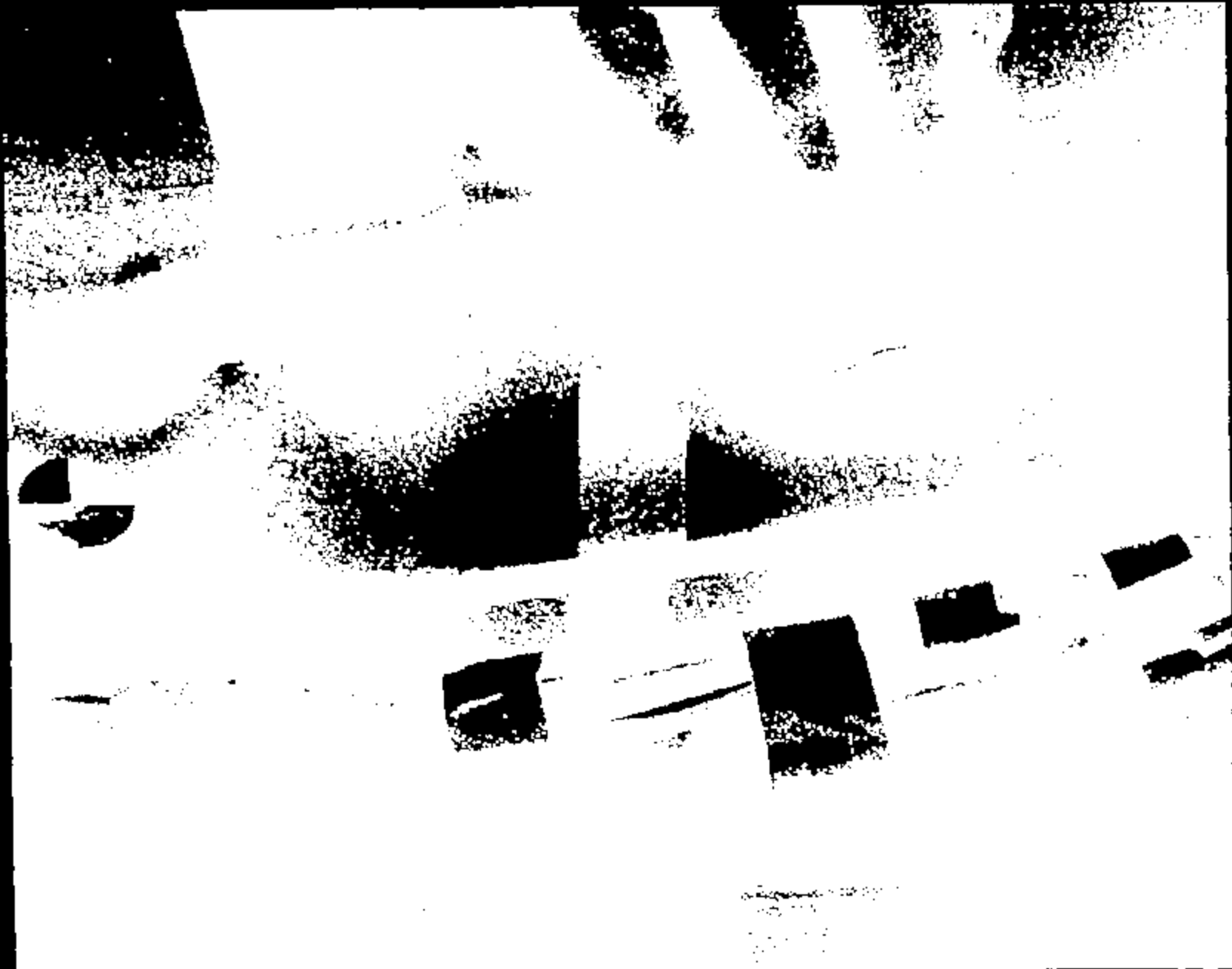
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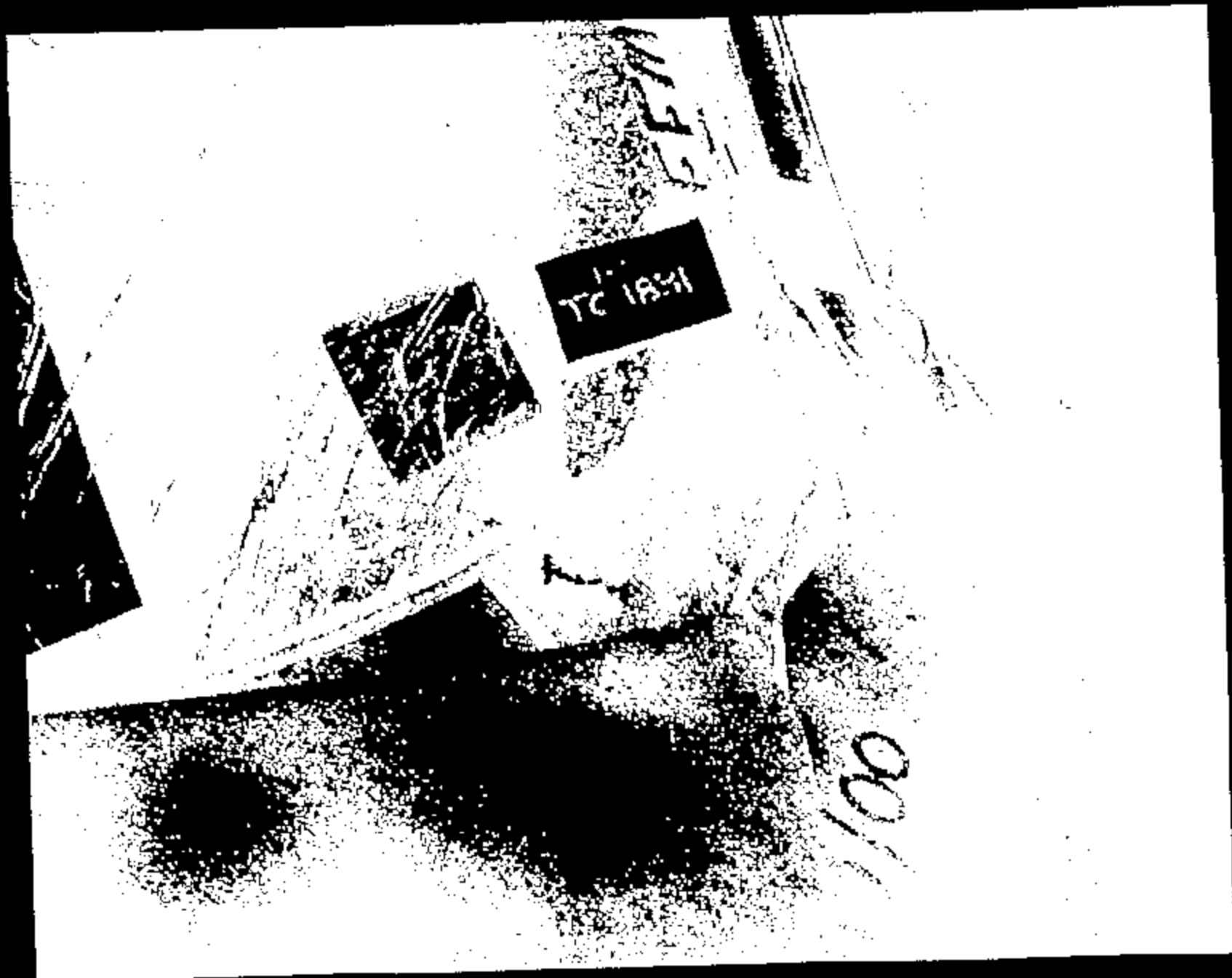
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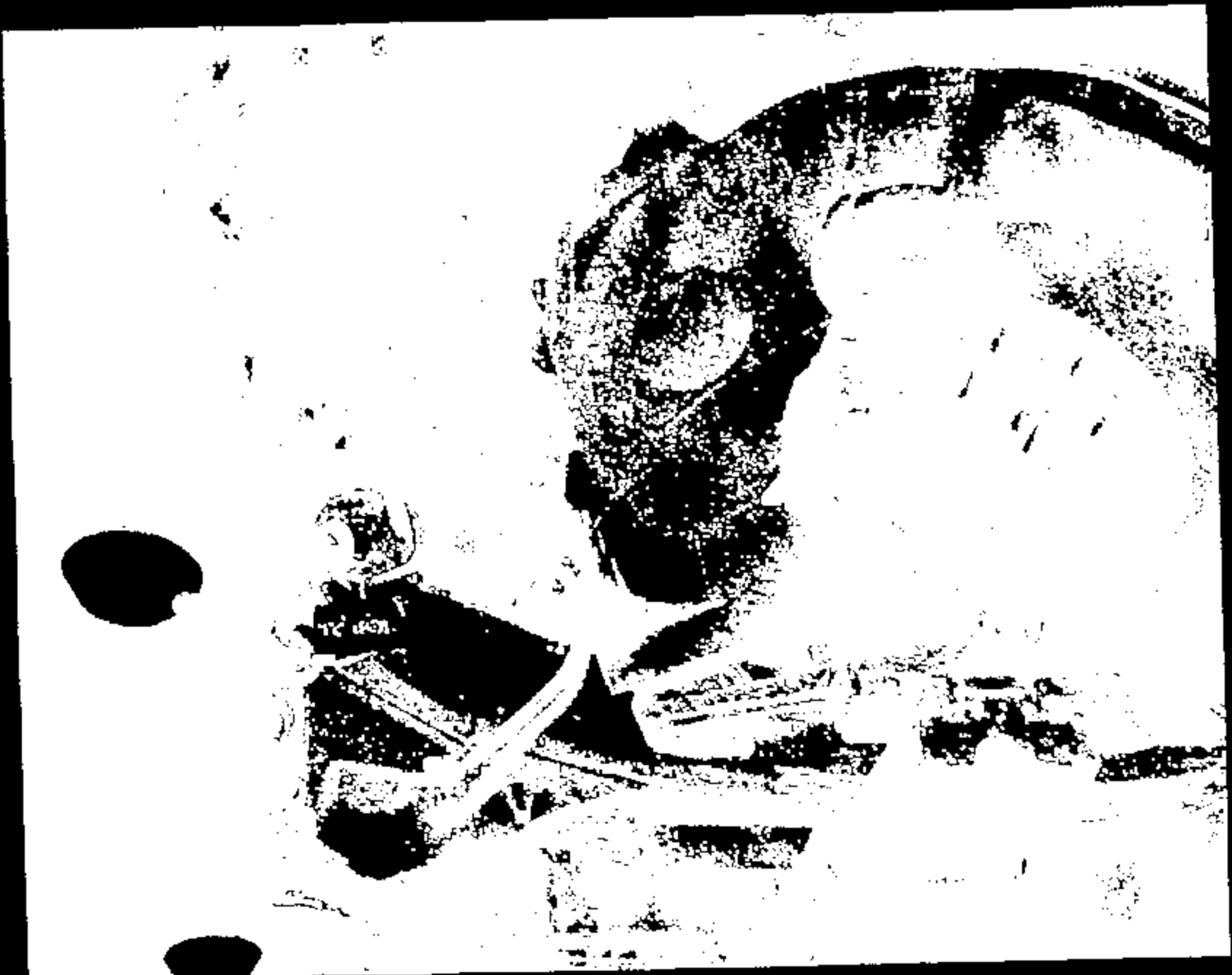
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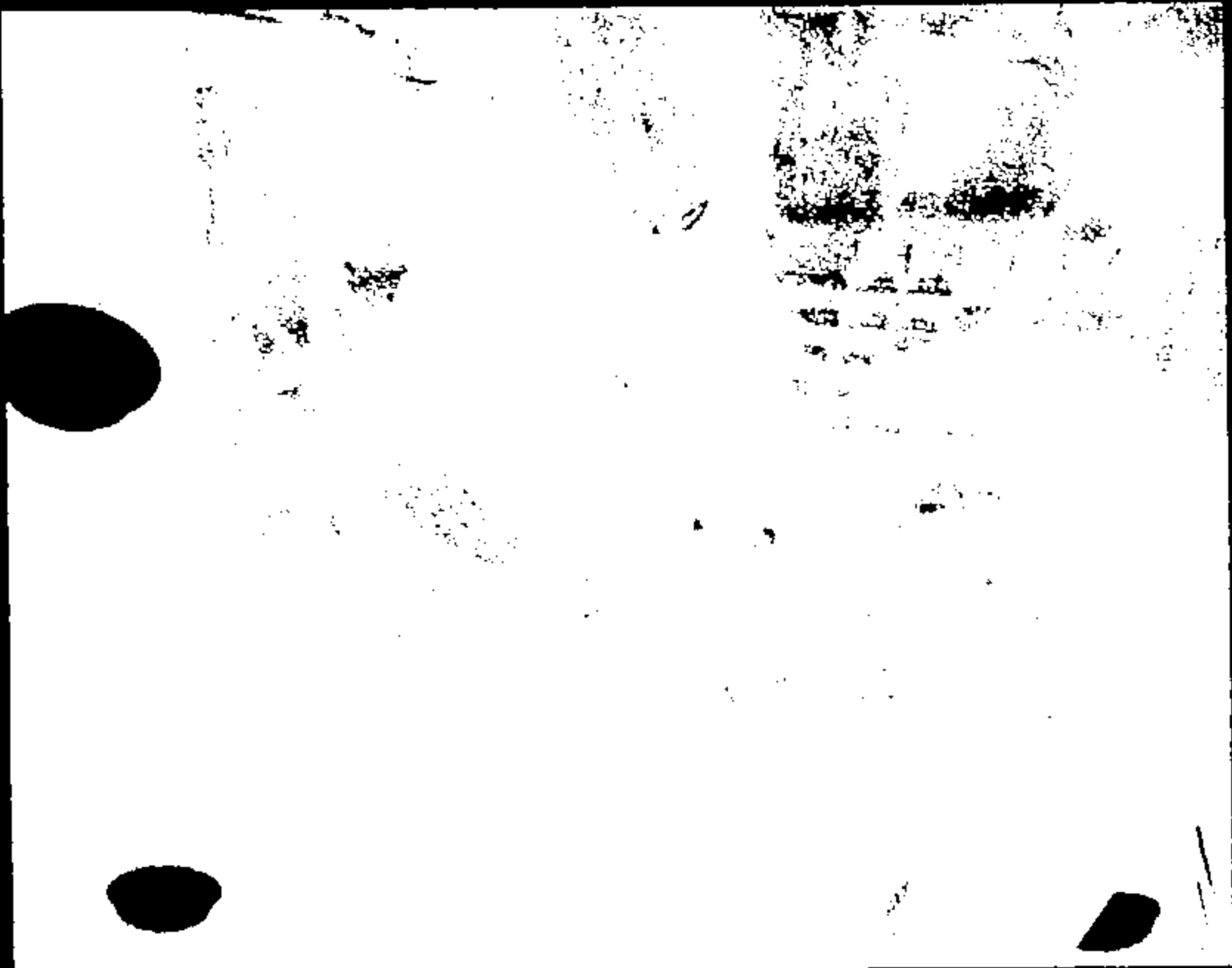
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CRTS 0012093

Form : RdJ 5506602 1293055-108

TC-1891



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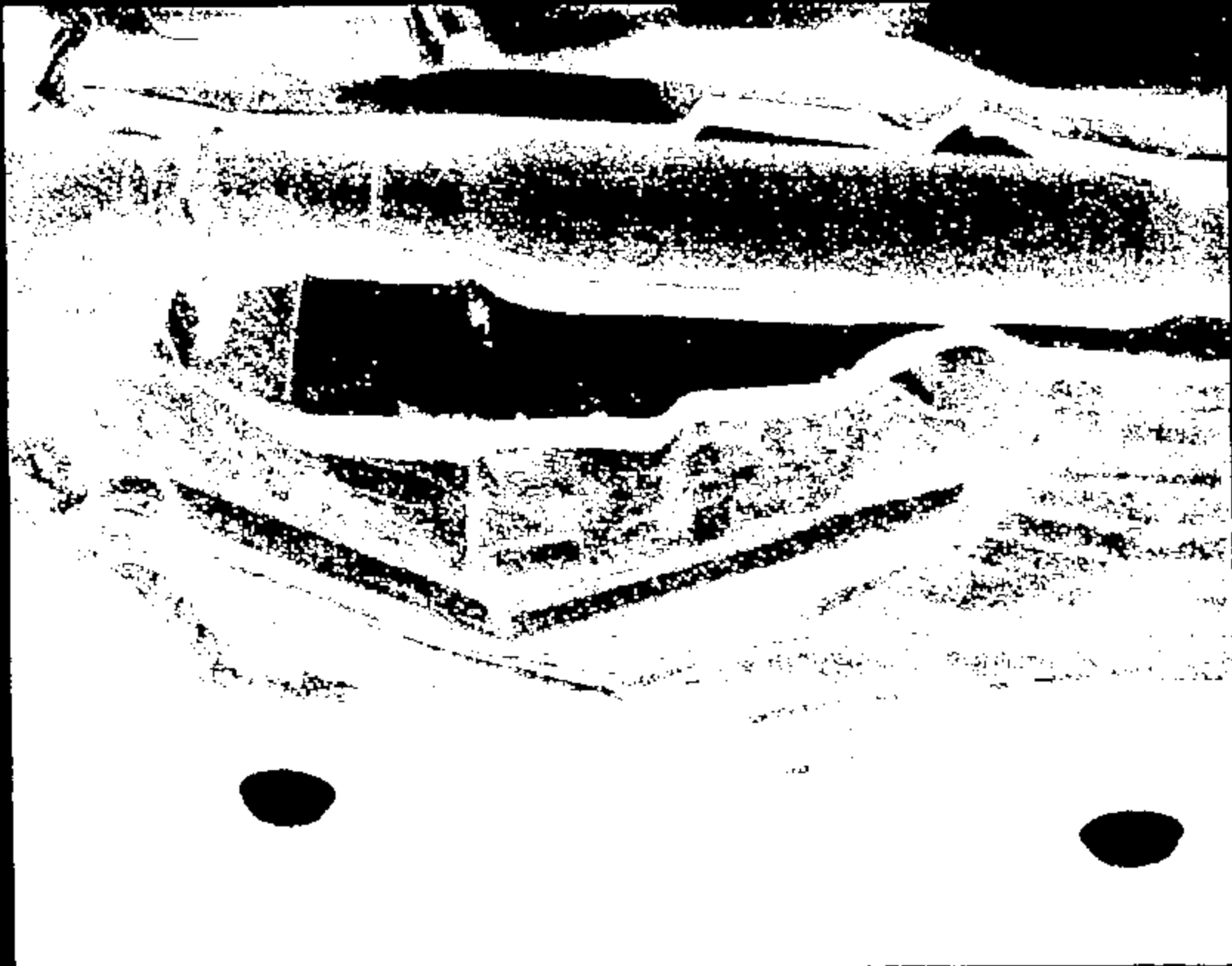
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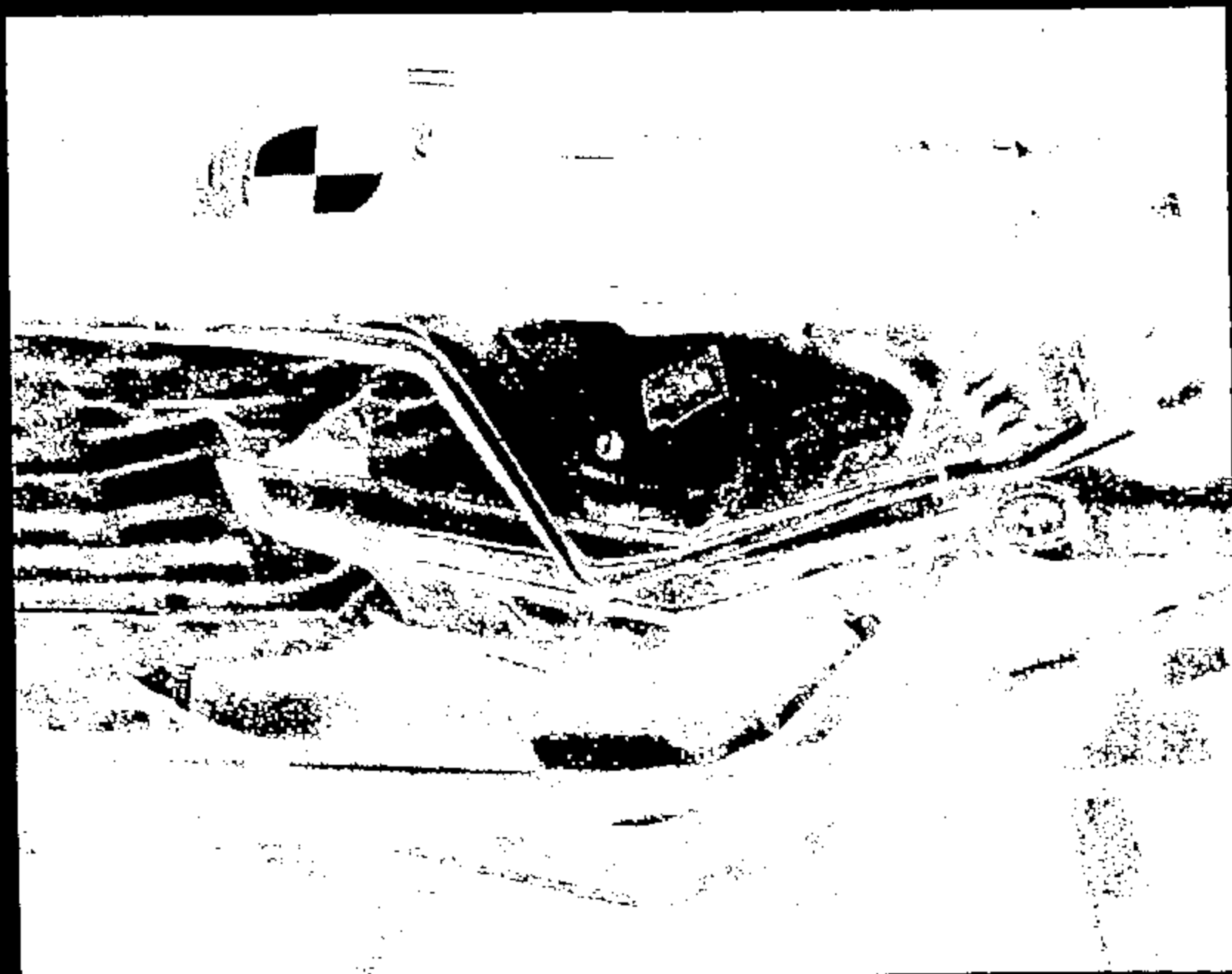
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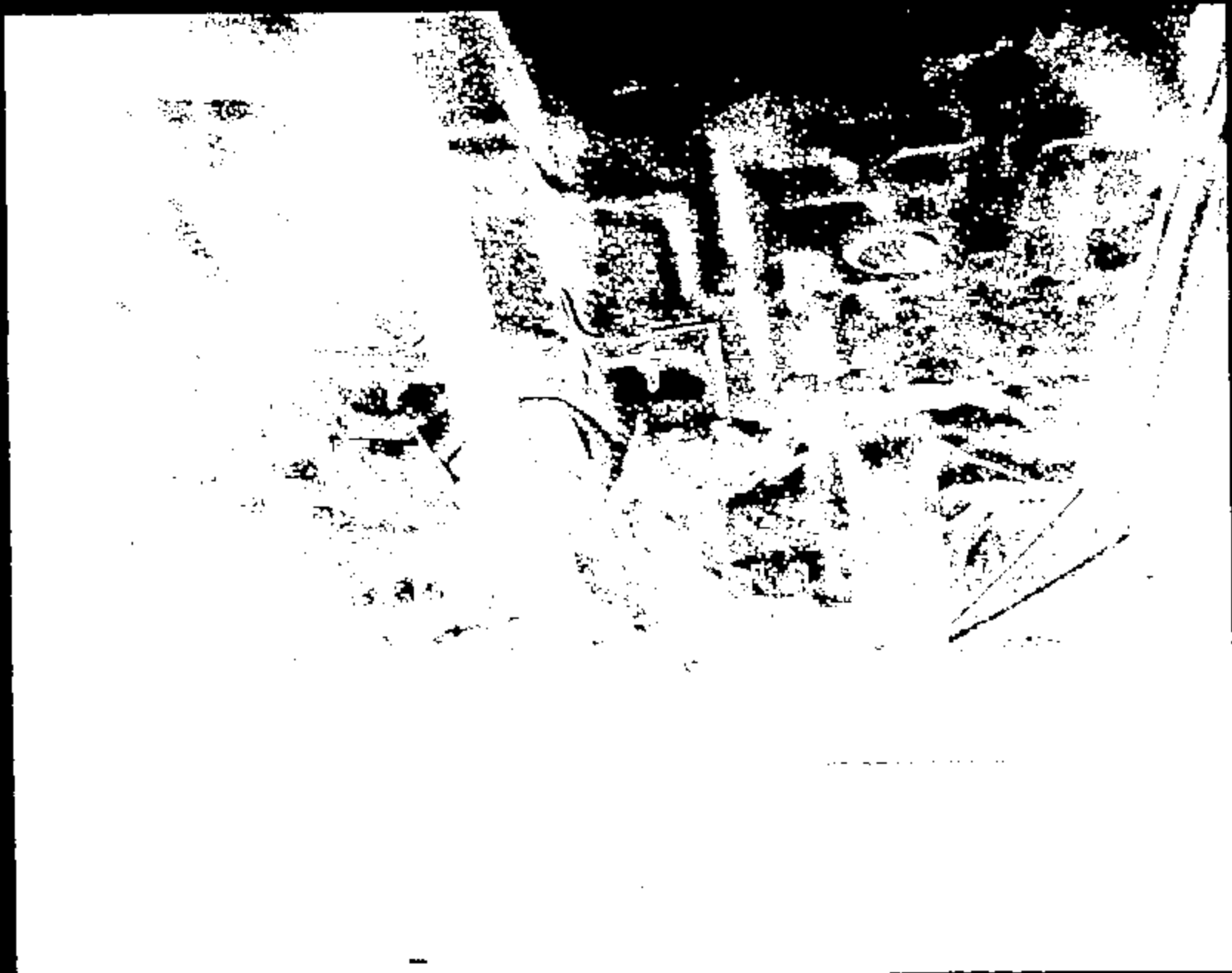
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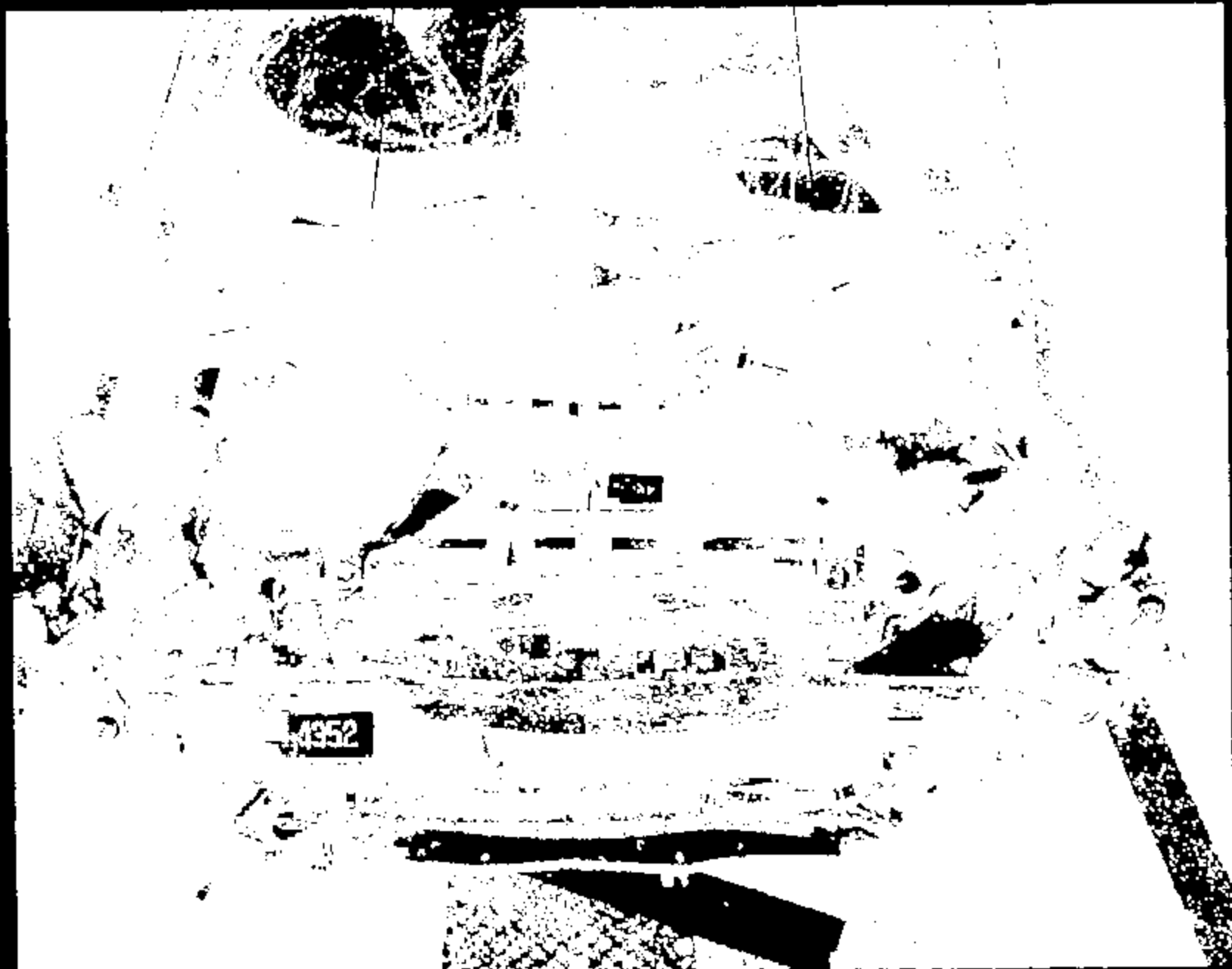
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CRTS 0012093



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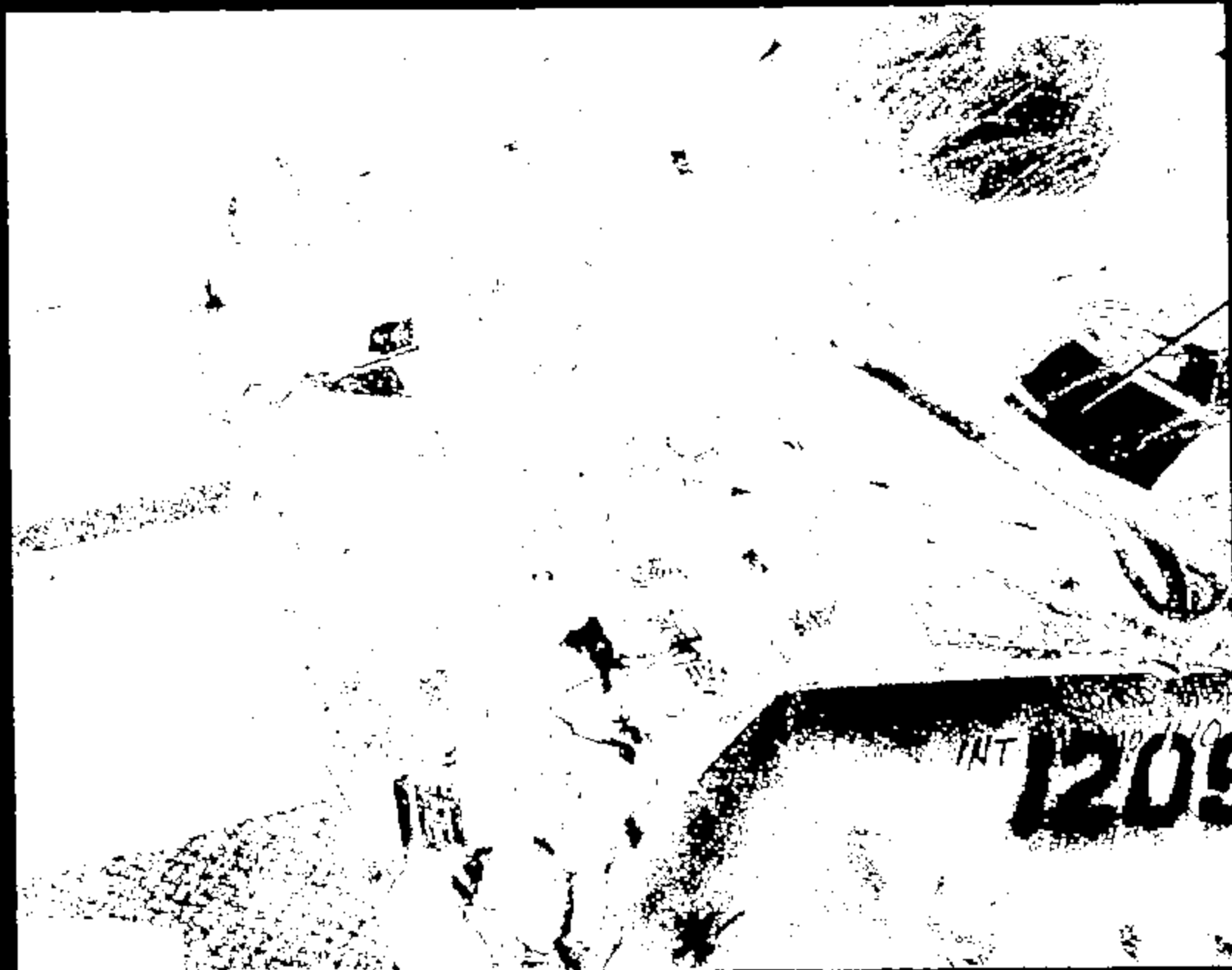
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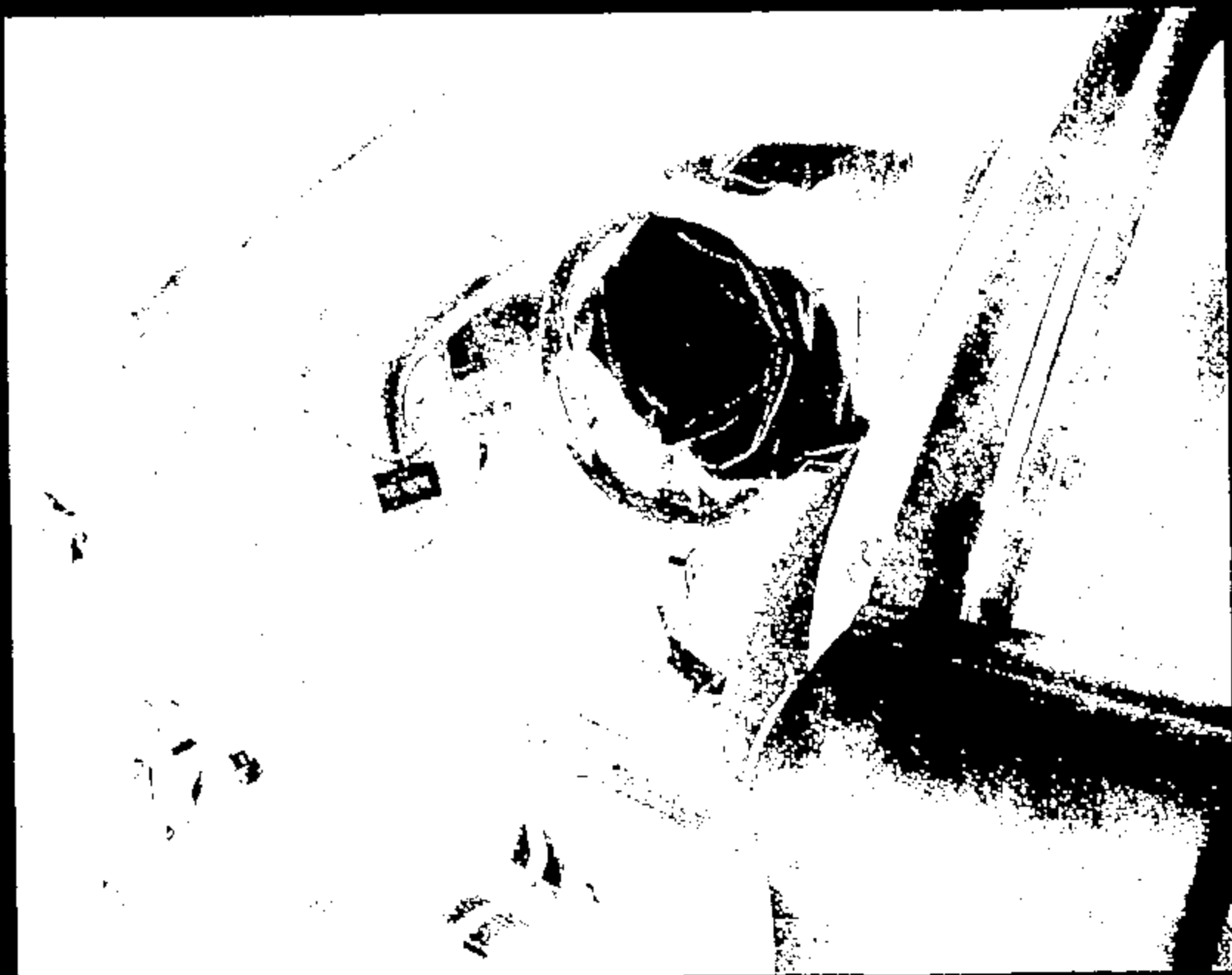
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CRTS 0012093



TC1831

CRIS 0012093

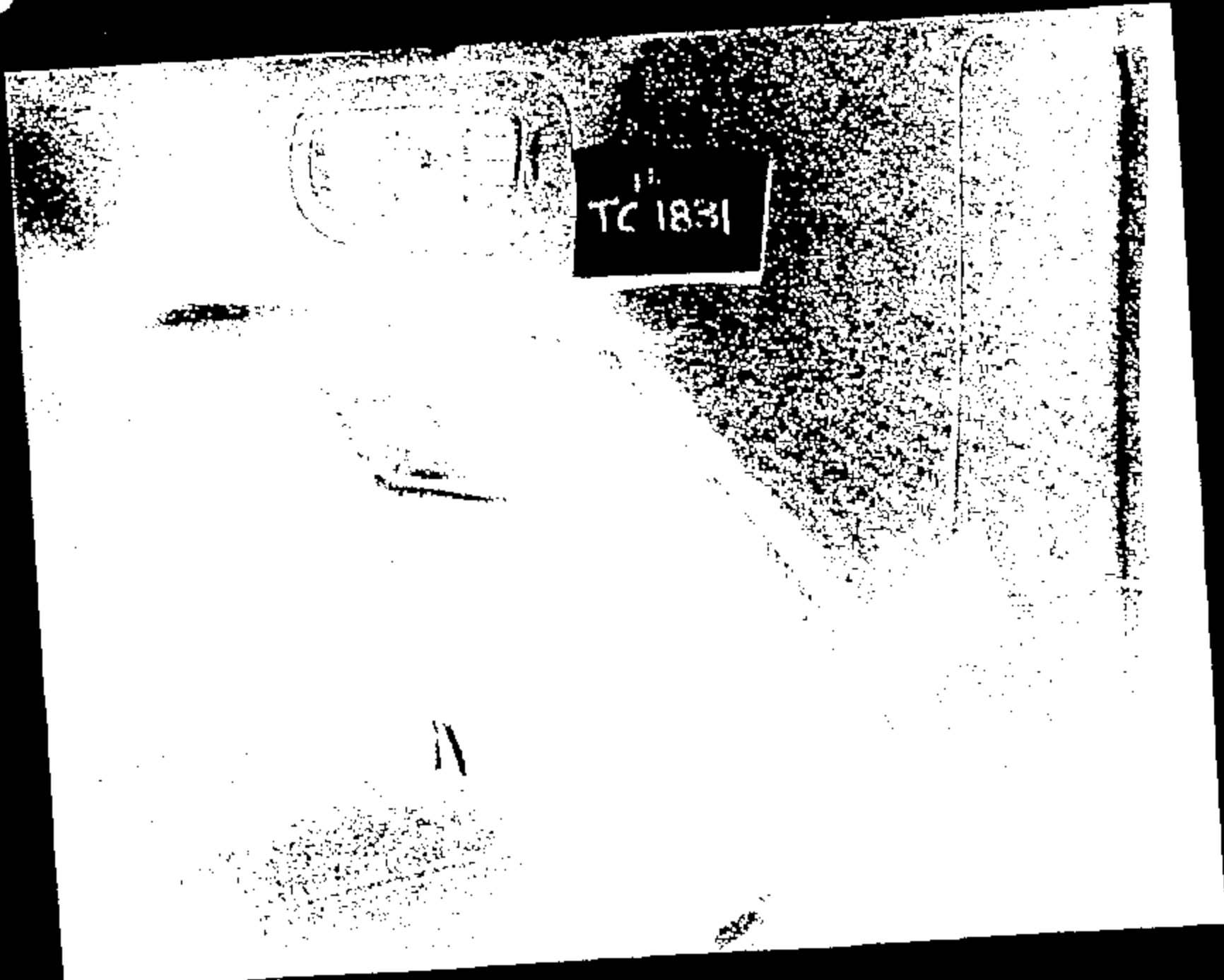
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CRTS 0012093



TC 1831

TEST AUTHORIZATION				TEST AUTHORIZATION NUMBER: TC1831			
TO: Safety Lab Department				REQUEST DATE:	REQUESTED COMPLETION DATE:		
CC: Test Affairs (KARTHUR)				10/21/00	11/4/00		
				REQUEST NUMBER:	PROBLEM NUMBER:		
				n/a	n/a		
				REQUESTING ACTIVITY:			
				Vehicle Crash Safety			
TITLE OF TEST:		(speed)	(test description)	PARTS DUE DATE:			
8000 D188		30 MPH	30 Degree Frontal	n/a			
TYPE OF TEST:		VIN # or IDENTIFICATION		VEHICLE MODEL & YEAR:		PROD. OR ENG. LETTER:	
<input checked="" type="checkbox"/> VEHICLE <input type="checkbox"/> LABORATORY		10A - 3079148		8000 D188		n/a	
ENGINE NO. DRIFL. CARB:		TRANS / DRIVE TRAIN:	AXLE RATIO:	TEST CONDUCTED TO		DISPOSITION OF PARTS:	
engine size		AUTO	n/a	CERTIFY CONTROL ITEM		n/a	
TYPE OF FUEL:		CONVERTER:	IGNITION TIMING:	COMPLIANCE WITH		PROCUREMENT REQ ?	
NONE		n/a	n/a	GOV. REGULATIONS:		<input type="checkbox"/> YES <input type="checkbox"/> NO	
CRANKCASE OIL AND CAPACITY (L):		TIRE SIZE:		IF YES GIVE CODE:		MAIL REPORT TO:	
n/a				X No			
VEHICLE TEST WEIGHT: LBS. Unless Noted		TIRE PRESSURE (psi):		REPORT CATEGORIES:		BLDG: 05.02.00	
FRONT REAR TOTAL		FRONT REAR		<input checked="" type="checkbox"/> ENGINEERING <input checked="" type="checkbox"/> DATA <input checked="" type="checkbox"/> RAW DATA		MAIL DROP: MD1830	
8272 1578 9850		80 80				ADDRESS: 8202	
1. OBJECT OF TEST 2. TEST PROCEDURE 3. ITEMS TO BE TESTED (NAME, NUMBER, QUANTITY)							
1) Conduct:		(speed)	(year)	(vehicle)	(year)	Production	
		80 mph	2000	D188	2000	Production	
		30 Degree Frontal					
2) Velocity At Impact:		30 mph		Vehicle Year: 2000			
Barrel Fire:				Vehicle Line: D188			
1st Stage:		51 ms ←		Vehicle Level: Production			
2nd Stage:		121 ms					
Pyro:		18 ms					
Dummy Positioning Procedure:		FMVSS 208, 2:18					
Test Requester:		(name)	(phone)	(page number)			
John Pazio		33-01165	JFAZ	Estimated test cost = \$30,000.00			
Build Coordinator:		Allen Preston	34-88342	APRE			
Additional Contacts:		Mary Wroten	33-71389	MWRO			
Test Dev. Engineer:		<i>[Signature]</i>					
REQUESTING SECT. NO:	WORK ORDER WORK TASK:	ISSUED/ REQUESTED BY:	PHONE:	APPROVAL:	TEST TYPE:	RISC:	BRN OFF DATE:
T81	F17	John Pazio	33-01165	K.A. [Signature]	n/a	n/a	n/a
COMPLETE THE FOLLOWING TWO QUESTIONS AS INDICATED:							
(Check appropriate boxes)				(Check appropriate boxes)			
1 - Rational for not replacing this test by CAE analysis:				2 - What is the expected Test Outcome:			
<input type="checkbox"/> No CAE Methodology or process available <input type="checkbox"/> No CAE Correlation <input type="checkbox"/> Insufficient conditions in CAE <input type="checkbox"/> To obtain basic data for CAE <input type="checkbox"/> Replacement or improvement of existing Test. <input type="checkbox"/> Testing is Critical. <input type="checkbox"/> Mandatory or Regulatory <input type="checkbox"/> Certification <input type="checkbox"/> Development test for PDR <input type="checkbox"/> Not applicable. <input checked="" type="checkbox"/> Other: <u>308 DEVELOPMENT</u>				<input type="checkbox"/> Results will meet DVP/CP requirements. <input type="checkbox"/> System Component will not meet Test specification. <input checked="" type="checkbox"/> Unknown. <input type="checkbox"/> Above is Based on CAE <input type="checkbox"/> Other: _____			

ORIGINAL COPY
 Schedule No. 7-4-12
 Retain Until 2020

[Handwritten Signature]

General Request Information

Test Mode

TA# TC1831

30 mph
90 Degree Frontal

Test Objectives: Cert (C) Verif (V) Dev (D) Audit (A)

REGULATORY:

- FMVSS 201 - Head Impact
- FMVSS 204 - Steering Wheel Displacement
- D FMVSS 208 - Frontal Occupant Protection
- FMVSS 212 - Wind Shield Retention
- FMVSS 214 - Side Impact Protection
- FMVSS 219 - Windshield Zone Intrusion
- Film Analysis
- Template
- FMVSS 301 - Fuel System Integrity
- Rollover
- Pressure Check
- FMVSS 303 - NGV Fuel System Integrity
- ECE 12 (74/297/EEC) - Protection of the Driver Against Steering Mechanism
- ECE 83 Frontal Impact - Structural Performance
- ECE 84 Fuel System Integrity
- ECE 84 Step II Frontal Offset - Occupant Performance
- ECE 85 Step II 300mm Barrier Side Impact - Occupant Performance
- 66/78/EEC - Frontal Offset
- EURO-NCAP

FORD AUTOMOTIVE OPERATIONS SAFETY DESIGN GUIDELINES:

- D Front Impact FAO Safety Design Guidelines
- Offset Frontal FAO Safety Design Guidelines

OTHER:

- Sensor Development
- Other, Specify: _____

Primary Test Vehicle Information

Use (Target/Bullet):	BULLET
Model Year:	2000
Vehicle Program:	D188
Vehicle Name:	Sable
Body / Cab Style:	SEDAN
Build Number:	N/A
Tag Number:	307W148
VIN Number:	1MEFM8555YG800018
Fuel System Rated Capacity(Gal):	18
Prototype Level:	Production
Drive Side:	LH

Special Prep/Build Instructions
Primary Vehicle

TA#: TC1531

Special Build Instructions

- Remove Side View Mirrors
- Remove Headrests
- Remove Hood
- Remove Arm rest
- X Stripe Seat Belts
- Cut Off Brake & Clutch Pedal
- Color Contrast Under Hood Components

Other, Specify:

- X Cut holes in driver and passenger doors for interior IP cameras

DRY AIR 5TH "H" POINT
**USE 8mm LENSE*
Jendal
12-5-2000

Pyro Restraints Usage

- X Left Front Air Bag
- X Right Front Air Bag
- Left Side Air Bag
- Right Side Air Bag
- Left Side Curtain
- Right Side Curtain
- Left Pyro Retractor
- X Left Pyro Buckle
- Right Pyro Retractor
- X Right Pyro Buckle

Other, Specify:

Remote Fire Time: (No fire time listed if sensor fired OR if no pyro restraints are used)

21 ms Single Stage or Stage 1 121 Stage 2 18 Pyro Belts

Remote back-up Fire Time:

_____ Single Stage or Stage 1 _____ Stage 2 _____ Pyro Belts

Special Pre-Test Preparation

Other, Specify:

**Occupant / ATD Request
Primary Vehicle**

TAF: TC1531

	<i>Occupant 1</i>	<i>Occupant 2</i>
Type	<u>5% Hybrid 3</u>	<u>5% Hybrid 3</u>
Instrumentation Level*	<u>DEVELOPMENT</u>	<u>DEVELOPMENT</u>
In-Vehicle Location	<u>LP</u>	<u>RF</u>
Verify:		
Seat Position Long	<u>FULL FORWARD</u>	<u>FULL FORWARD</u>
Seat Position Vert	<u>Mid Position</u>	<u>Mid Position</u>
Seat Back Angle	<u>FMVSS 205, S:16</u>	<u>FMVSS 205, S:16</u>
D-Ring Position	<u>Full Down</u>	<u>Full Down</u>
Positioning Procedure	<u>FMVSS 205, S:16</u>	<u>FMVSS 205, S:16</u>
Use Foot Rest	<u>NO</u>	<u>NO</u>
Take Seat Track Video	<u>YES</u>	<u>YES</u>
Special Positioning Instructions		
Dummy Adjustment (arm angle)	<u>N/A</u>	<u>N/A</u>
Occupant Belted	<u>YES</u>	<u>YES</u>

*See instrumentation request for detailed instrumentation information.

Test Conditions - Final Prep

TAM: TC1881

Final Prep Contacts

ONE of these MUST be present during weigh-up & final prep

Test Engineer	Request Engineer	Build Coordinator
Name: _____	John Fazio	Allen Preston
Phone: _____	32-31182	24-85342
Pager: _____	JFAZ	APRE

Test Weight

_____ Minimum Option Weight	GVWR: _____
<u>X</u> 33% Option Weight	Wheelbase: _____
_____ Maximum Option Weight	

Tire Pressure

Front: 30 psi Rear: 30 psi

Fuel System

Fuel Tank & System to Contain: NONE

<u>0</u> gallons	=	<u>0</u> %	x	<u>18.0</u> gallons
Fill Level		%	x	Capacity

Weight Targets

If required weight distribution is UNACHIEVABLE, please note allowable variances.

Curb Weight	Requested Test Weight	Acceptable Test Weight Variance		Actual Test Weight
		High (+)	Low (-)	
Front: _____	<u>2,272</u> lbs	Front: <u>18</u> lbs	<u>0</u> lbs	Front: <u>2272</u>
Rear: _____	<u>1,576</u> lbs	Rear: <u>13</u> lbs	<u>0</u> lbs	Rear: <u>1585</u>
Total: _____	<u>3,848</u> lbs	Total: <u>28</u> lbs	<u>0</u> lbs	Total: <u>3857</u>

Rated Luggage Load: 200 lbs

Simulate/Verify at Weigh-Up

Dummy Weight

On Board Camera Coast

Weight Addition (Restrictions)

Do NOT place any weight in the following locations:

<u>X</u> Air Cleaner	<u>X</u> Engine
<u>X</u> Battery	<u>X</u> Fan Box/Shroud
<u>X</u> Bottle - Coolant	<u>X</u> Headlamp Opnrg
<u>X</u> Bottle - Washer	<u>X</u> Radiator

Other: _____

CAN USE UP TO 70 LBS IF Needed - Serial 12-52000

_____ Doors
_____ Foot Wells - Front
_____ Foot Wells - Rear
_____ Quarter Panels
_____ Trunk Floor

Ride Heights

Measure @ Test Weight
 Front: Level to Ground
 Rear: Level to Ground

Measure
 From: _____
 To: _____

Additional Remarks

_____ DO NOT fill tank with standard until weigh-up

**Dimensional Analysis Request
Primary Vehicle**

TAF: TC1451

Frontal Impacts

	74		
	81		
X	106	Control Points (CAR)	Exterior
	107		
X	129	Collision Distance Points	Exterior
	128	Frame St. Col./Bsu. for Grapple (CAR)	Exterior
	130	Frame Standard Bottom (CAR)	Exterior
X	132	Unframed Standard Bottom (CAR)	Exterior
	134	Drive Shaft Collases	Exterior
	135	Standard Body Fasteners	Exterior/Interior
	136	Weldments (CAR+REITC)	Exterior
	140	SH & Plier	Exterior
X	145	Shot Gage	Exterior
	146	Header	Interior
X	180	Steering Wheel Deformation/Periphery	Interior
X	189	Steering Column Mounts	Interior
	184	Steering Column Torque	Interior
	185		
X	190	Seat Tracks to Floor Mounts	Exterior
X	195	Seat to Trunk Mounts	Exterior
	190	Coast Rotation	Exterior
X	168	Plowman Points	Exterior
	164	Open Bolster	Interior
	166	Seat Back Mounts	Interior
	169	Clasical Strut	Interior
	170	Tunnel Hinge Plier	Exterior
	175	Brake Linings (ONLY if you can reach it)	Interior
	174	Instrument Panel Mounts	Exterior
	176	T-M-T Torque	Exterior/Interior
	177	Trim Non-Sided & Body Sided	Exterior/Interior
	205	Rear Door Assembly Protection	
	200		
	202		
	208		
	209		
	204		
	276		
	455	Plot & Sectional Profiles	
	500	Decoupling Column Collases	Interior
	507	P.S. Steering Column Collases	Exterior
	508		
	509	TR Steering Column Collases & Intermediate Shaft	Interior
X	620	Dash Profile @ Driver Console	Interior
X	641	Dash Profile @ Vehicle Console	Interior
X	648	Dash Profile @ Passenger Console	Interior
	647	Frontal Protection	Interior
X	680	1 All pre and post crash seats 2 All pre and post body mounts	

Film Analysis & Photographic Services Request

Front Impact Film Analysis

TA#: TC1831

- Head WRT Vehicle
- Shoulder WRT Vehicle
- Rooker WRT Ground

Other, Specify:

Still Photography

- Pre Test Documentation Photographs
- Post Test Documentation Photographs

High Speed Photographic Requirements

- 1 Copies of High Speed Film Required
- Copies of High Speed Film Required in VHS Format
- Digitization of Driver/ Passenger Kinematics Format

High Speed Cameras for Front Impact

On-Board Vehicle

- Onboard - LEFT Occupant Over Shoulder
- Onboard - RIGHT Occupant Over Shoulder
- Onboard - Driver "D" Ring
- Onboard - Driver Buckle
- Onboard - Driver Retractor (Lower)
- Onboard - Driver Lower Torso to VP Contact, From Rear, Cross Car
- Onboard - Passenger Lower Torso to VP Contact, From Rear, Cross Car
- Onboard - Passenger "D" Ring
- Onboard - Passenger Retractor (Lower)
- Onboard - Driver Door (Left Hand Side) *CALL REQUESTOR FOR SETUP SAM LEVOC*
- Onboard - Passenger Buckle
- Onboard - Passenger Door (Right Hand Side) *CALL REQUESTOR FOR SETUP SAM LEVOC*
- Onboard - Photo Sonic (Intermediate Shaft) - From Floor
- Onboard - Photo Sonic (Intermediate Shaft) - Side View From Tunnel
- Onboard - Fiber Optics (Intermediate Shaft) - From Floor
- Onboard - Fiber Optics (Intermediate Shaft) - Side View From Tunnel

Floor Coverage

TAF: TC1931

- Left Occupant Over Shoulder, On tripod, from rear, cross car
- Right Occupant Over Shoulder, On tripod, from rear, cross car
- Left Occupant Over Shoulder, In lights
- Right Occupant Over Shoulder, In lights
- Overall Left
- Barrier to B-Pillar Left
- Dummy Kinematics & Velocity Left
- Overall Right
- Barrier to B-Pillar Right
- Dummy Kinematics & Velocity Right
- Top of Barrier - Overall View of Windshield
- Top of Barrier - Driver
- Top of Barrier - Passenger
- Left Front Rail Extension Bumper Close-up
- Right Front Rail Extension Bumper Close-up

Overhead Coverage

- Overhead - Overall
- Overhead - A-Pillar Forward
- Steering Column Displacement
- Scale
- Resection

Pit Coverage

- Pit - Overall
- Pit - A-Pillar Forward
- Pit - L/R Frame Home (Crisscross)
- Pit - L/R Front Rails #1 X/M Rearward
- Pit - Steering Gear Close-up
- Pit - Fuel Tank
- Pieces of Plex-Glass to be removed from pit.

All Other High Speed Photography

Primary Vehicle Systems Instrumentation

TAR: TC1891

SENSOR ACCELS:

 See Sensor Map

MONITOR AIR BAG SENSORS:

 See Sensor Map
 Monitor Closure of Each Specified Sensor
 Monitor Closures of Single Pt Elect Sensor

MONITOR AIR BAGS STATUS:

 X Two Stage Air Bags
 X Driver Squib Voltage
 X Driver Squib Current
 Driver Bag Pressure
 X Passenger Squib Voltage
 X Passenger Squib Current
 Passenger Bag Pressure
 Passenger Inflator Pressure

RESTRAINT LOADS:

 X Left Pyro-Technic Buckle Squib Voltage
 X Left Pyro-Technic Buckle Squib Current
 X Right Pyro-Technic Buckle Squib Voltage
 X Right Pyro-Technic Buckle Squib Current
 X Lightweight Left Lap Belt at Anchor Load
 X Lightweight Left Torso Belt at Retr. Load
 X Lightweight Left Torso Belt at D-ring Load
 X Lightweight Right Lap Belt at Anchor Load
 X Lightweight Right Torso Belt at Retr. Load
 X Lightweight Right Torso Belt at D-ring Load

STEERING COLUMN:

 Stroke Break Wires
 L & R Shear Modulus Break Wires
 TIR Mechanism Break Wires
 Steering Column String Pot
 X Load Cell (5 Axis)

SWITCHES:

 Engine to Rad Support left
 Engine to Rad Support center
 Engine to Rad Support right
 Other _____

FUEL SYSTEM:

 X Inertia Fuel System Cut-Off Switch

VEHICLE STRING POTS:

OTHER VEHICLE ELECTRICAL SYSTEM INSTRUMENTATION:

Dummy Instrumentation - Internal

5% Hybrid 3 LF

ACCELS:

Head C.G.
 Chest
 Pelvis

<input checked="" type="checkbox"/> Long	<input checked="" type="checkbox"/> Vert	<input checked="" type="checkbox"/> Lat
<input checked="" type="checkbox"/> Long	<input checked="" type="checkbox"/> Vert	<input checked="" type="checkbox"/> Lat
<input checked="" type="checkbox"/> Long	<input checked="" type="checkbox"/> Vert	<input checked="" type="checkbox"/> Lat

LOAD CELLS:

Neck Upper Load
 Neck Upper Moment
 Neck Lower Load
 Neck Lower Moment (no Mz on 5%)
 Thoracic Load
 Thoracic Moment
 Lower Lumbar Load
 Lower Lumbar Moment
 L/Femur Load
 L/Femur Moment
 R/Femur Load
 R/Femur Moment
 L/Up/Tibia Load
 L/Up/Tibia Moment
 R/Up/Tibia Load
 R/Up/Tibia Moment
 L/Low/Tibia Load
 L/Low/Tibia Moment
 R/Low/Tibia Load
 R/Low/Tibia Moment

<input checked="" type="checkbox"/> Fx	<input type="checkbox"/> Fy	<input checked="" type="checkbox"/> Fz
<input type="checkbox"/> Mx	<input checked="" type="checkbox"/> My	<input type="checkbox"/> Mz
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<input type="checkbox"/> Mx	<input type="checkbox"/> My	<input type="checkbox"/> Mz
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<input type="checkbox"/> Fx	<input type="checkbox"/> Fy	<input type="checkbox"/> Fz
<input type="checkbox"/> Mx	<input type="checkbox"/> My	<input type="checkbox"/> Mz
<input type="checkbox"/> Fx	<input type="checkbox"/> Fy	<input type="checkbox"/> Fz
<input type="checkbox"/> Mx	<input type="checkbox"/> My	<input type="checkbox"/> Mz

POTENTIOMETERS:

Chest Deflection
 Left Knee Slider Ball Bearing
 Right Knee Slider Ball Bearing

Std
 Std
 Diap
 Diap
 Diap

OTHER INTERNAL DUMMY INSTRUMENTATION:

L/R Femur Accels (not on 5% dummies) Long
 L/R Ankle soft bumper to foot stem

Dummy Instrumentation - External

CONTACT SWITCHES:

L / Knee Contact
 R / Knee Contact
 Header

STRING POTS:

Pelvis
 L / Knee
 R / Knee

Dummy Instrumentation - Internal

5% Hybrid 3

RF

ACCELS:

Head C.G.
 Chest
 Pelvis

Long Vert Lat
 Long Vert Lat
 Long Vert Lat

LOAD CELLS:

Neck Upper Load
 Neck Upper Moment
 Neck Lower Load
 Neck Lower Moment (no Mz on 5%)
 Thoracic Load
 Thoracic Moment
 Lower Lumbar Load
 Lower Lumbar Moment
 L/Femur Load
 L/Femur Moment
 R/Femur Load
 R/Femur Moment
 L/Up/Tibia Load
 L/Up/Tibia Moment
 R/Up/Tibia Load
 R/Up/Tibia Moment
 L/Low/Tibia Load
 L/Low/Tibia Moment
 R/Low/Tibia Load
 R/Low/Tibia Moment

Fz Fy Fz
 Mx My Mz
 Fx Fy Fz
 Mx My Mz
 Fx Fy Fz
 Mx My Mz
 Fx Fy Fz
 Mx My Mz
 Mx My Mz
 Fx Fy Fz
 Mx My Mz
 Fx Fy Fz
 Mx My Mz
 Fx Fy Fz
 Mx My Mz
 Fx Fy Fz
 Mx My Mz

POTENTIOMETERS:

Chest Deflection
 Left Knee Slider Ball Bearing
 Right Knee Slider Ball Bearing Std Disp
 Std Std Disp

OTHER INTERNAL DUMMY INSTRUMENTATION:

L/R Femur Accels (not on 5% dummies)
 L/R Ankle soft bumper to foot stem Long

Dummy Instrumentation - External

CONTACT SWITCHES:

L / Knee Contact
 R / Knee Contact
 Header

STRING POTS:

Pelvis
 L / Knee
 R / Knee

Barrier Load Cell Request

TAM: TO1831

90 Degree Full Frontal Impact

- All Barrier Load Cells (see diagram left)
- X Channels Only
- X,Y Channels Only
- X, Z Channels Only
- All X,Y,Z Channels

X Partial Barrier Load Cells (see bolded diagram left)

- X Channels Only
- X,Y Channels Only
- X, Z Channels Only
- All X,Y,Z Channels

90 Degree Left Full Frontal Impact

- All Barrier Load Cells (see diagram left)
- X Channels Only
- X,Y Channels Only
- X, Z Channels Only
- All X,Y,Z Channels

Partial Barrier Load Cells (see bolded diagram left)

- X Channels Only
- X,Y Channels Only
- X, Z Channels Only
- All X,Y,Z Channels

90 Degree Right Full Frontal Impact

- All Barrier Load Cells (see diagram left)
- X Channels Only
- X,Y Channels Only
- X, Z Channels Only
- All X,Y,Z Channels

Partial Barrier Load Cells (see bolded diagram left)

- X Channels Only
- X,Y Channels Only
- X, Z Channels Only
- All X,Y,Z Channels

List of Test Contacts

TAK: TC1891

	Last name	Phone	Pager	Profs
Requestor	John Fazio	32-31182	JFAZ	JFAZIO1
Approving supervisor	K. Arthurs	39-05156	KART	KARTHURS
Build coordinator	Allen Preston	24-85342	APRE	APRESTO1
Test engineer				
Senior Engineer	Abe Philip	89-41134	APHI	APHILIP
Other	Mary Wroten	33-71739	MWRO	MWROTEN1

	Last name	Phone	Pager	Profs
Seats				
Instrument panel				
Restraints				
Air bag (driver)				
Air bag (passenger)				
Steering column				

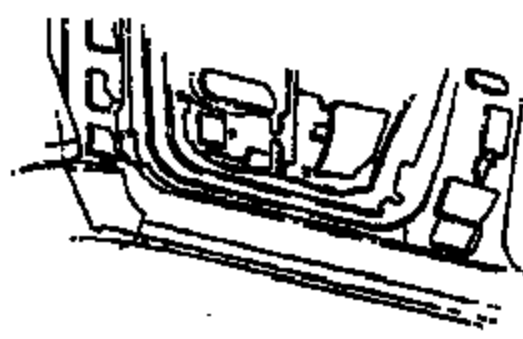
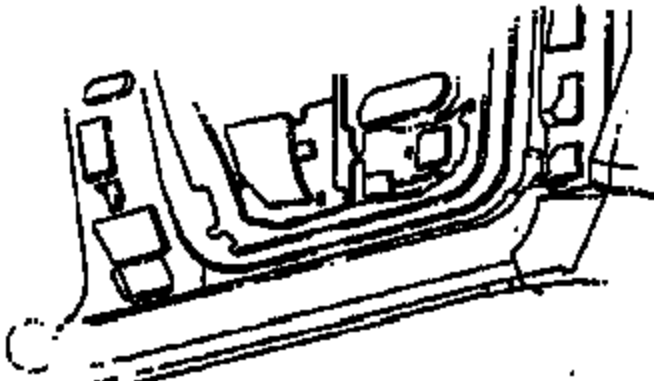
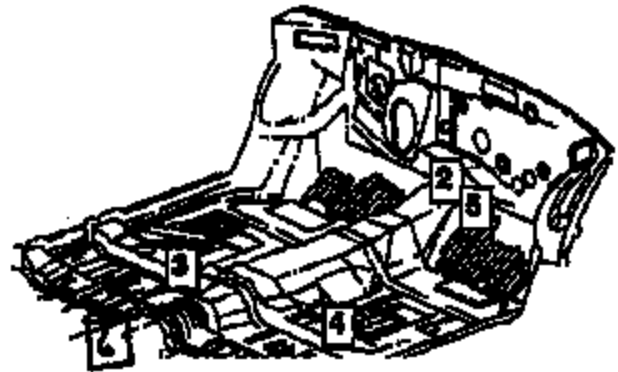
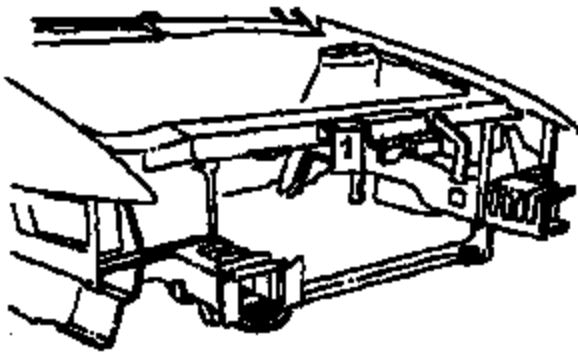
10/21/00	SEDAN	2000	D186	TC1831	
John Fazio		32-31162	T551	F17	
Allen Preston		24-85342		90 Degree Frontal	
1MEFM5585YG600018		N/A		307W148	
SGRP		MID POINT	XX	FULL REAR	
LH FRT	XX	CENTER FRT		RH FRT	XX
LH REAR		CENTER REAR		RH REAR	
VEHICLE DELIVERED TO	D/A		BARRIER		BUILD SITE
ANY QUESTIONS CONTACT:					
PETER J. SIMONE					
PHONE: (313) 59-4800					
PAGER: (313) 705-8993					
DESCRIPTION OF JOB TO BE PERFORMED:					
Conduct 8th% female seat drop according to the New 208 8th % Dummy Seating Procedure					

Program: D186
 Vehicle ID: 1MEPM5665YG600018
 Build level: Production
 at Mode: SO Barrier

SENSOR MAP

TO1831

Engineer: Abe Philip
 Phone #: 594-1134
 Date: 10/28/00
 Time: 1:53pm



Location Name	Type	Output	Sensor Channels only		
			Normal (+/-)	Max/Min	Serial #
1 L/C FRONT SAG SUPPORT_SM	accel	TRAX			Near Front Crash Sensor
2 C/L TNL @ DASH_RCM	accel	TRAX			On RCM
2a C/L TNL @ DASH_VIS1	Visteon RCM1	Sensor	2.5 +/- .5	2.0/3.0	SV005-1
2b C/L TNL @ DASH_VIS2	Visteon RCM2	Sensor	2.5 +/- .5	2.0/3.0	SV005-2
2c C/L TNL @ DASH_VIS3	Visteon RCM3	Sensor	N/A - Not Required		SV005-3
2d C/L TNL @ DASH_VIS4	Visteon RCM4	Sensor	2.5 +/- .5	2.0/3.0	SV005-4
2e C/L TNL @ DASH_VIS5	Visteon RCM5	Sensor	N/A - Not Required		SV005-5
2f C/L TNL @ DASH_VIS6	Visteon RCM6	Sensor	N/A - Not Required		SV005-6
2g C/L TNL @ DASH_VIS7	Visteon RCM7	Sensor	2.5 +/- .5	2.0/3.0	SV005-7
2h C/L TNL @ DASH_VIS8	Visteon RCM8	Sensor	N/A - Not Required		SV005-8
3 L/F FLOOR PAN @ #2 XMBR CTR_SM	accel	TRAX			Near Side Crash Sensor
4 R/F FLOOR PAN @ #2 XMBR CTR_SM	accel	TRAX			Near Side Crash Sensor
5 C/L TNL @ DASH_SM	accel	TRAX			Near RCM

Contacts: Ford: Abe Philip 594-1134
 Visteon: Andy Kilde 755-7605

NOTE: Serial numbers will be updated as parts arrive.

6 C/L BTW SEATS JUST
 (BEHIND PET SEATS)

ACCEL TRAX

A. Philip 12/6/00

Dummy Position Data for TA TC1831 Run 12093

Absolute Dummy Measurements for Run 12093

Position	Type	Measurement Description	Axis	Measurement Value	Units
RIGHT / FRONT	SH3	Leg To IP Left		.6	INCHES
RIGHT / FRONT	SH3	Leg To IP Right		1.1	INCHES
RIGHT / FRONT	SH3	Rocker Targets To Ground Front		7.5	INCHES
RIGHT / FRONT	SH3	Rocker Targets To Ground Rear		7.7	INCHES
RIGHT / FRONT	SH3	Nose To Steering Wheel			INCHES
RIGHT / FRONT	SH3	Nose To Instrument Panel		16.4	INCHES
RIGHT / FRONT	SH3	Instrument Panel To Torso		12.5	INCHES
RIGHT / FRONT	SH3	Steering Wheel To Torso			INCHES
RIGHT / FRONT	SH3	Steering Wheel Top Legs			INCHES
RIGHT / FRONT	SH3	Knee Spread		6.5	INCHES
RIGHT / FRONT	SH3	Seat Back Angle		21.1	INCHES
RIGHT / FRONT	SH3	Pelvic Angle		10.8	INCHES
RIGHT / FRONT	SH3	Head Angle		0	INCHES
RIGHT / FRONT	SH3	Rocker Angle		.4	INCHES
RIGHT / FRONT	SH3	Neck Bracket Angle			INCHES
RIGHT / FRONT	SH3	Bumper Target To Ground			INCHES
LEFT / FRONT	SH3	Leg To IP Left		1.3	INCHES
LEFT / FRONT	SH3	Leg To IP Right		.7	INCHES
LEFT / FRONT	SH3	Rocker Targets To Ground Front		7.2	INCHES
LEFT / FRONT	SH3	Rocker Targets To Ground Rear		7.4	INCHES
LEFT / FRONT	SH3	Nose To Steering Wheel		9.9	INCHES
LEFT / FRONT	SH3	Nose To Instrument Panel			INCHES
LEFT / FRONT	SH3	Instrument Panel To Torso			INCHES
LEFT / FRONT	SH3	Steering Wheel To Torso		3	INCHES
LEFT / FRONT	SH3	Steering Wheel Top Legs		4.2	INCHES
LEFT / FRONT	SH3	Knee Spread		6.7	INCHES
LEFT / FRONT	SH3	Seat Back Angle		28	INCHES
LEFT / FRONT	SH3	Pelvic Angle		20.4	INCHES
LEFT / FRONT	SH3	Head Angle		.2	INCHES
LEFT / FRONT	SH3	Rocker Angle		.2	INCHES
LEFT / FRONT	SH3	Neck Bracket Angle			INCHES

LEFT / FRONT	5H3	Neck Bracket Angle				INCHES
LEFT / FRONT	5H3	Bumper Target To Ground				INCHES

Relative Dummy Measurements for Run 12093

Position	Type	Measurement Description	Axis	Measurement Value	Units
RIGHT / FRONT	5H3	HEAD TO PELVIS	LONG	8.7	INCHES
RIGHT / FRONT	5H3	HEAD TO PELVIS	VERT	35.8	INCHES
RIGHT / FRONT	5H3	HEAD TO PELVIS	LAT	15.3	INCHES
RIGHT / FRONT	5H3	KNEE BOLT TO PELVIS	LONG	-10.2	INCHES
RIGHT / FRONT	5H3	KNEE BOLT TO PELVIS	VERT	18.7	INCHES
RIGHT / FRONT	5H3	KNEE BOLT TO PELVIS	LAT	13.8	INCHES
RIGHT / FRONT	5H3	H-POINT TO PELVIS	LONG	8.4	INCHES
RIGHT / FRONT	5H3	H-POINT TO PELVIS	VERT	13.2	INCHES
RIGHT / FRONT	5H3	H-POINT TO PELVIS	LAT	12.2	INCHES
RIGHT / FRONT	5H3	SHOULDER TO PELVIS	LONG		INCHES
RIGHT / FRONT	5H3	SHOULDER TO PELVIS	VERT		INCHES
RIGHT / FRONT	5H3	SHOULDER TO PELVIS	LAT		INCHES
LEFT / FRONT	5H3	HEAD TO PELVIS	LONG	8.8	INCHES
LEFT / FRONT	5H3	HEAD TO PELVIS	VERT	35.1	INCHES
LEFT / FRONT	5H3	HEAD TO PELVIS	LAT	15.6	INCHES
LEFT / FRONT	5H3	KNEE BOLT TO PELVIS	LONG	-10.2	INCHES
LEFT / FRONT	5H3	KNEE BOLT TO PELVIS	VERT	18.2	INCHES
LEFT / FRONT	5H3	KNEE BOLT TO PELVIS	LAT	12.8	INCHES
LEFT / FRONT	5H3	H-POINT TO PELVIS	LONG	2.8	INCHES
LEFT / FRONT	5H3	H-POINT TO PELVIS	VERT	13.7	INCHES
LEFT / FRONT	5H3	H-POINT TO PELVIS	LAT	11.8	INCHES
LEFT / FRONT	5H3	SHOULDER TO PELVIS	LONG		INCHES
LEFT / FRONT	5H3	SHOULDER TO PELVIS	VERT		INCHES
LEFT / FRONT	5H3	SHOULDER TO PELVIS	LAT		INCHES

Maintained by Jeff Brandimore

12093_TC1831_dummy_position.xls

CRASH NUMBER 12093

BARRIER QUALITY ASSURANCE AND TRACKING FORM

DATA ENGINEER: Name not on list
TEST ORDER NUMBER: TC8031
TEST ENGINEER:
VEHICLE TYPE: D-186
REQUESTED SPEED: 30 MPH
CRASH DATE: 12/08/00
CRASH TIME: 09:29
TOTAL CHANNELS: 147

WB REVIEW ENGINEER: Blanket
SITE: 98
TEST DESCRIPTION: 90 DEG. FRONT FIXED BARRIER (L.C.)
IMPACT TYPE: SINGLE VEHICLE TEST
TEST TYPE: DV
OK TO STRIP DATE: 12/08/00
OK TO STRIP TIME: 14:00
DUMMY CHANNELS: 36

TEST DUMMY INFORMATION

POS	NO.	TYPE	A.B.	RECS	PTSD	OTHER
LF	36	WOM	Y			Y
RF	36	WOM	Y			Y

12093

CHANNEL IDENTIFICATION			EQUIPMENT					ANOMALIES										DESCRIPTION	RESOLUTION	CAT		
TEST CHANNEL	LOCATION	LANS	TRANSDUCER	EXTENSION CABLE	CABLE	CORD PACKAGE	CABLE CHANNEL	NO. DATA	NO. DATA	NO. DATA	NO. DATA	NO. DATA	NO. DATA	NO. DATA	NO. DATA	NO. DATA	NO. DATA	NO. DATA	DATA ENGINEER REMARKS	TECHNICIAN REMARKS	CORR	RETR
								NO. DATA	NO. DATA	NO. DATA	NO. DATA	NO. DATA	NO. DATA	NO. DATA	NO. DATA	NO. DATA	NO. DATA	NO. DATA				
72	LC RAO SUPPORT SH #1	LCMS	4712		CEN-1	3240	1												25-010ms	Other: bad.	2	2
117	BARRIER PLATE 04020 SZ A LO PK		44574			10204	1												data into 2.5ms	OTHER:	2	1
118	BARRIER PLATE 04020 SZ A LO PK		44575			10207	1												data into 2.5ms	OTHER:	2	1
121	BARRIER PLATE 04020 SZ D LO PK		44582			10204	2												data into 2.5ms	OTHER:	2	1
122	BARRIER PLATE 04020 SZ D LO PK		44583			10204	3												data into 2.5ms	OTHER:	2	1
123	BARRIER PLATE 04020 SZ D LO PK		44584			10207	2												data into 2.5ms	OTHER:	2	1
124	BARRIER PLATE 04020 SZ D LO PK		44585			10207	3												data into 2.5ms	OTHER:	2	1
129	BARRIER PLATE 04020 SZ D LO PK		44594			10204	4												data into 2.5ms	OTHER:	2	1
130	BARRIER PLATE 04020 SZ D LO PK		44595			10204	5												data into 2.5ms	OTHER:	2	1
131	BARRIER PLATE 04020 SZ D LO PK		44596			10207	4												data into 2.5ms	OTHER:	2	1
132	BARRIER PLATE 04020 SZ D LO PK		44597			10207	5												data into 2.5ms	OTHER:	2	1
137	BARRIER PLATE 04040 SZ B LO PK		44606			10204	6												data into 2.5ms	OTHER:	2	1
138	BARRIER PLATE 04040 SZ C LO PK		44607			10204	7												data into 2.5ms	OTHER:	2	1
139	BARRIER PLATE 04040 SZ C LO PK		44608			10207	6												data into 2.5ms	OTHER:	2	1
140	BARRIER PLATE 04040 SZ C LO PK		44609			10207	7												data into 2.5ms	OTHER:	2	1
145	BARRIER PLATE 04020 SZ D LO PK		44616			10204	8												data into 2.5ms	OTHER:	2	1

INDICATE BOX NUMBER, POWER CABLE, CHANNELS/CABLES CABLE (IF THESE ARE ON CABLE FEEDER)

CRTS 0012093



"RECORD COPY"
 Schedule No. 7-4-13
 Retain Until 2021

FINAL TEST REPORT

CONFIDENTIAL

**Global Test Operations
 Research and Vehicle Technology**

TO:	B. Hammond	Test Order No.	T-C2148
		Work Task W. O. No.	ZB152
		Test Date	1/20/01
		Date Reported	3/15/01
		Sheet	1 of 4

SUBJECT: Crash Test 12141 (90° Front Fixed Barrier Impact at 33.1 ± 0.4 mph, 56.5 ± 0.6 km/h)
 - 2000 Taurus 4-Door Wagon

REQUESTED BY: Vehicle Crash Safety Department, Research and Vehicle Technology - B. Hammond

OBJECT: To obtain development data relative to child seat evaluation.

SUMMARY OF TEST RESULTS: See Section 1.0 for injury criteria data.

R. Olin
 Engineering Technologist

Concur: **M. Hamilton**
 Section Supervisor
 Operations Engineering Section

VEHICLE DATA:

Make and Model 2000 Taurus 4-Door Wagon

ID Numbers IFAPPS8SIYA100113, 307-T-996

Power Train 3.0L, EFI, Automatic Transaxle

Fuel Tank(s) Test Condition: Removed

Front Seat(s) Type: Bucket
Cover: Cloth
Tracks/Position: Manual/Mechanical Mid
Seat Backs/Position: Adjustable/Not Measured
Head Restraints/Position: Adjustable/Up

Rear Seat(s) Type: Bench
Cover: Cloth

Restraint System LF: 3-Point Continuous Loop Active Belt and
Steering Wheel Air Bag
RF: 3-Point Continuous Loop Active Belt and
Instrument Panel Air Bag
LR: Forward Facing Fisher-Price Child Seat with
ISOFIX Attachment and Child Seat Harness
RR: Forward Facing Britax Child Seat with
ISOFIX Attachment and Child Seat Harness

Occupants LF & RF: 50th Percentile Male, Hybrid II,
Uninstrumented
LR & RR: 3-Year Old Hybrid III, Instrumented

Test Weight Front: 2182 lb (990 kg)
Rear: 1437 lb (652 kg)
Total: 3619 lb (1642 kg)

Tires Front: P215/60R16 33 psi (241 kPa)
Rear: P215/60R16 33 psi (241 kPa)
Spare: Removed

Significant Content or Accessories Air Conditioning, Power Steering, Power Brakes, Tilt Steering Wheel

GENERAL TEST COMMENTS:**1. Test Procedure**

The test was performed according to the following Corporate test procedure(s):

Occupant Crash Protection, CBP-ST-25 dated March 3, 1998.

2. Remarks

Crash movies, pre- and post-crash still images of the test vehicle and copies of this report are available through the Operations Engineering Section, Safety Laboratories Department, GTO. The crash still images are stored and archived on CD ROMs. The file names of the still images are listed under crash number and a three digit sequence number which are 12141001 through 12141009.

TEST RESULTS:**1.0 Occupant Injury Data (FMVSS 208)**

Time histories of the dummy instrumentation are included in this report.

Time histories of any requested derived data (i.e. integrations, etc.) were given to the requesting activity and are not included in this report.

2.0 Vehicle Crash Film Analysis and/or Instrumentation Data

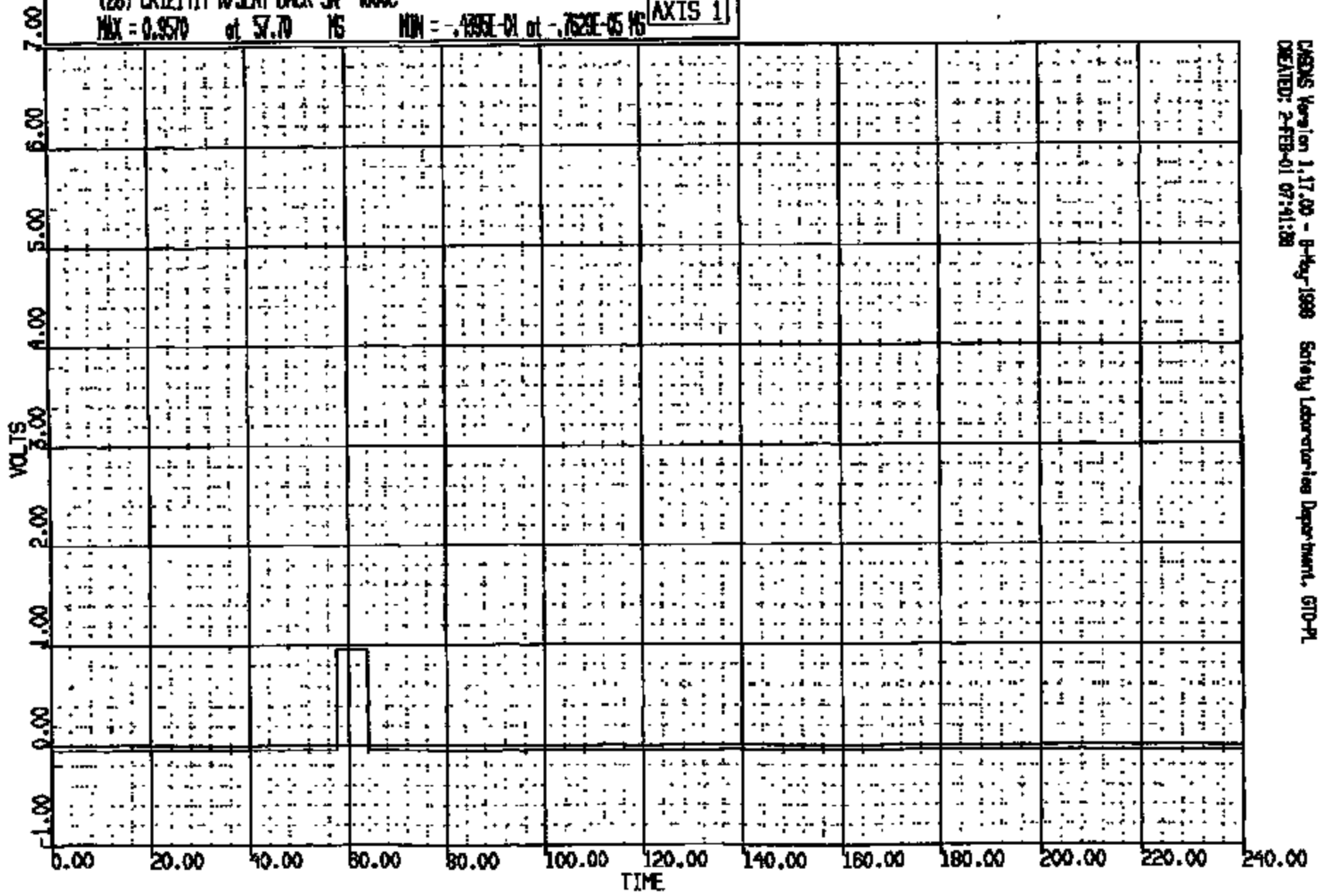
Time histories of the vehicle accelerations and other instrumentation are included in this report.

Time histories of any requested derived data (i.e. integrations, etc.) were given to the requesting activity and are not included in this report.

CP #: 12141 TO: TC2148 DATE: 010121 17:20:32
3000 TAURUS

(28) CR12141T W/SEAT BACK SH 400C
MAX = 0.9570 of 57.70 MS MIN = -.435E-01 of -.762E-05 MS

AXIS 1



CRSIS Version 1.17.00 - 8-May-1998 Safety Laboratories Department, GTD-PL
CREATED: 2-FEB-01 07:41:28

CRIS 0012141

CR #: 12141 TO: TC2148 DATE: 010120 7:20:22
2000 TAURUS

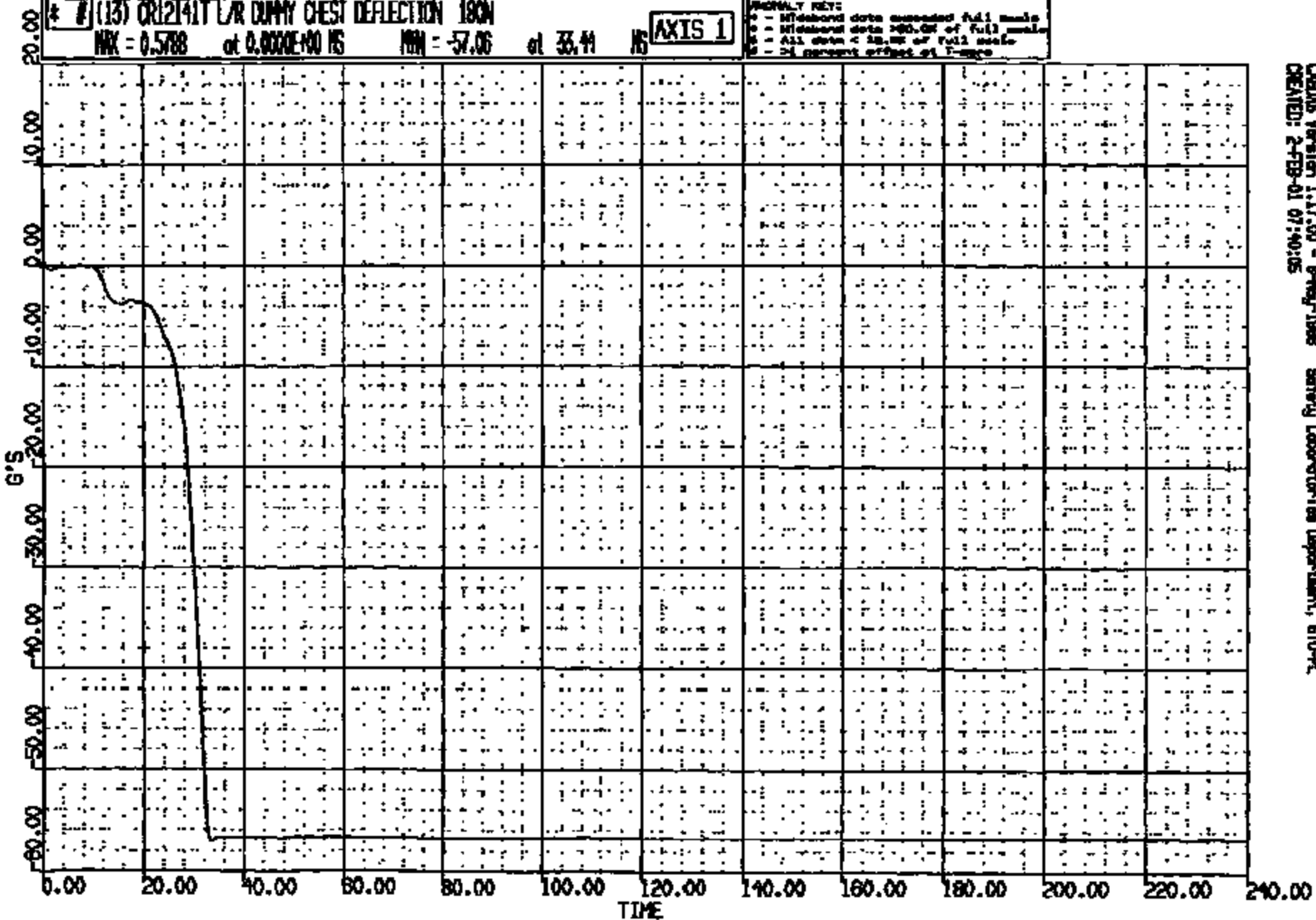
(13) CR12141T L/R DUMMY CHEST DEFLECTION 180N

MAX = 0.5788 at 0.000E+00 NS MIN = -57.06 at 33.44 NS

AXIS 1

SCALY KEYS

- Midboard data exceeded Adj Scale
- Midboard data >90.0% of Full scale
- All data < 20.0% of Full scale
- 24 percent offset of range



CADDS Version 1.17.00 - 9-May-1998 Safety Laboratories Department, 610-PL
CREATED: 2-FEB-01 07:40:05

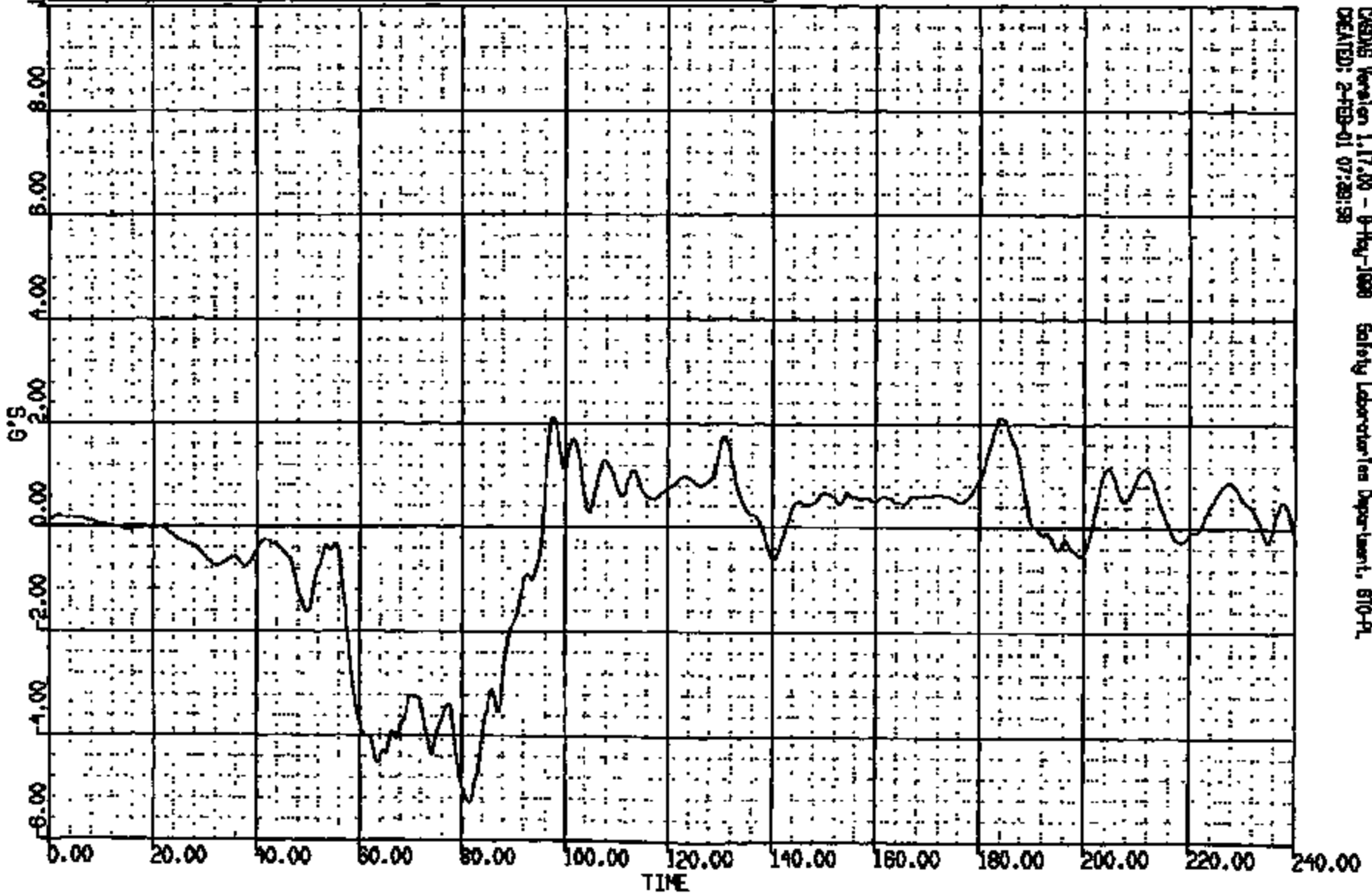
CRTS 0012141

CR: R: 12141 TO: TC2148 DATE: 01012 17:20:52
2000 TALRUS

(12) CR12141T L/R DUMMY CHEST LAT 180N

MAX = 2.125 at 183.9 MS MIN = -5.287 at 81.60 MS

AXIS 1



CASMS Version 1.17.00 - 9-May-1999 Safety Laboratories Department, 810-PL
CREATED: 2-FEB-01 07:29:59

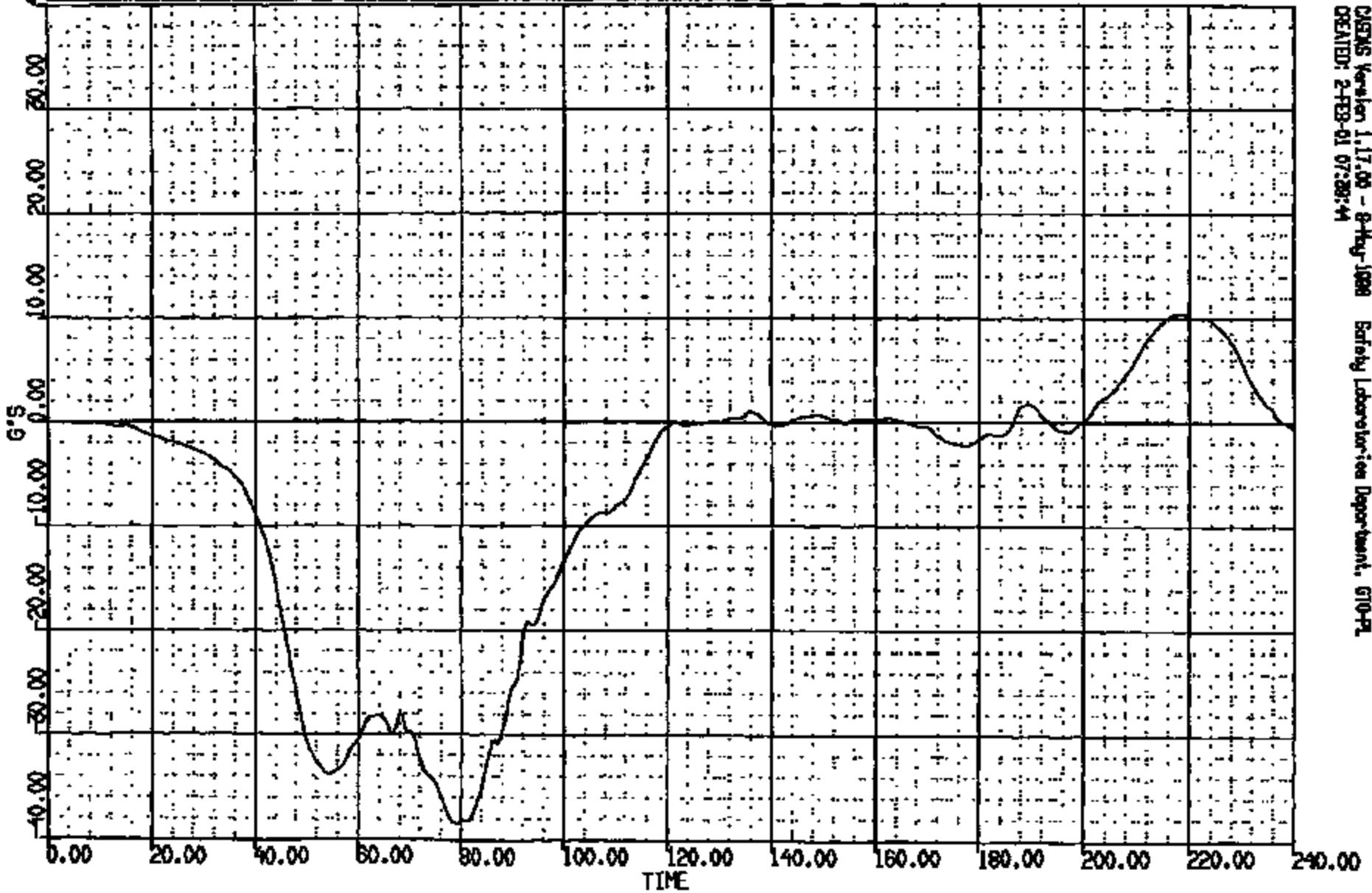
CRTS 0012141

O: R: 12141 TO: TC2148 DATE: 01012 17:20:52
2000 TAURUS

(10) CR12141T L/R DUMMY CHEST LONG 180N

MAX = 30.41 at 218.1 MS MIN = -38.94 at 79.12 MS

AXIS 1

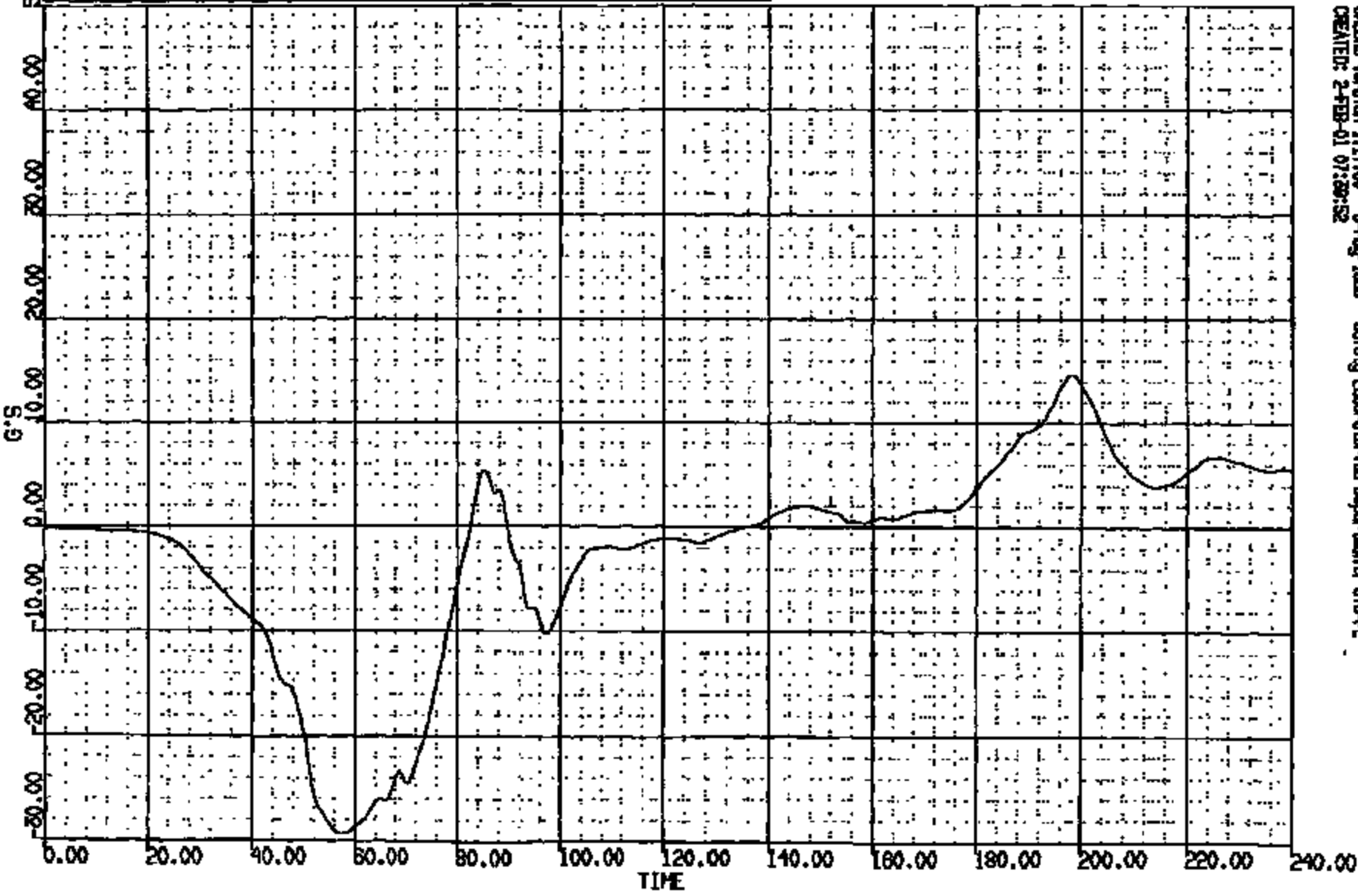


CRSIS Version 1.17.00 - 8-Aug-1998 Safety Laboratories Department, G10-PL
CREATED: 2-FEB-01 07:28:44

CRIS 0012141

C. R: 12141 TO: TC2148 DATE: 01012 17:20:52
8000 TAURUS

(1) CR12141T L/R DUMMY CHEST VERT (80N)
MAX = 14.65 at 198.1 NS MIN = -29.34 at 57.44 NS **AXIS 1**



CASUS Version 1.17.00 - 8-May-1998 Safety Laboratories Department, GTO-PL
CREATED: 2-FEB-01 07:00:52

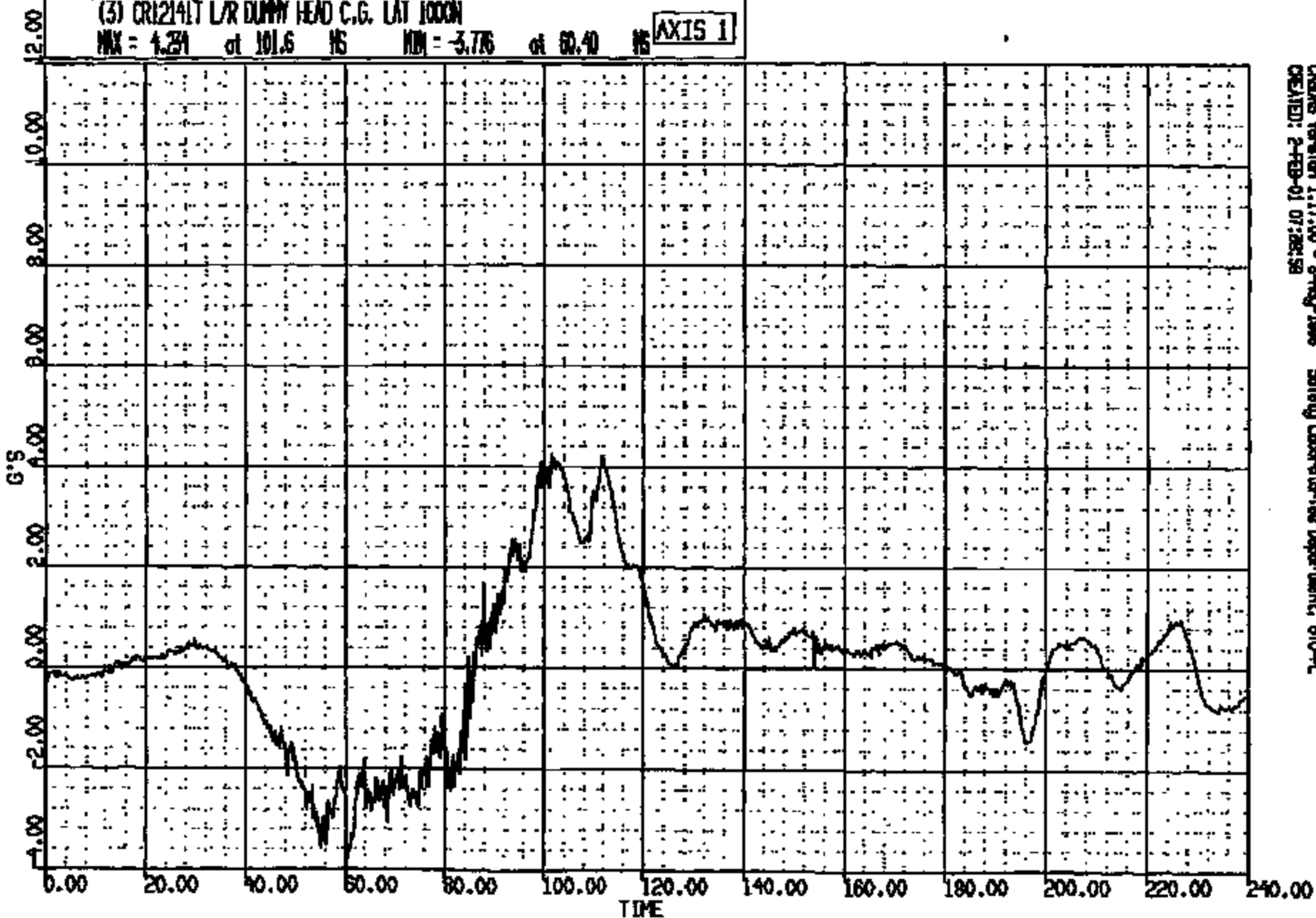
CRIS 0012141

C: R: 12141 TO: TC2148 DATE: 010121 17:20:32
2000 TAURUS

(3) CR12141T L/R DUMMY HEAD C.G. LAT 1000N

MAX = 4.291 at 101.6 HS MIN = -3.776 at 60.40 HS

AXIS 1



CRASH Version 1.17.00 - 8-May-1998 Safety Laboratories Department, 610-PL
CREATED: 2-FEB-01 07:28:59

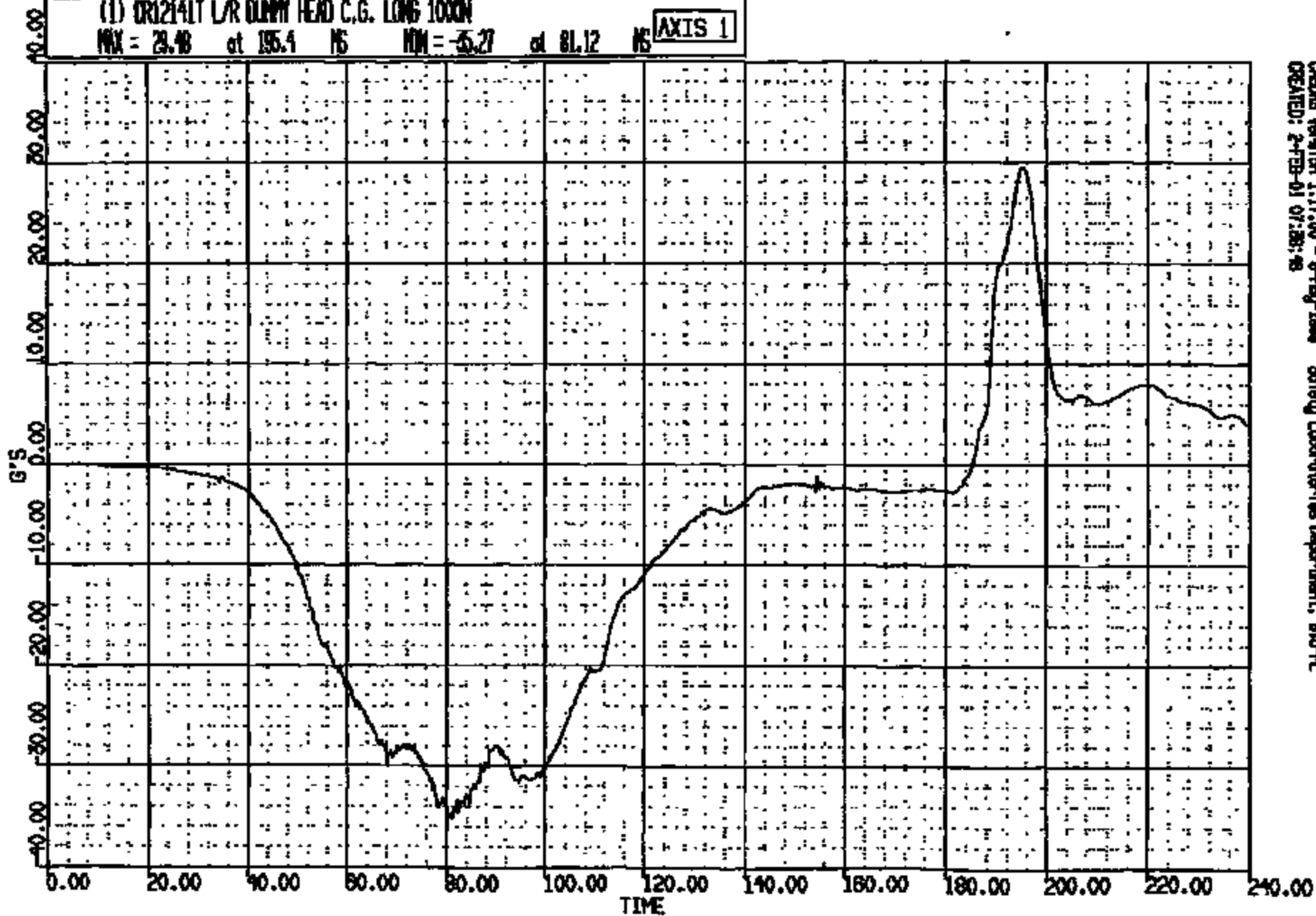
CR12141

CP: 12141 TO: TC2148 DATE: 010120 17:20:52
2000 TAURUS

(1) CR12141T L/R DUMMY HEAD C.G. LONG 1000N

MAX = 28.48 at 195.4 MS MIN = -5.27 at 81.12 MS

AXIS 1

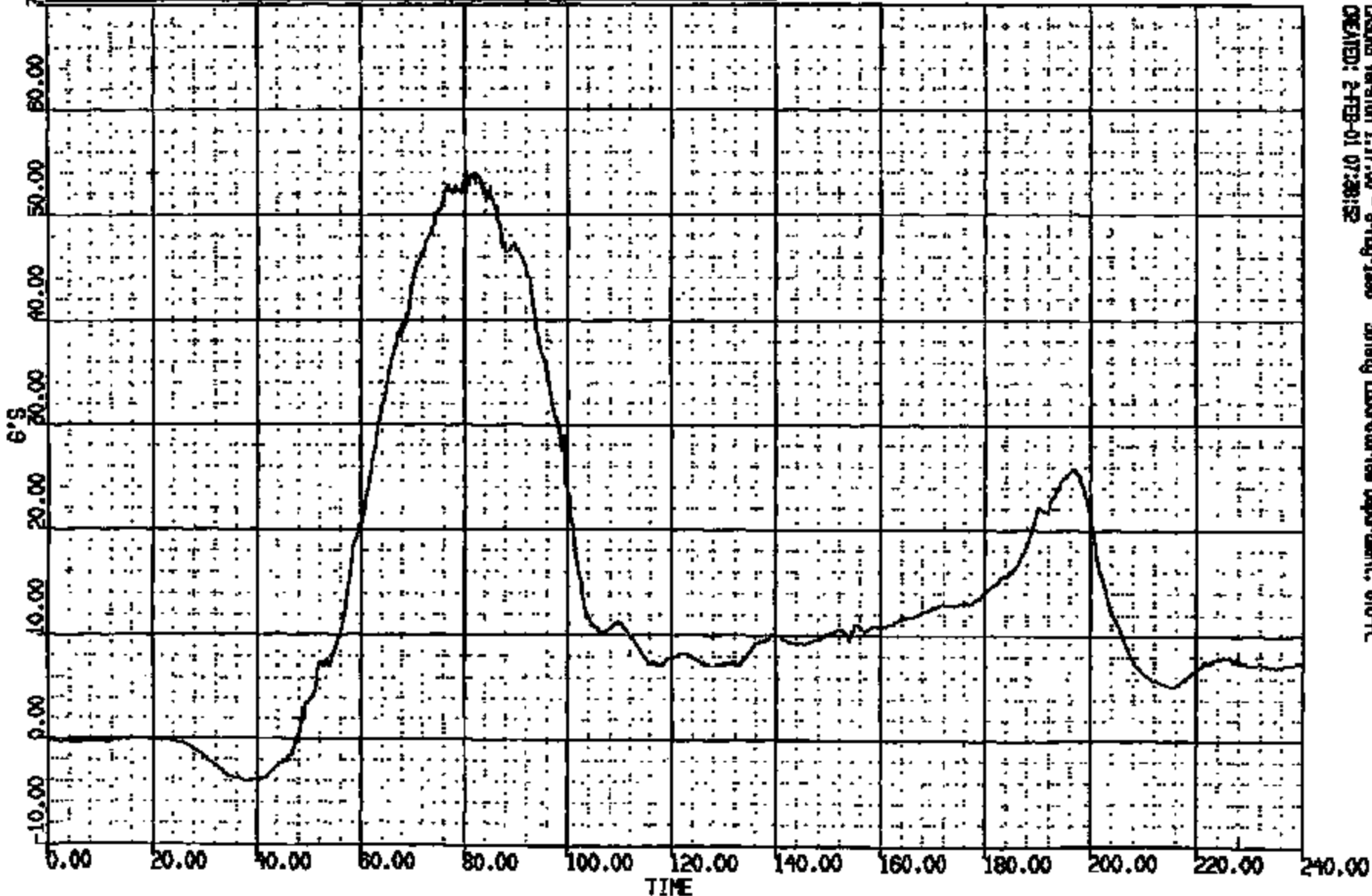


CRSIS Version 1.17.00 - 8-May-1998
CREATED: 2-FEB-01 07:58:48
Biody Laboratories Department, 610-PL

CRIS 0012141

01 K: 12141 TO: TC2148 DATE: 01018 17:20:32
2000 TAURUS

(2) CR12141T L/R DUMMY HEAD C.G. VERT 1000N
MAX = 51.16 at 82.32 NS MIN = -1.092 at 38.32 NS **AXIS 1**

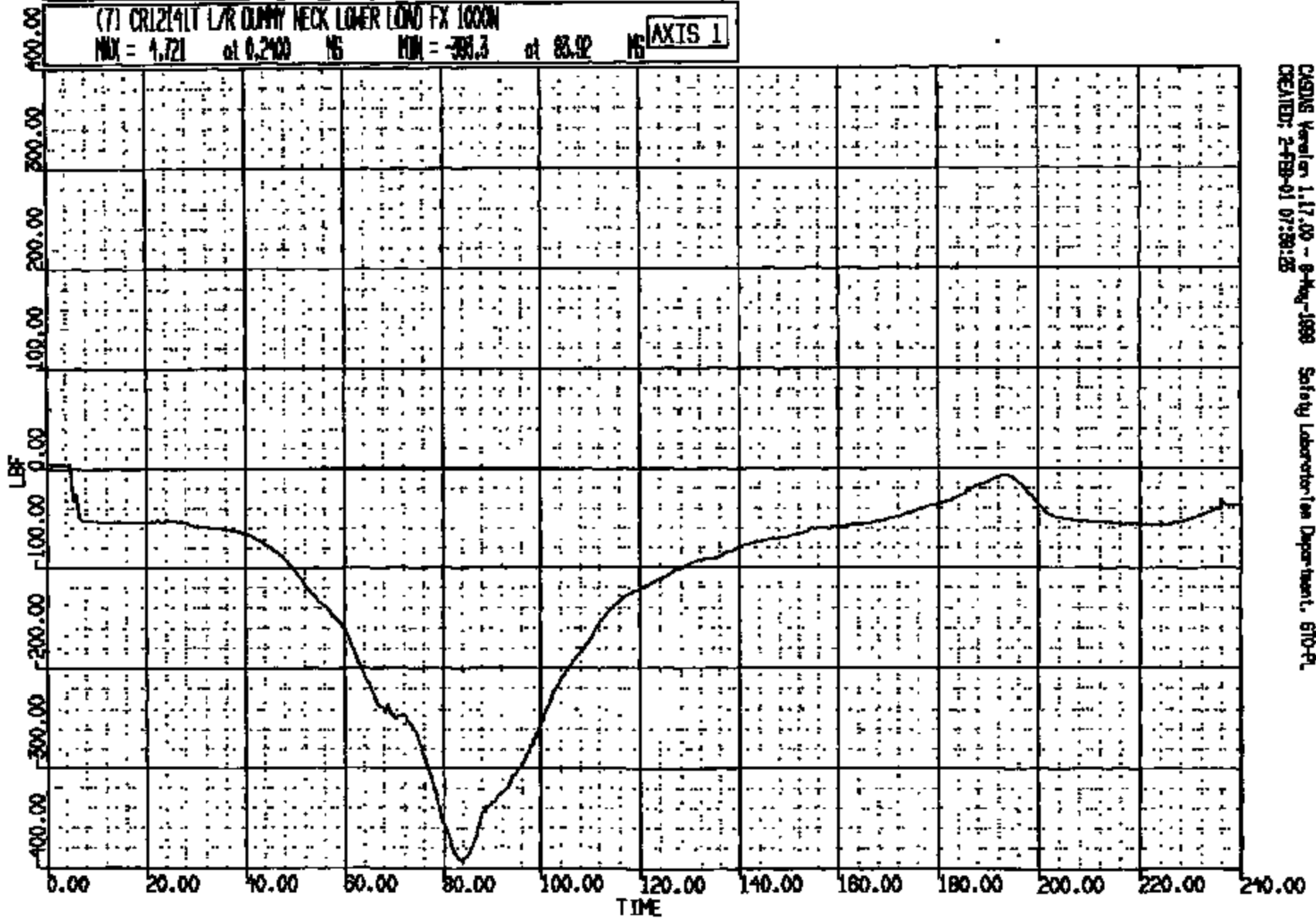


CRAMS Version 1.17.00 - 8-May-1998 Safety Laboratories Department, 610-PL
CREATED: 2-FEB-01 07:28:52

CR12141

01 = 12141 TO: TC2148 DATE: 01012 17:20:32
2000 TAURUS

(7) CR12141T L/R DUMMY NECK LOWER LOND FX 1000N
MAX = 4.721 at 0.2100 NS MIN = -398.3 at 83.92 NS **AXIS 1**

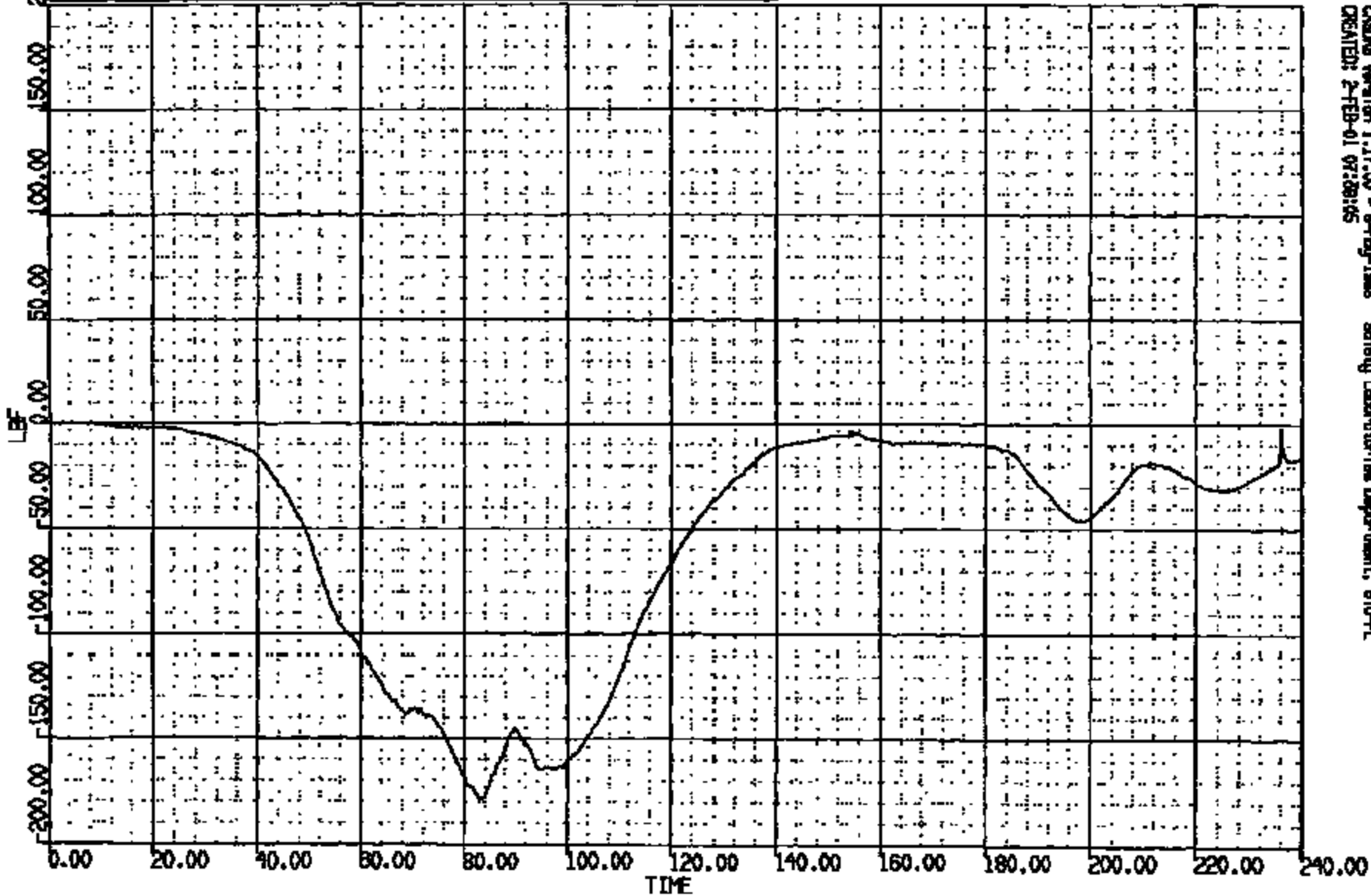


CASING Version 1.17.00 - 8-May-1998 Safety Laboratories Department, 610-PL
CREATED: 2-FEB-01 07:59:25

CRTS 0012141

CP: A: 12141 TO: TC2148 DATE: 01012 17:20:32
8000 TAURUS

(4) CR12141T L/R DUMMY NECK UPPER LOAD FX 1000N
MAX = 0.7056 at 4.00 MS MIN = -179.2 at 82.80 MS **AXIS 1**

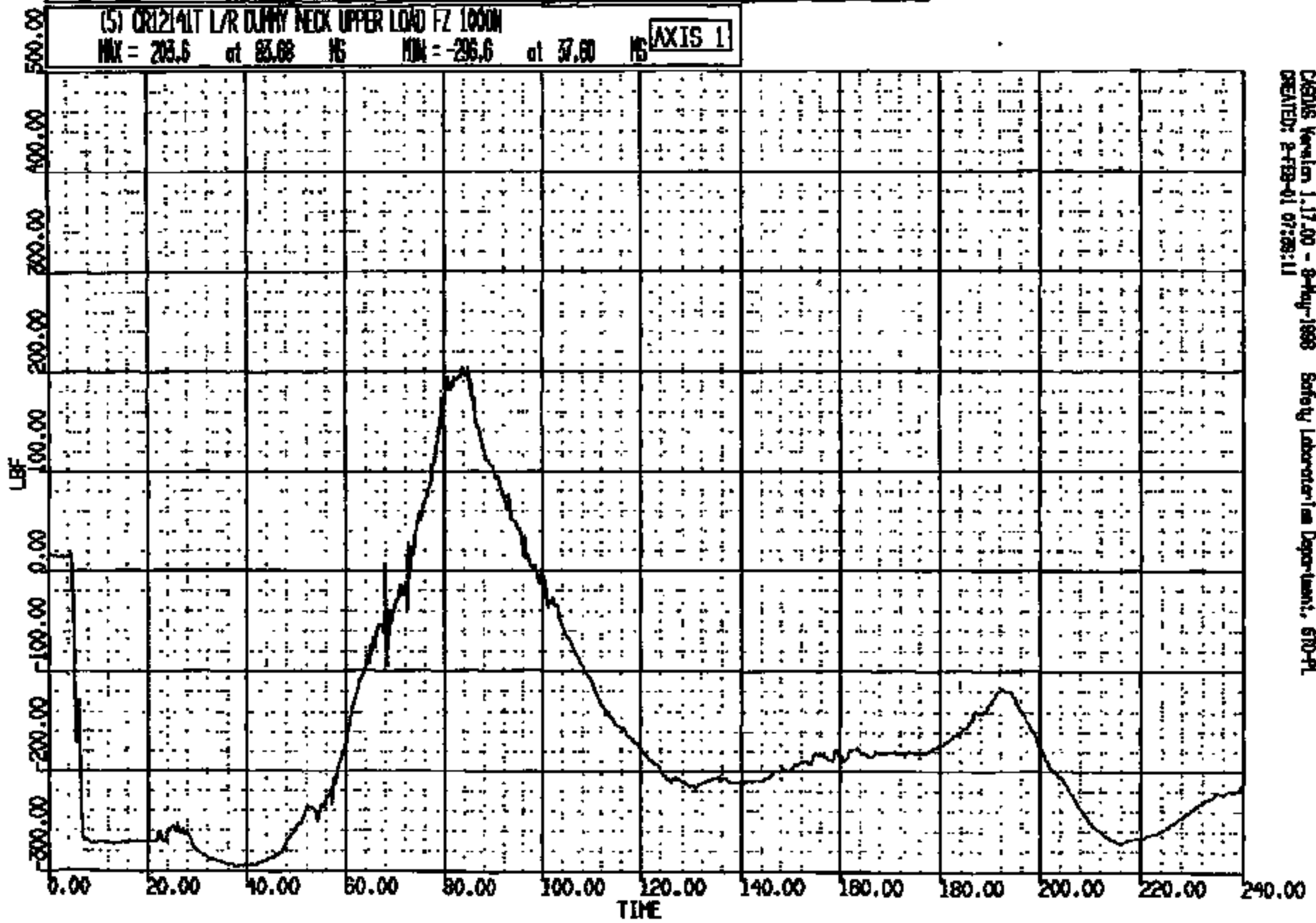


CSDMG Version 1.17.00 - 8-May-1998 Safety Laboratories Department, STD-PL
CREATED: 2-FEB-01 07:28:05

CR12141

C. R: 12141 TO: TC2148 DATE: 01012 17:20:52
8000 TAURUS

(S) CR12141T L/R DUFFY NECK UPPER LOAD FZ 1000N
MAX = 205.6 at 83.08 MS MIN = -205.6 at 37.60 MS **AXIS 1**

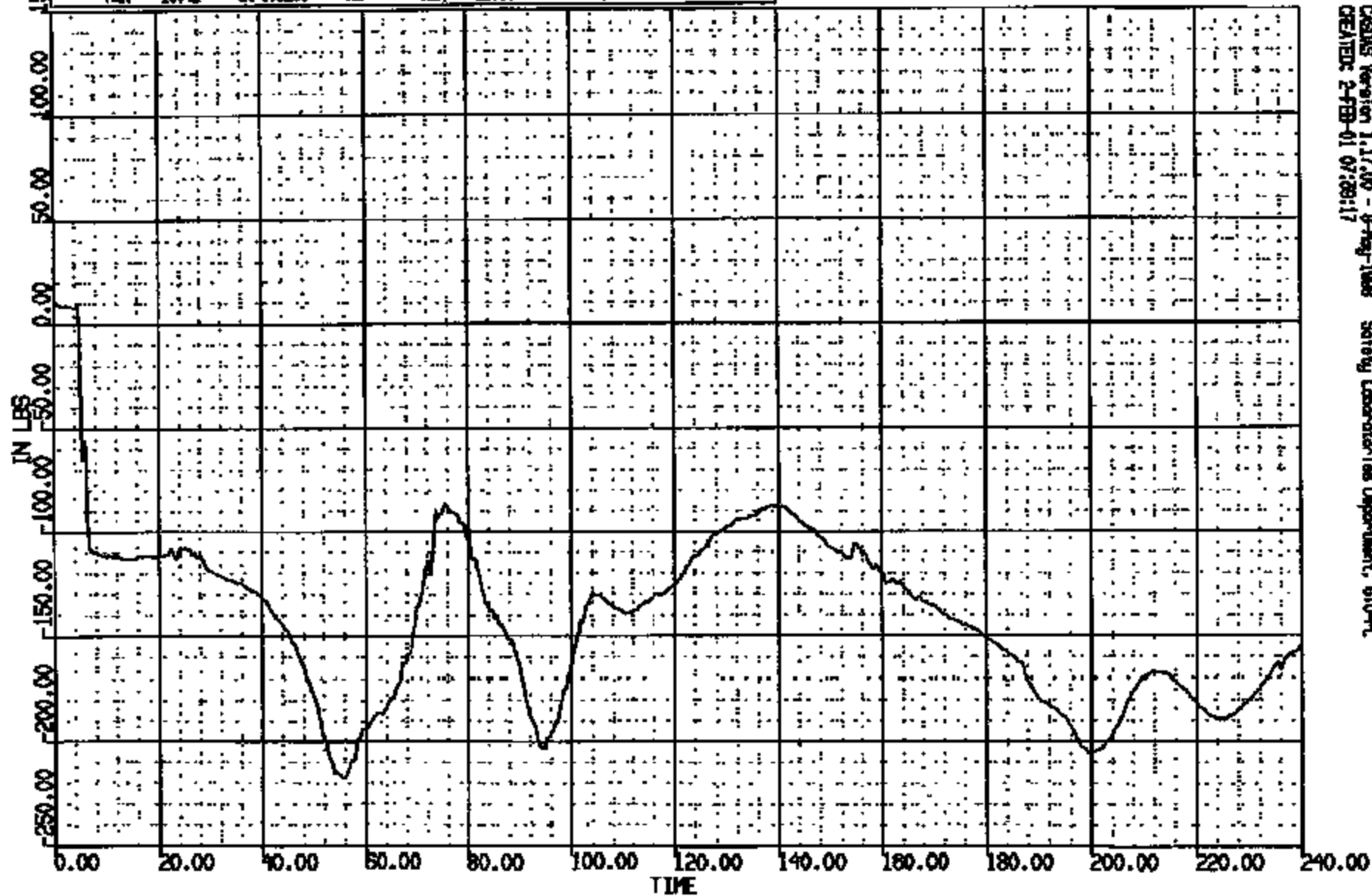


CRS08 Version 1.17.00 - 8-May-1998 Safety Laboratory Department, STD-PL
CREATED: 2-FEB-01 07:28:11

CRTS 0012141

C R = 12141 TO: TC2148 DATE: 01012 17:20:52
2000 TAURUS

(S) CR12141T L/R DUMM NECK UPPER LOAD BY 600N
MAX = 10.42 at 0.3200 NS MIN = -217.8 at 55.92 NS **AXIS 1**



CASAS Version 1.17.00 - 9-May-1998 Safety Laboratories Department, 610-PL
CREATED: 2-FEB-01 07:28:17

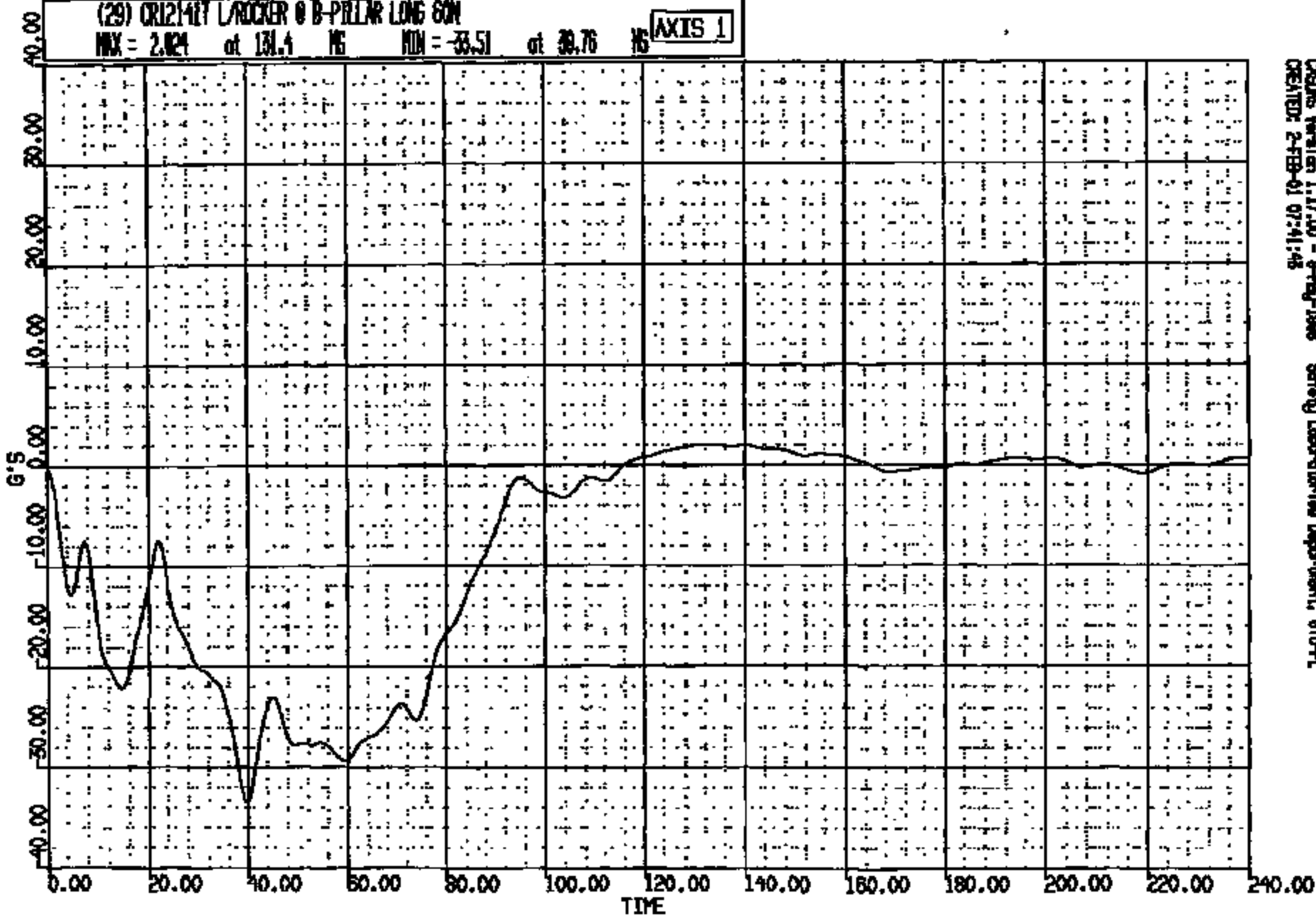
CRTS 0012141

CR: 12141 TO: TC2148 DATE: 01018 17:20:32
2000 TAURUS

(29) CR121417 L/ROCKER @ B-PILAR LONG 60N

MAX = 2.824 at 131.4 NS MIN = -33.51 at 39.76 NS

AXIS 1



CASDS Version 1.17.00 - 9-May-1998 Safety Laboratories Department, GTO-PL
CREATED: 2-FEB-01 07:41:45

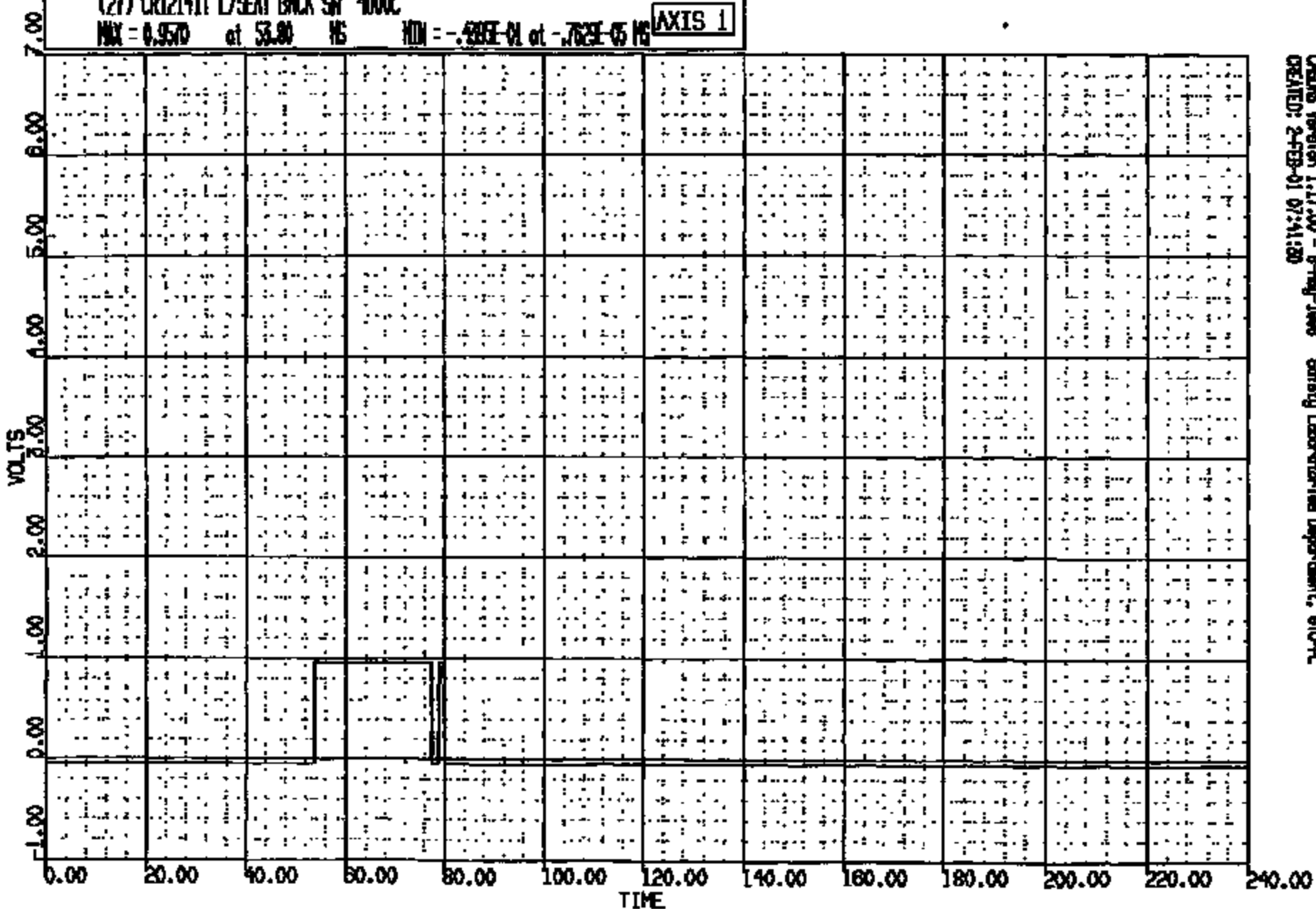
CRIS 0012141

CI: R: 12141 TO: TC2148 DATE: 01012 17:20:32
2000 TAURUS

(27) CR12141T L/SEAT BACK SH 400C

MAX = 0.9570 at 53.00 MS MIN = -.783E-01 at -.762E-05 MS

AXIS 1



CRASH Version 1.17.00 - 8-May-1998 Safety Laboratories Department, SIO-H
CREATED: 2-FEB-01 07:41:20

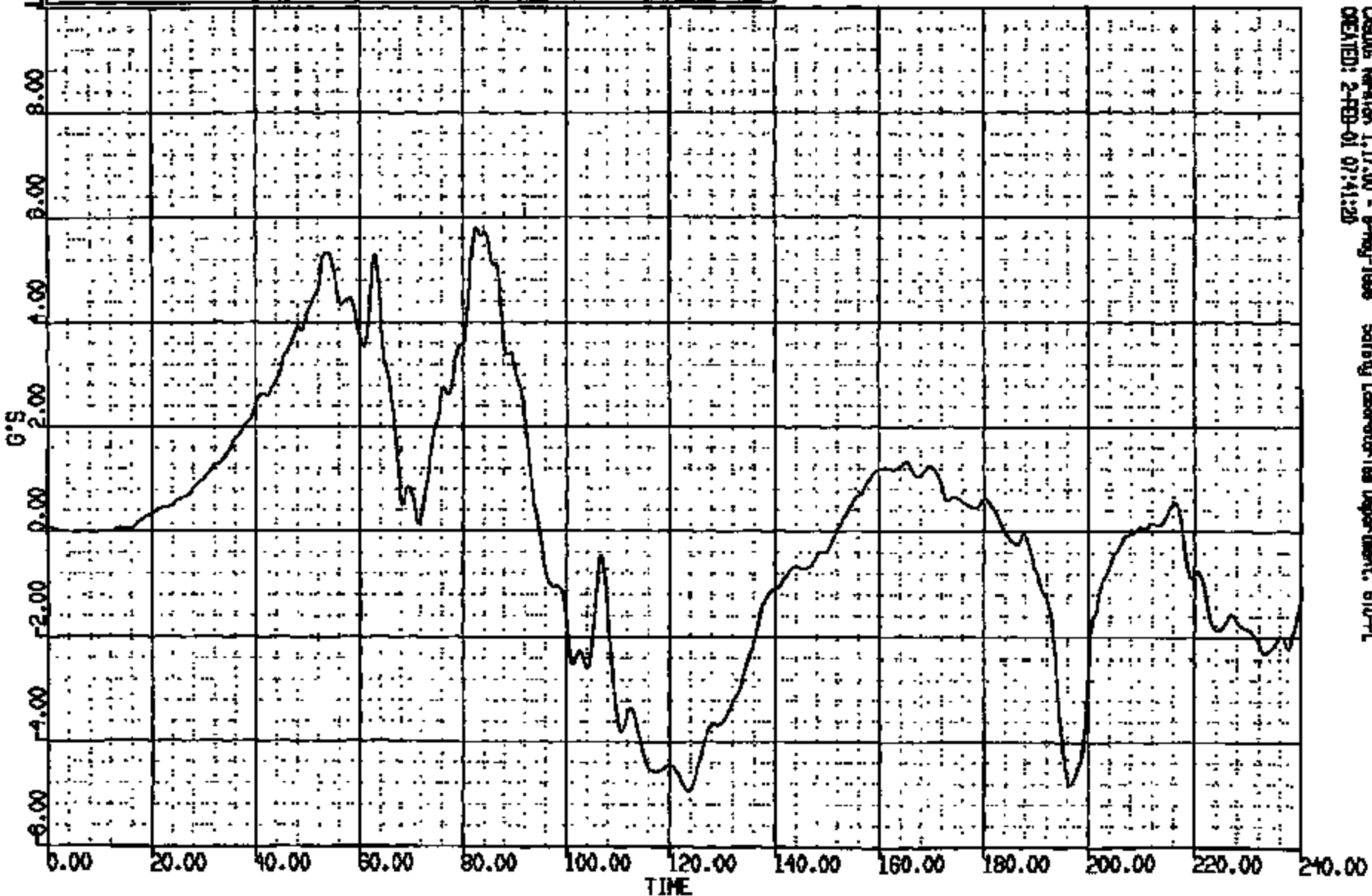
CRTS 0012141

CP #: 12141 TO: TC2148 DATE: 010187 17:20:32
2000 TAURUS

(25) CR12141T R/R DUMMY CHEST LAT 180N

MAX = 5.784 at 82.61 MS MIN = -4.911 at 123.6 MS

AXIS 1



CASIDE Version 1.17.00 - 9-May-1988 Safety Laboratories Department, STD-PL
CREATED: 2-FEB-01 07:41:20

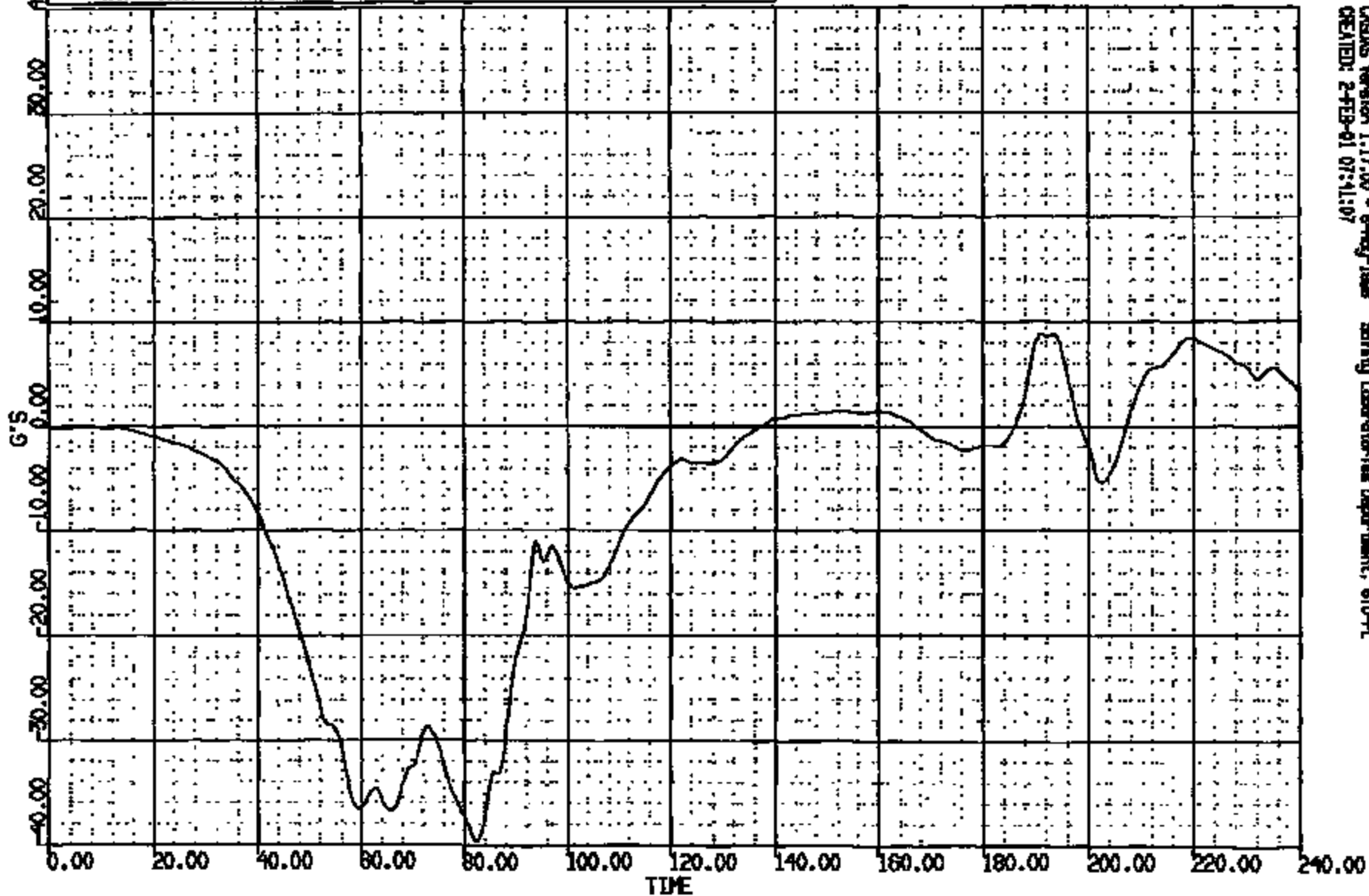
CRTS 0012141

CRIS #: 12141 TO: TC2148 DATE: 01012 17:20:32
2000 TAURUS

(23) CR12141T R/R DUMMY CHEST LONG 180N

MAX = 8.818 at 190.9 MS MIN = -39.64 at 82.40 MS

AXIS 1



CRISIS Version 1.17.00 - 8-May-1998 Safety Laboratories Department, 610-PI
CREATED: 2-FEB-01 07:41:07

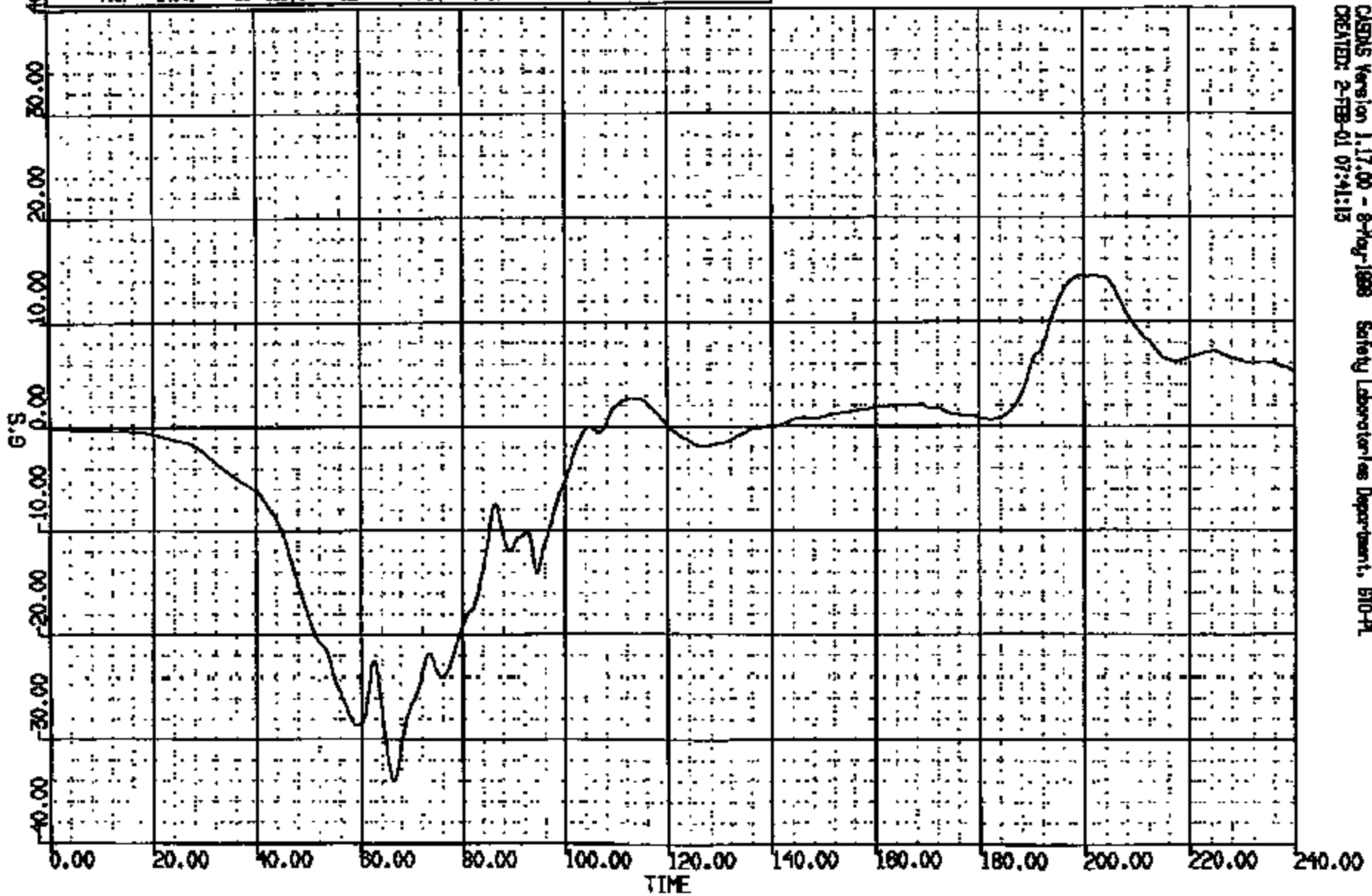
CRIS 0012141

U. RT 12141 TO: TC2148 DATE: 01012 17:20:52
2000 TAURUS

(24) CR12141T R/R DUMMY CHEST VERT 180N

MAX = 14.98 at 199.4 MS MIN = -31.03 at 66.48 MS

AXIS 1



CRSIS Version 1.17.00 - 8-May-1998 Safety Laboratories Department, BTU-PL
CREATED: 2-FEB-01 07:41:13

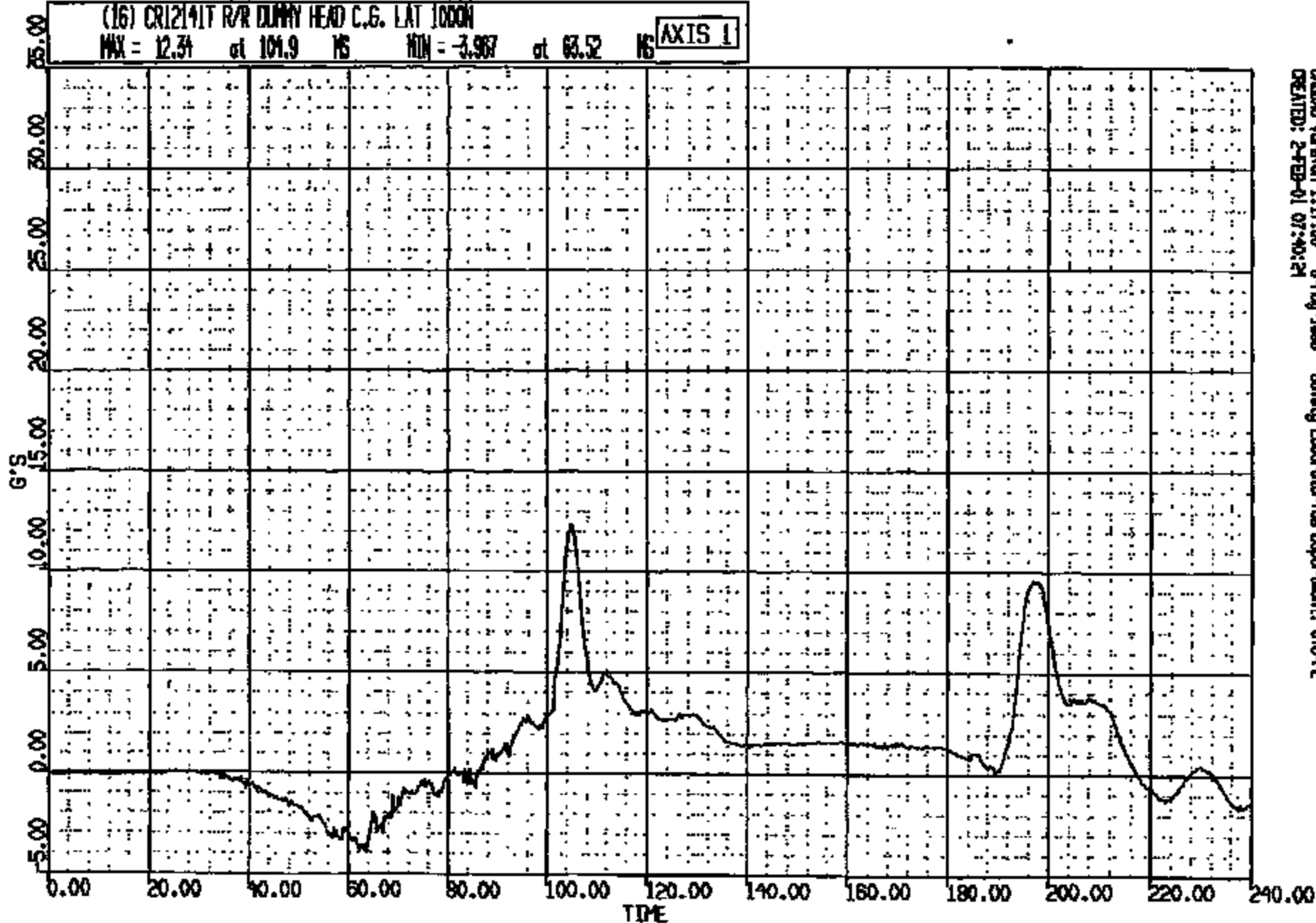
CRIS 0012141

ID: R: 12141 TO: TC2148 DATE: 01012 17:20:52
8000 TAURUS

(16) CR12141T R/R DUMMY HEAD C.G. LAT 1000N

MAX = 12.31 at 104.9 MS MIN = -3.967 at 63.52 MS

AXIS 1

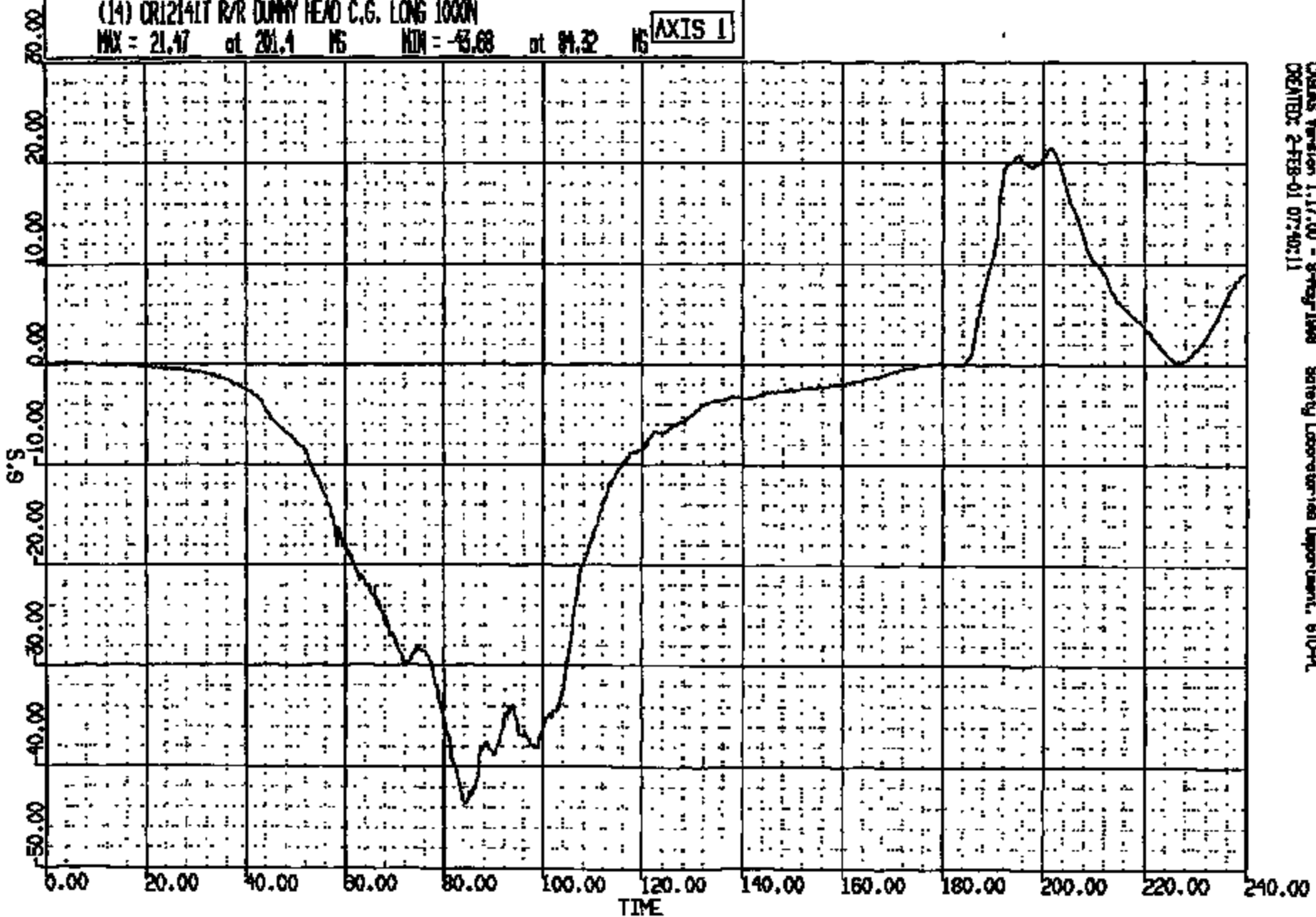


CRSAS Version 1.17.00 - 8-May-1988 Safety Laboratories Department, G10-PL
CREATED: 2-FEB-01 07:40:21

CRIS 0012141

ID: R: 12141 TO: TC2148 DATE: 01012 17:20:52
2000 TAURUS

(14) CR12141T R/R DUMMY HEAD C.G. LONG 1000N
MAX = 21.47 at 201.4 MS MIN = -43.68 at 81.32 MS **AXIS 1**



CRAMS Version 1.17.00 - 8-May-1998 Safety Laboratories Department, 610-PL
CREATED: 2-FEB-01 07:40:11

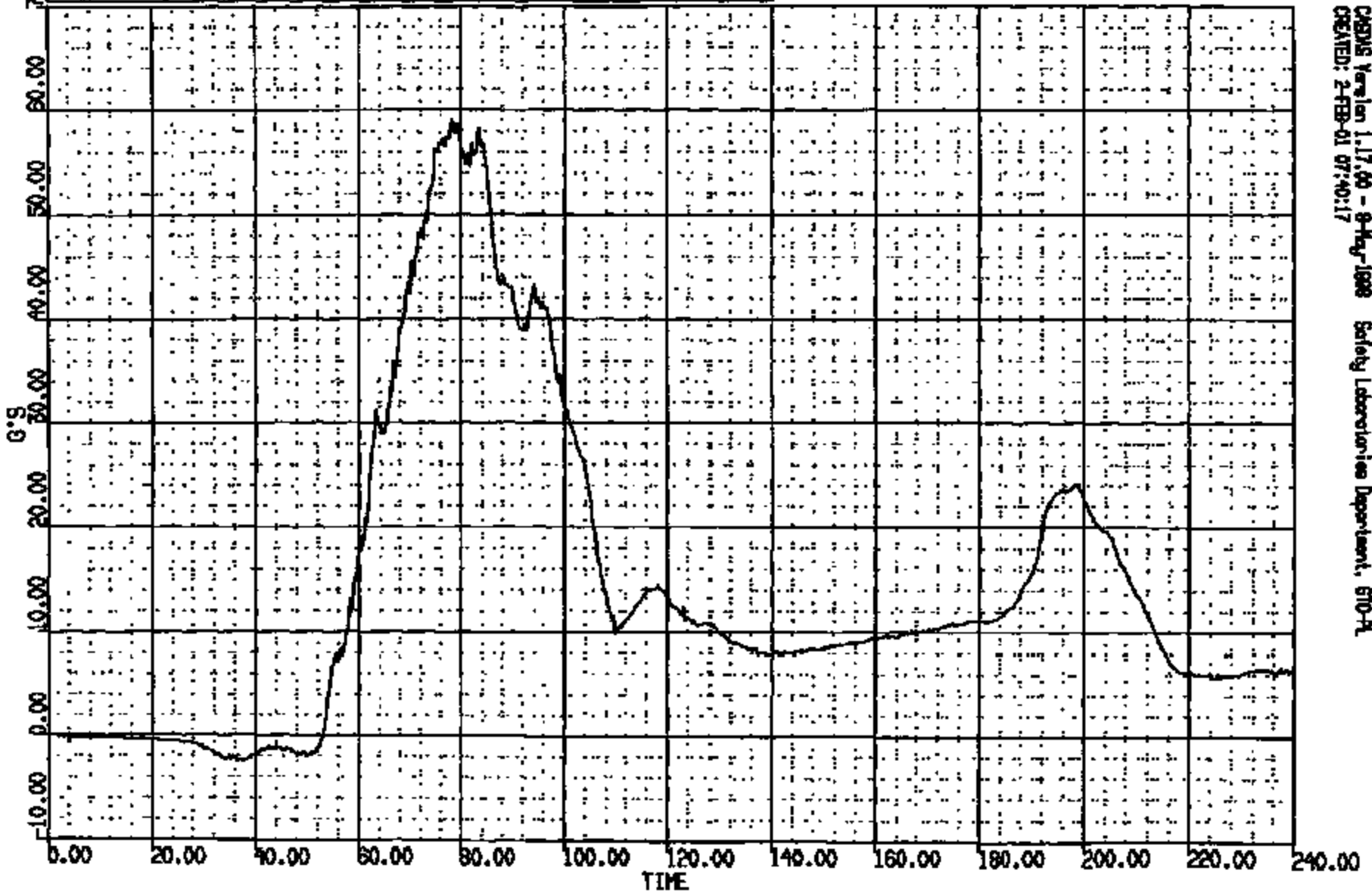
CRTS 0012141

CR: 12141 TO: TC2142 DATE: 010121 17:20:32
2000 TAURUS

(15) CR12141T R/R DUMMY HEAD C.G. VERT 1000N

MAX = 58.07 at 78.40 NS MIN = -2.483 at 51.76 NS

AXIS 1

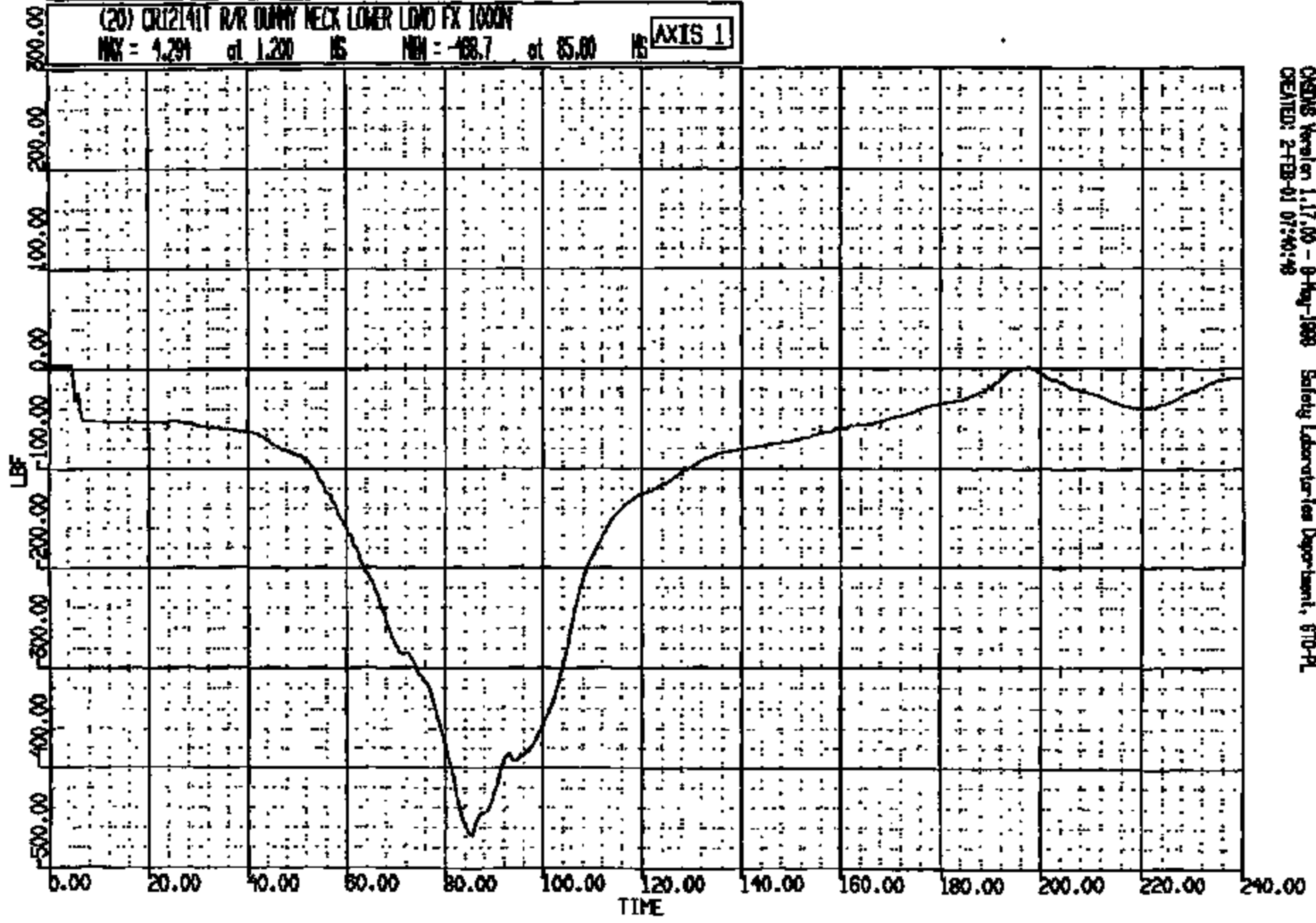


CASDS Version 1.17.00 - 9-May-1998 Safety Laboratories Department, STD-A
CREATED: 2-FEB-01 07:40:17

CRIS 0012141

CR: 12141 TO: TC2148 DATE: 01018 17:20:32
2000 TAURUS

(20) CR12141T R/R DUMMY NECK LOWER LIND FX 1000N
MAX = 4.291 at 1.200 IS MIN = -488.7 at 85.00 IS **AXIS 1**



CRSIS Version 1.17.00 - 9-May-1998 Safety Laboratories Department, 610-PL
CREATED: 2-FEB-01 07:40:49

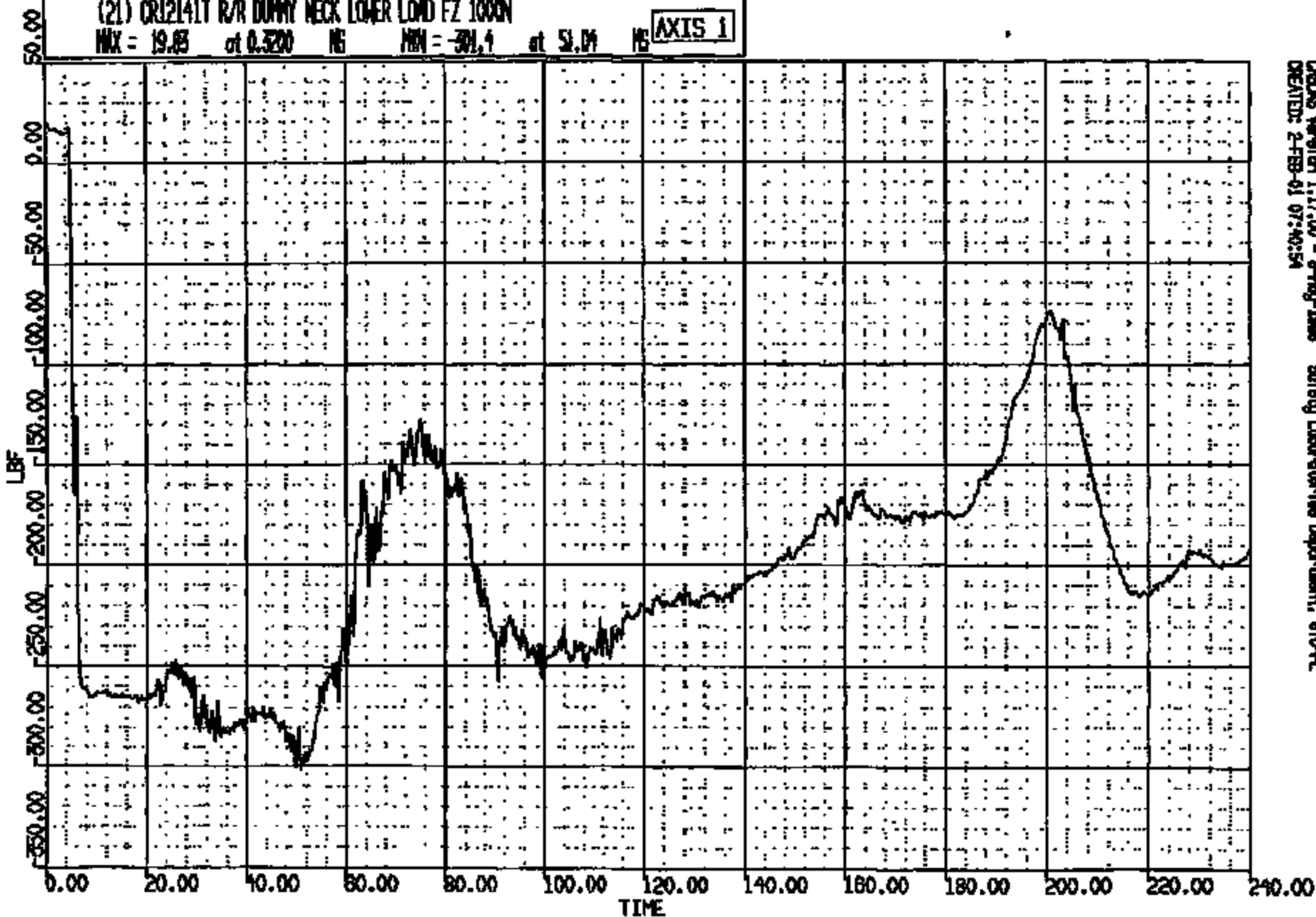
CRTS 0012141

CR: 12141 TO: TC2148 DATE: 01012 17:20:52
2000 TAURUS

(2) CR12141T R/R DUMMY NECK LOWER LOAD FZ 1000N

MAX = 19.83 at 0.320 NS MIN = -301.4 at 51.04 NS

AXIS 1



CRSAS Version 1.17.00 - 8-May-1998 Safety Laboratories Department, 870-PL
CREATED: 2-FEB-01 07:40:54

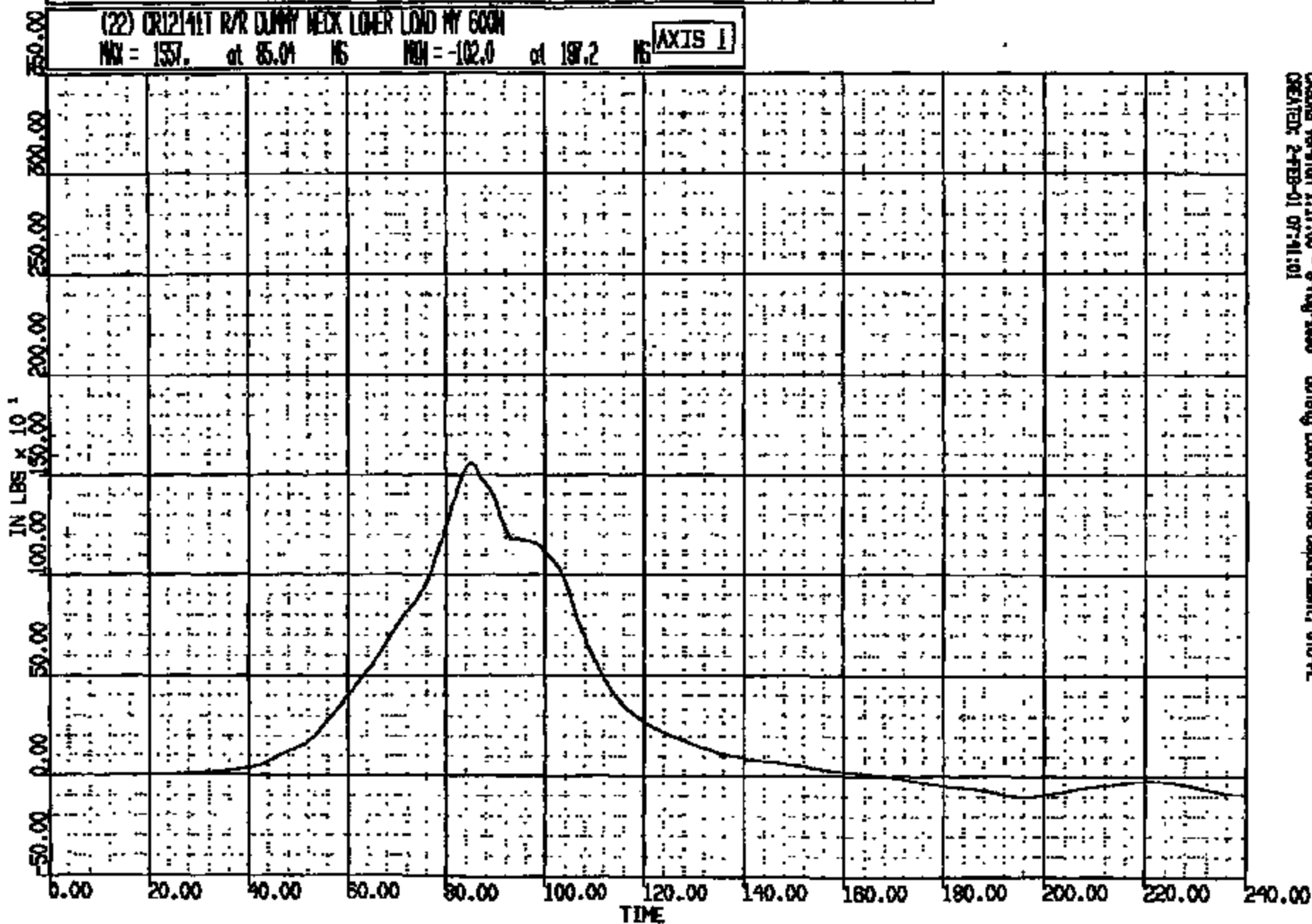
CR12141

C: R: 12141 TO: TC2148 DATE: 01012 17:20:52
2000 TAURUS

(22) CR12141T R/R DUMMY NECK LOWER LOAD NY 600N

MAX = 157. at 85.01 MS MIN = -102.0 at 187.2 MS

AXIS 1



CASING Version 1.17.00 - 8-Feb-1999 Safety Laboratories Department, 610-9L
CREATED: 2-FEB-01 07:41:01

CRIS 0012141

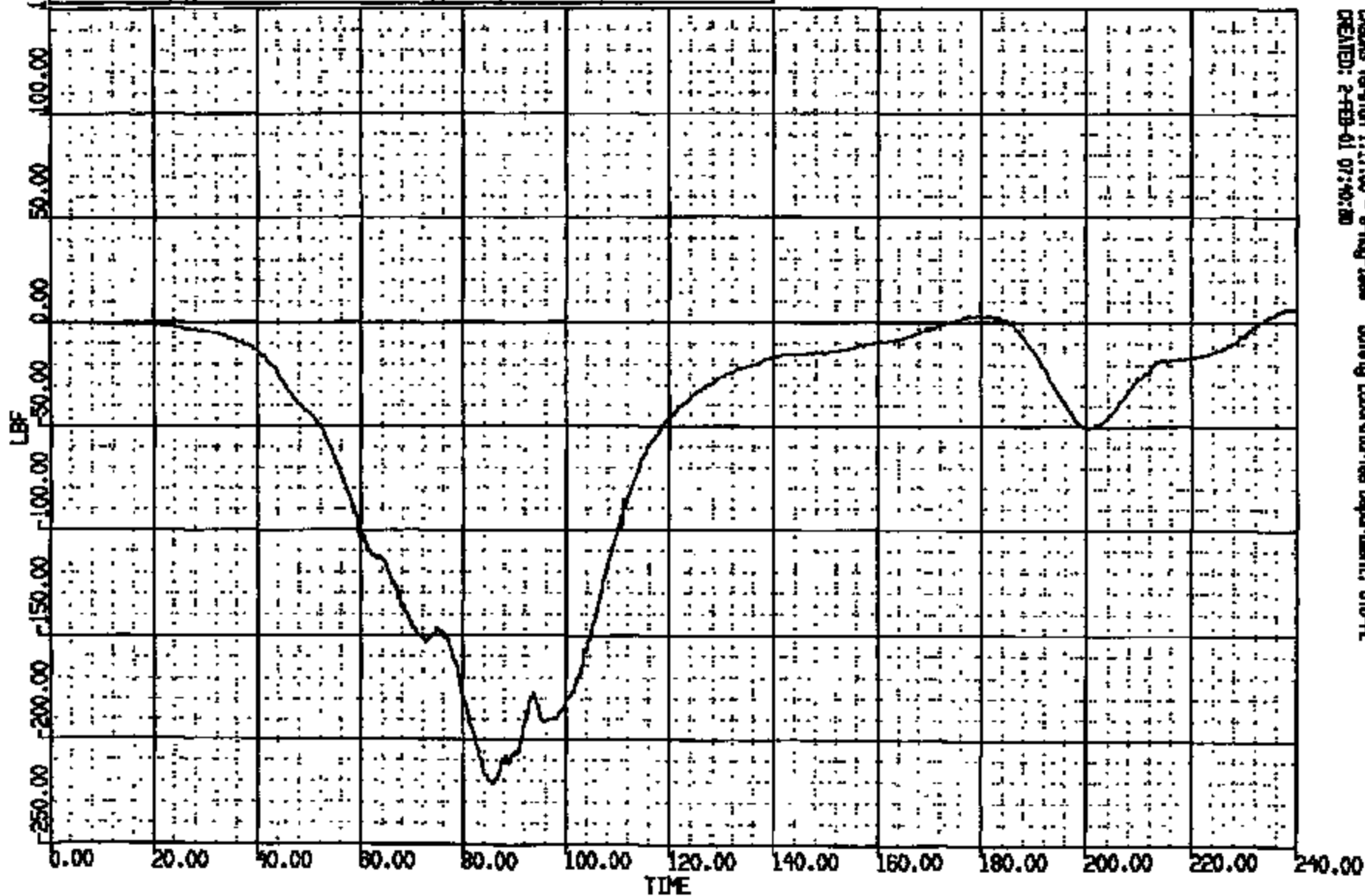
C. R: 12141 TO: TC2148 DATE: 010121 17:20:52

2000 TAURUS

(17) CR12141T R/R DUMMY NECK UPPER LOND FX 1000N

MAX = 6,461 at 238.2 MS MIN = -221.5 at 85.00 MS

AXIS 1



CRSIS Version 1.17.00 - 8-Aug-1998 Safety Laboratories Department, 610-PL
CREATED: 2-FEB-01 07:40:30

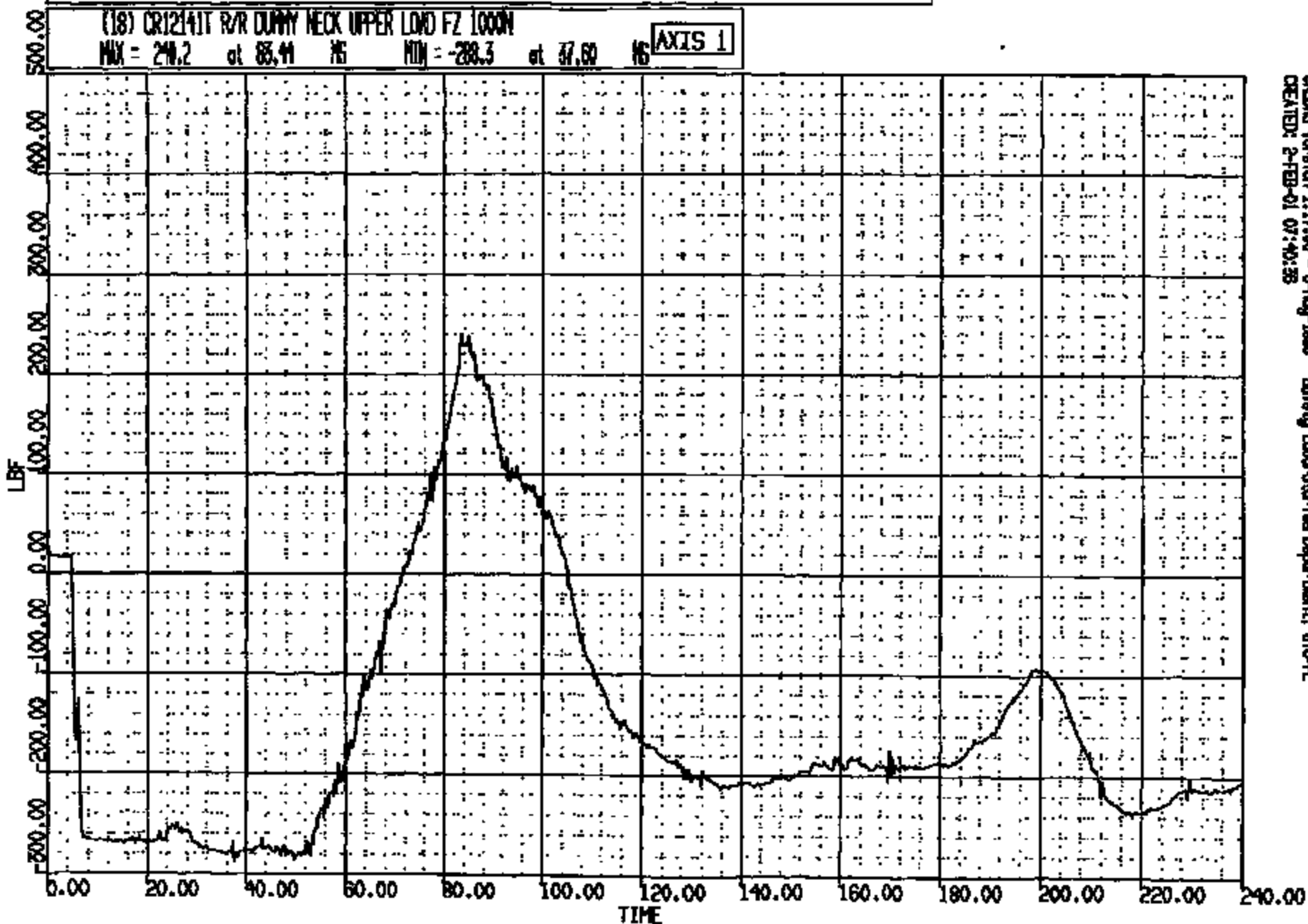
CRIS 0012141

CR: 12141 TD: TC2148 DATE: 010120 17:20:52
2000 TAURUS

(18) CR12141T R/R DUMMY NECK UPPER LND FZ 1000N

MAX = 240.2 at 85.41 MS MIN = -288.3 at 37.60 MS

AXIS 1



CRSIS Version 1.17.00 - 9-May-1998 Safety Laboratories Department, 610-A
CREATED: 2-FEB-01 07:40:38

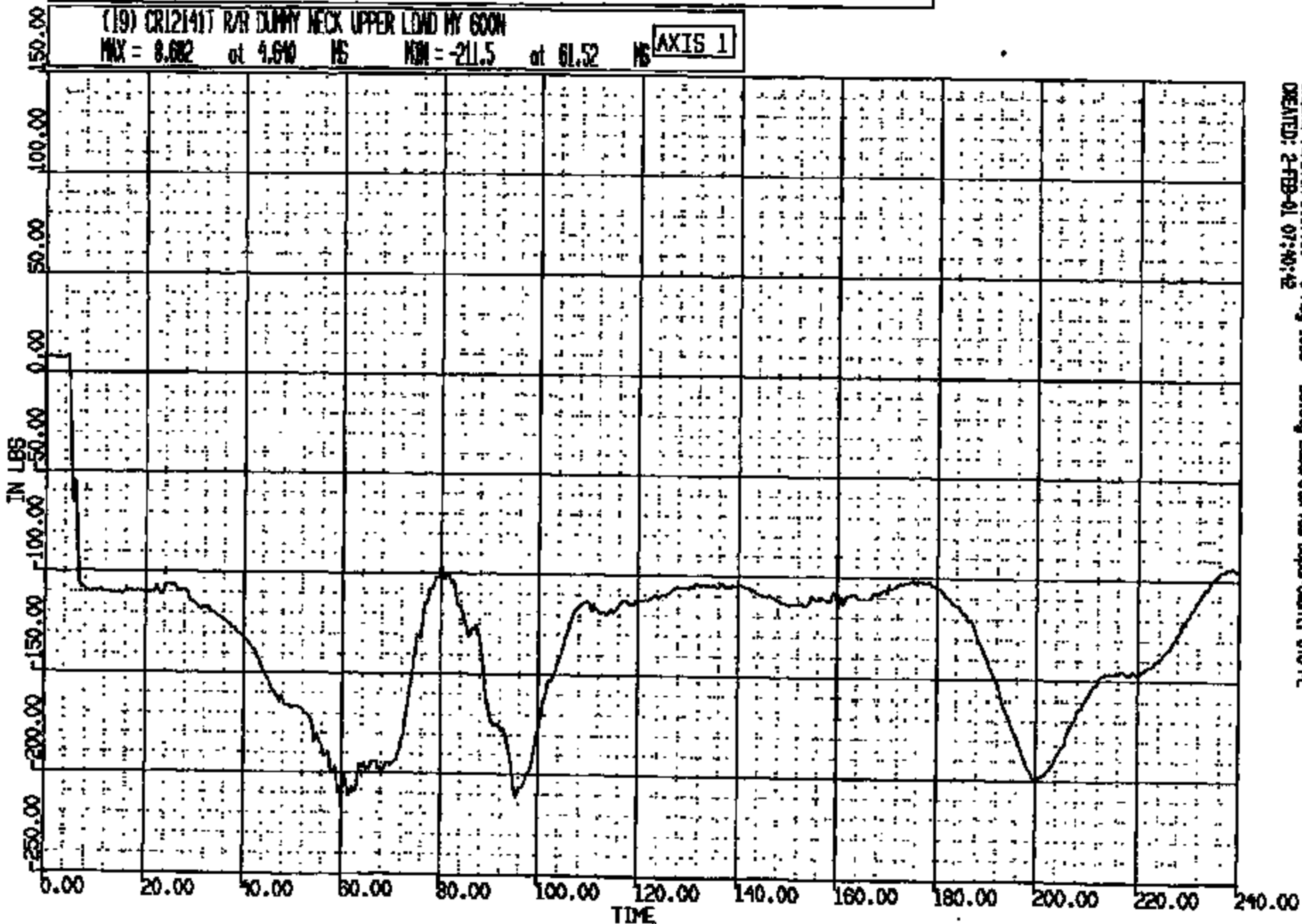
CRIS 0012141

C. R: 12141 TO: TC2148 DATE: 01012 17:20:52
2000 TAURUS

(19) CR12141T R/R DUMMY NECK UPPER LOAD HY 600N

MAX = 8.082 at 4.640 MS MIN = -211.5 at 61.52 MS

AXIS 1



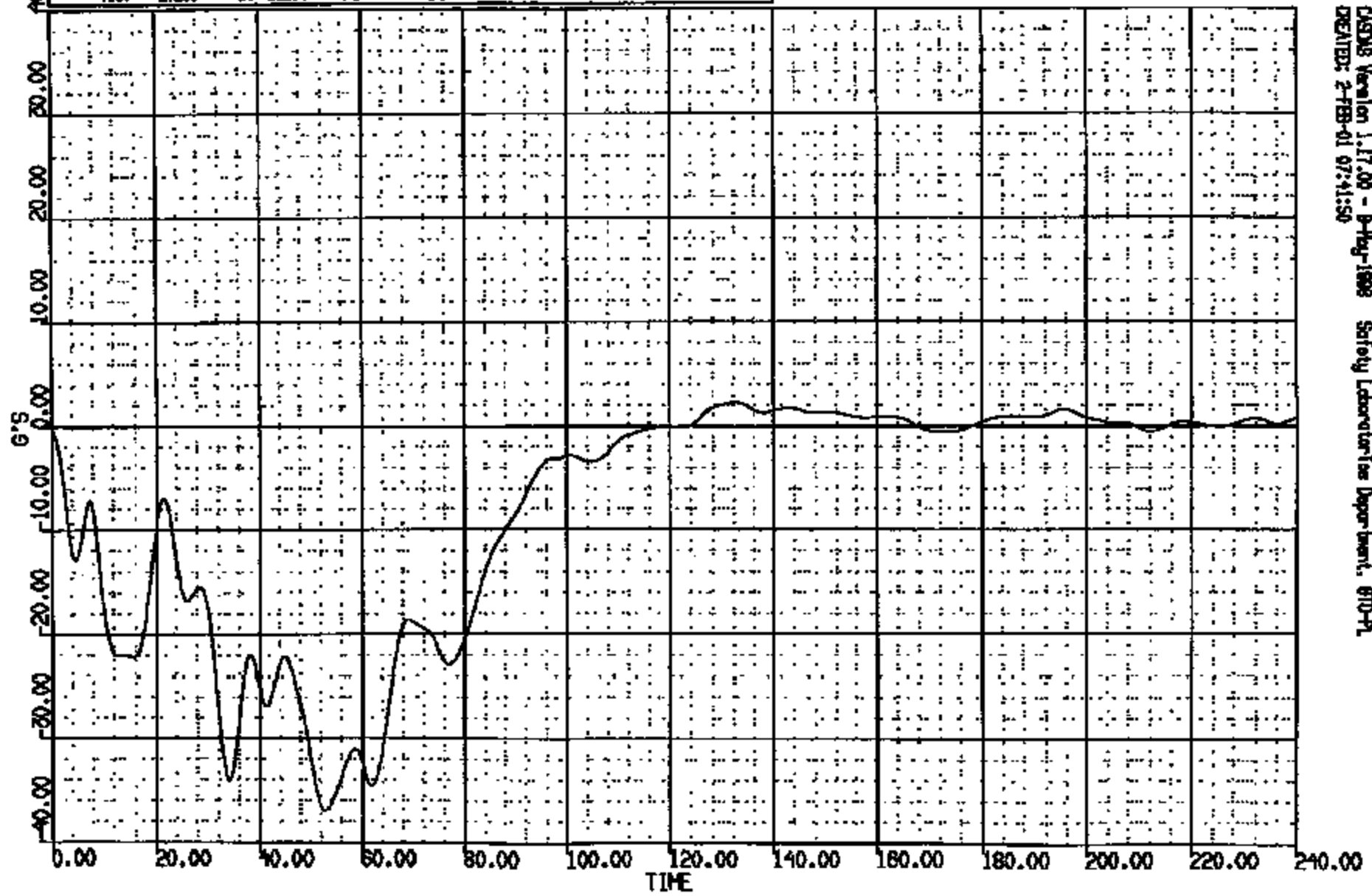
CASMS Version 1.17.00 - 8-May-1998
CREATED: 2-FEB-01 07:40:42

Safety Laboratories Department, 610-PL

CRIS 0012141

CI: R: 12141 TO: TC2148 DATE: 01012 17:20:32
2000 TAURUS

(30) CR12141T R/ROCKER @ B-PILLAR LONG 60N
MAX = 2.88 at 132.4 MS MIN = -36.98 at 32.80 MS **AXIS 1**

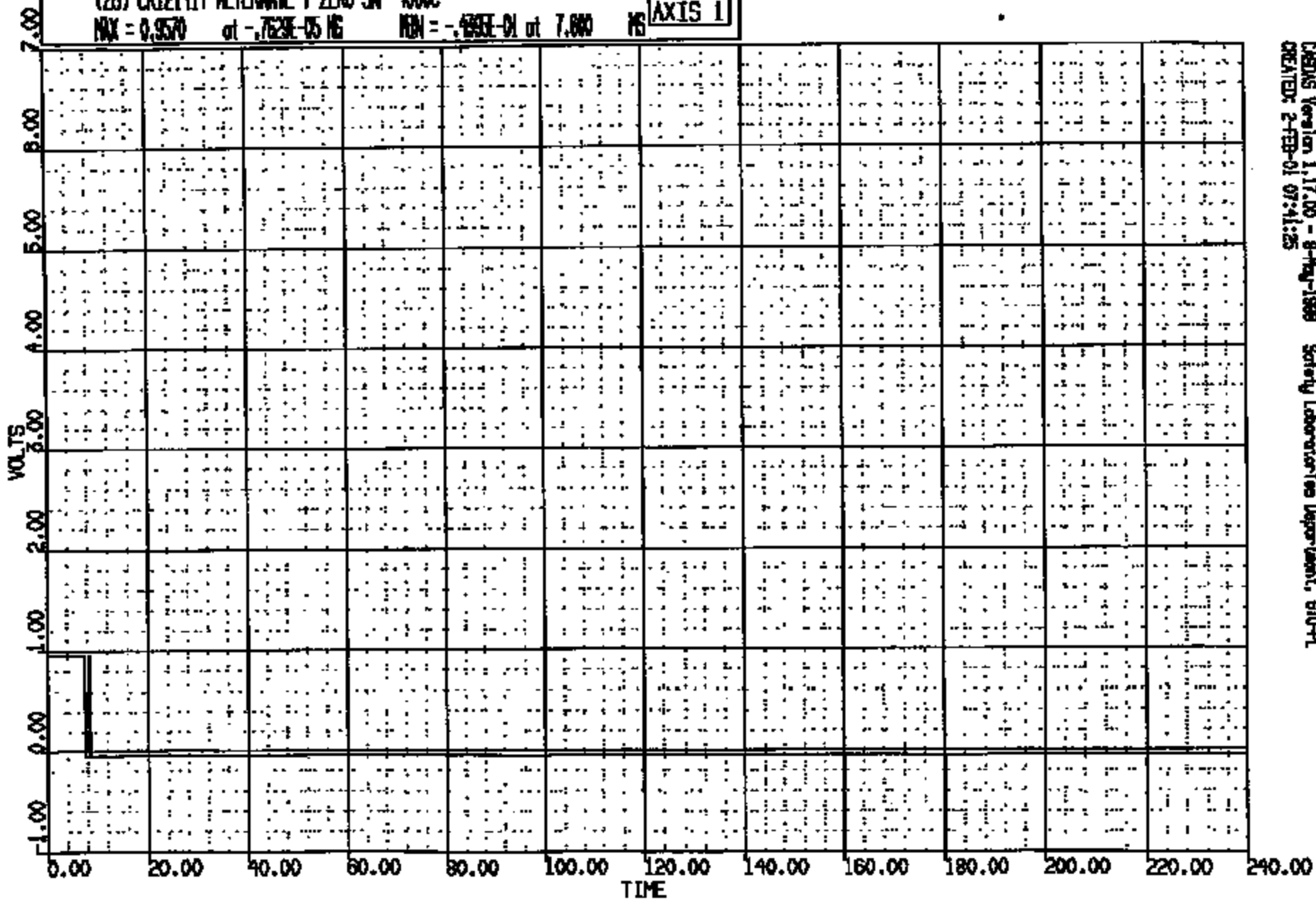


CRSDB Version 1.17.00 - B-Hug-1898 Safety Laboratories Department, 870-PL
CREATED: 2-FEB-01 07:41:50

CRIS 0012141

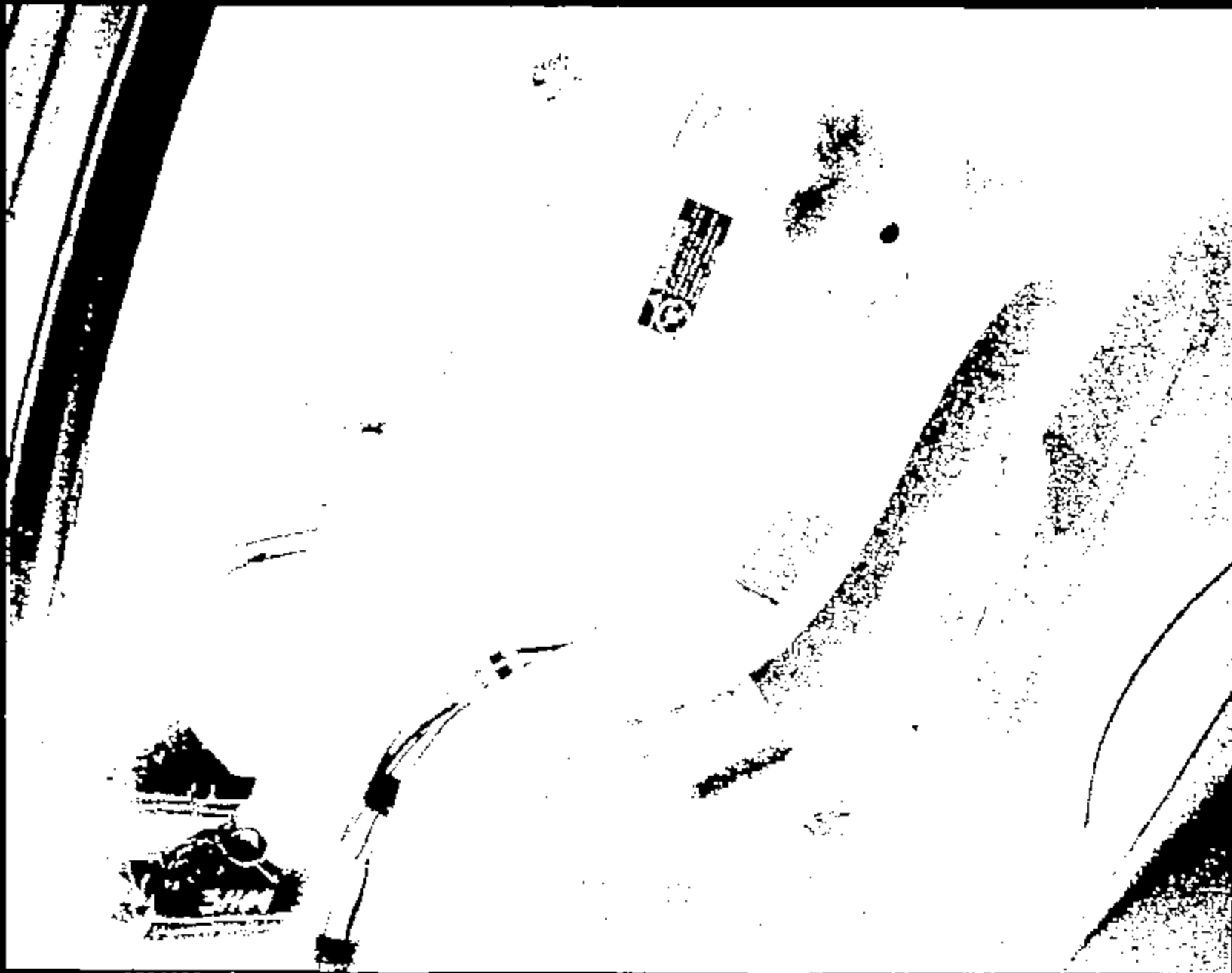
C R: 12141 TO: TC2148 DATE: 01012 17:20:32
2000 TAURUS

(26) CR12141T ALTERNATE T-ZERO SM 400C
MAX = 0.9570 at -7528-05 HG MIN = -.493E-01 at 7.000 MS **AXIS 1**



CRISIS Version 1.17.00 - 8-May-1999 Safety Laboratories Department, 810-PL
CREATED: 2-FEB-01 07:41:25

CRIS 0012141



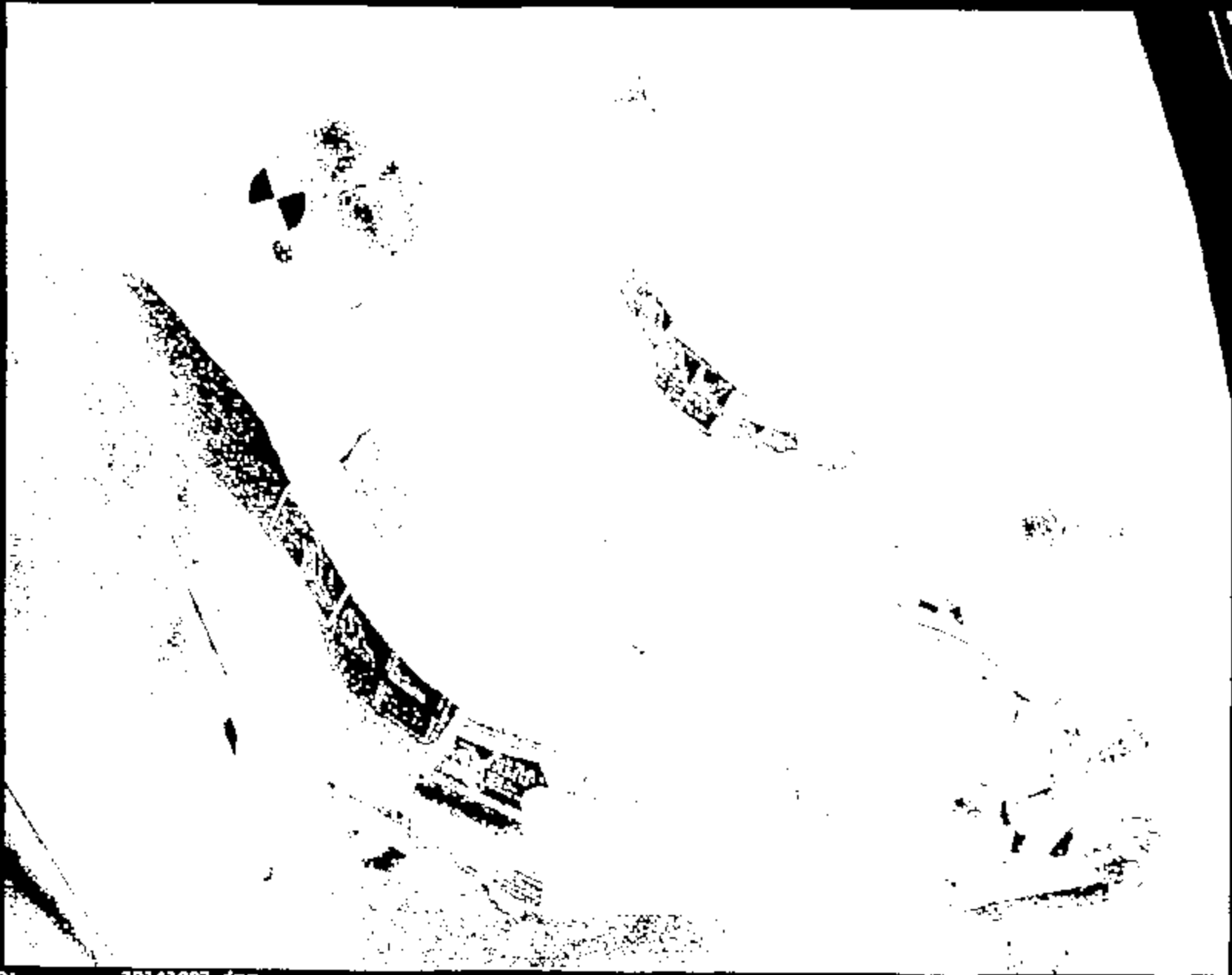
Name : 12141001.jpg

CRTS 0012141



Name: 12141002.jpg

CRIS 0012141



Name: 12141003 .jpg

CRTS 0012141



Name: 12161004.jpg

CRTS 0012141



7

Name :

12141005.jpg

CRTS 0012141



Name: 13141005.JPG

CRIS 0012141



Name :

12141007.jpg

CRTS 0012141



Name: 12141000.jpg

CRTS 0012141



Name : 12141009 .JPG

CRIS 0012141

TEST AUTHORIZATION **TEST AUTHORIZATION NUMBER: TC2148**

TO: Safety Lab Department CC: Y	REQUEST DATE: 1/3/01	REQUESTED COMPLETION DATE: 1/20/01
	REQUEST NUMBER: N/A	PROBLEM NUMBER: N/A
REQUESTING ACTIVITY: Vehicle Crash Safety		

TITLE OF TEST: 2000 Taurus 35 90 Degree frontal		PARTS DUE DATE: N/A	
TYPE OF TEST: [X] VEHICLE [] BENCH [] LABORATORY [] OTHER		VIN # or IDENTIFICATION: 2000 Taurus	PROD. OR ENG. LETTER: N/A
ENGINE NO. DISPL. GARD: N/A		TRANS / DRIVETRAIN: N/A	AXLE RATIO: N/A
TYPE OF FUEL: N/A		CONVERTER: N/A	IGNITION TIMING: N/A
ORANGE OIL AND CAPACITY (L): N/A		TIRE SIZE: N/A	
VEHICLE TEST WEIGHT: LBS. Unless Noted		TIRE PRESSURE (psi):	
FRONT: N/A	REAR: N/A	TOTAL: N/A	FRONT: 35 REAR: 35
TEST CONDUCTED TO CERTIFY CONTROL ITEM COMPLIANCE WITH ICV, REGULATIONS: Yes X No		DISPOSITION OF PARTS: Hold child seats, Scrap vehicle	
REPORT CATEGORIES: [X] ENGINEERING [X] DATA [X] RAW DATA		PROOFREMENT REQ? [] YES [] NO IF YES, GIVE CODE	
MAIL REPORT TO:		MAIL DROP: N/A ADDRESS: N/A	

1. OBJECT OF TEST 2. TEST PROCEDURE 3. ITEMS TO BE TESTED (NAME, NUMBER, QUANTITY)

1) Conduct:	(speed) 35 (gear) 2000 (vehicle) Taurus (level) 90 Degree frontal	Schedule No. <u>1-7-12</u> Retain Until: <u>2/28/01</u>
2) Velocity At Impact:	35	3) Vehicle Year: 2000 Vehicle Line: Taurus Vehicle Level:

Dummy Positioning Procedure: N/A
Test Procedure: N/A

Test Requester: Bob Hammond	(phone) 32-31188	(pager number) 313 786-8727	Estimated test cost =
Build Coordinator: Al Preston	24-86342	313 786-8771	
Additional Contacts: Paul Butler	89-41132	?	

Test Dev. Engineer *[Signature]* 1-4-2001

REQUESTING (REQ. NO.) TEST	WORK ORDER / WORK TASK # 2148	ISSUEY REQUESTED BY: Bob Hammond	PHONE: 32-31188	APPROVAL: Y	TEST TYPE: n/a	FISC: n/a	SIGN OFF DATE: N/A
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COMPLETE THE FOLLOWING TWO QUESTIONS AS INDICATED:

(Check appropriate boxes)

1 - Rational for not replacing this test by CAE analysis: <input checked="" type="checkbox"/> No CAE Methodology or process available <input type="checkbox"/> No CAE Correlation <input type="checkbox"/> Insufficient confidence in CAE. <input type="checkbox"/> To obtain basic data for CAE <input type="checkbox"/> Replacement or improvement of existing Test. <input type="checkbox"/> Testing is Outlier. <input type="checkbox"/> Mandatory or Regulatory <input type="checkbox"/> Certification <input type="checkbox"/> Development test for FBS <input type="checkbox"/> Not applicable. <input type="checkbox"/> Other	2 - What is the expected Test Outcome: <input type="checkbox"/> Results will meet DVPP/ICV requirements. <input type="checkbox"/> System Component will not meet Test specification. <input checked="" type="checkbox"/> Unknown. <input type="checkbox"/> Above is Based on CAE? <input type="checkbox"/> Other:
--	--

General Request Information

Test Mode

TAK: TC2148

35.0 mph
90 Degree frontal

Test Objectives: Cert (C) Verif (V) Dev (D) Audit (A)

REGULATORY:

- FMVSS 201 - Head Impact
- FMVSS 204 - Steering Wheel Displacement
- FMVSS 208 - Frontal Occupant Protection
- FMVSS 212 - Wind Shield Retention
- FMVSS 214 - Side Impact Protection
- FMVSS 219 - Windshield Zone Intrusion
- Film Analysis
- Template
- FMVSS 301 - Fuel System Integrity
- Rollover
- Pressure Check
- FMVSS 303 - NGV Fuel System Integrity
- ECE 12 (74/287/EEC) - Protection of the Driver Against Steering Mechanism
- ECE 33 Frontal Impact - Structural Performance
- ECE 34 Fuel System Integrity
- ECE 84 Step II Frontal Offset - Occupant Performance
- ECE 95 Step II 300mm Barrier Side Impact - Occupant Performance
- 98/79/EC - Frontal Offset
- EURO-NCAP

FORD AUTOMOTIVE OPERATIONS SAFETY DESIGN GUIDELINES:

- Front Impact FAO Safety Design Guidelines
- Offset Frontal FAO Safety Design Guidelines

OTHER:

- Sensor Development
- Other, Specify: Child Seat Evaluation in NCAP Test

Primary Test Vehicle Information

Use (Target/Bullet):	BULLET
Model Year:	2000
Vehicle Program:	Taurus
Vehicle Name:	Taurus
Body / Cab Style:	Wagon
Build Number:	Build #
Tag Number:	Tag #307W998
VIN Number:	VIN. #1FAPP5851YA100113
Fuel System Rated Capacity(Gal):	?
Prototype Level:	
Drive Side:	L

**Occupant / ATD Request
Primary Vehicle**

TAR: TC2148

	<i>Occupant 1</i>	<i>Occupant 2</i>
Type	<u>3YR H3</u>	<u>3YR H3 12/18/2008</u>
Instrumentation Level*	<u>Standard</u>	<u>Standard</u>
In-Vehicle Location	<u>LR</u>	<u>RR</u>
Verify:		
Seat Position Long	<u>n/a</u>	<u>n/a</u>
Seat Position Vert	<u>n/a</u>	<u>n/a</u>
Seat Back Angle	<u>n/a</u>	<u>n/a</u>
D-Ring Position	<u>n/a</u>	<u>n/a</u>
Positioning Procedure	<u>N/A</u>	<u>N/A</u>
Use Foot Rest	<u>n/a</u>	<u>n/a</u>
Take Seat Track Video	<u>n/a</u>	<u>n/a</u>
Special Positioning Instructions		
Dummy Adjustment (arm angle)	<u>N/A</u>	<u>N/A</u>
Occupant Belted	<u>No vehicle belts Use ISOFIX attachment and child seat harness</u>	<u>No vehicle belts Use ISOFIX attachment and child seat harness</u>

*See instrumentation request for detailed instrumentation information.

File Analysis & Photographic Services Request

Front Impact Film Analysis

Date 7/21/82

- Head WRT Vehicle
- Shoulder WRT Vehicle
- Rector WRT Street

Other Specify

Still Photography

- Pre Test Documentation Photographs
- Post Test Documentation Photographs

High Speed Photographic Requirements

- Copies of High Speed Film Required
- Copies of High Speed Film Required in Wall Format
- Reproduction of Original Passenger Photographs
- Format

High Speed Cameras for Front Impact

- On-board Vehicle
- Onboard - LEFT Onboard Over Shoulder
- Onboard - RIGHT Onboard Over Shoulder
- Onboard - Color "DP" Ring
- Onboard - Color Reflector (Low)
- Onboard - Silver/Lower View to RP Contact, From Rear, Cass Car
- Onboard - Passenger/Lower View to RP Contact, From Rear, Cass Car
- Onboard - Passenger "DP" Ring
- Onboard - Passenger Reflector (Low)
- Onboard - Rear Over (Mounted on Behind)
- Onboard - Passenger Overhead to RT
- Onboard - Photo Booth (Automotive Shell) - Front View
- Onboard - Photo Booth (Automotive Shell) - Side View From Tunnel
- Onboard - Rear Open (Automotive Shell) - Front View
- Onboard - Rear Open (Automotive Shell) - Side View From Tunnel

Rear Coverage

Date 7/21/82

- Left Onboard Over Shoulder, On Road, Two Pass, Over Air
- Right Onboard Over Shoulder, On Road, Two Pass, Over Air
- Left Onboard Over Shoulder, In Sight
- Right Onboard Over Shoulder, In Sight
- Overall Left
- Border to B-Pier Left
- Quarry Mountain & Valley Left
- Overall Right
- Border to B-Pier Right
- Quarry Mountain & Valley Right
- Top of Border - Overall View of Windshield
- Top of Border - Glass
- Top of Border - Passenger
- Left Front Full Airframe Bumper Close-up
- Right Front Full Airframe Bumper Close-up

Overhead Coverage

- Overall - Overall
- Overall - A-Pier Forward
- Standing Outside Cabin Compartment
- Bench
- Restroom

PI Coverage

- PI - Overall
- PI - A-Pier Forward
- PI - L/R Pass (After Discharge)
- PI - L/R Pass (After 1st ICB Restraint)
- PI - Standing Over Glass-up
- PI - Front Desk
- Plates of Photo. Must be removed from pt.

All Other High Speed Photography

- Lights - left rear seat occupant
- Lights - right rear seat occupant

Primary Vehicle Systems Instrumentation

TAF: TC2148

SENSOR ACCELS:

____ See Sensor Map

MONITOR AIR BAG SENSORS:

____ See Sensor Map
____ Monitor Closure of Each Specified Sensor
____ Monitor Closures of Single Pt Elect Sensor

MONITOR AIR BAGS STATUS:

____ Two Stage Air Bags
____ Driver Squib Voltage
____ Driver Squib Current
____ Driver Bag Pressure
____ Passenger Squib Voltage
____ Passenger Squib Current
____ Passenger Bag Pressure
____ Passenger Inflator Pressure

RESTRAINT LOADS:

____ Left Pyro-Technic Buckle Squib Voltage
____ Left Pyro-Technic Buckle Squib Current
____ Right Pyro-Technic Buckle Squib Voltage
____ Right Pyro-Technic Buckle Squib Current
____ Lightweight Left Lap Belt at Anchor Load
____ Lightweight Left Torso Belt at Retr. Load
____ Lightweight Left Torso Belt at D-ring Load
____ Lightweight Right Lap Belt at Anchor Load
____ Lightweight Right Torso Belt at Retr. Load
____ Lightweight Right Torso Belt at D-ring Load

STEERING COLUMN:

____ Stroke Break Wires
____ L & R Shear Modulus Break Wires
____ TM Mechanism Break Wires
____ Steering Column String Pot
____ Load Cell (5 Ads)

SWITCHES:

____ Engine to Rad Support left
____ Engine to Rad Support center
____ Engine to Rad Support right
____ Other _____

FUEL SYSTEM:

____ Inertia Fuel System Cut-Off Switch

VEHICLE STRING POTS:

OTHER VEHICLE ELECTRICAL SYSTEM INSTRUMENTATION:

Dummy Instrumentation - Internal

SYR HS

LR

ACCELS:

<input checked="" type="checkbox"/> Head C.G.	<input checked="" type="checkbox"/> Long	<input checked="" type="checkbox"/> Vert	<input checked="" type="checkbox"/> Lat
<input checked="" type="checkbox"/> Chest	<input checked="" type="checkbox"/> Long	<input checked="" type="checkbox"/> Vert	<input checked="" type="checkbox"/> Lat
<input type="checkbox"/> Pelvis	<input type="checkbox"/> Long	<input type="checkbox"/> Vert	<input type="checkbox"/> Lat

LOAD CELLS:

<input checked="" type="checkbox"/> Neck Upper Load	<input checked="" type="checkbox"/> Fx	<input type="checkbox"/> Fy	<input checked="" type="checkbox"/> Fz
<input checked="" type="checkbox"/> Neck Upper Moment	<input type="checkbox"/> Mx	<input checked="" type="checkbox"/> My	<input type="checkbox"/> Mz
<input checked="" type="checkbox"/> Neck Lower Load	<input checked="" type="checkbox"/> Fx	<input type="checkbox"/> Fy	<input checked="" type="checkbox"/> Fz
<input checked="" type="checkbox"/> Neck Lower Moment (no Mz on 5%)	<input type="checkbox"/> Mx	<input checked="" type="checkbox"/> My	<input type="checkbox"/> Mz
<input type="checkbox"/> Thoracic Load	<input type="checkbox"/> Fx	<input type="checkbox"/> Fy	<input type="checkbox"/> Fz
<input type="checkbox"/> Thoracic Moment	<input type="checkbox"/> Mx	<input type="checkbox"/> My	<input type="checkbox"/> Mz
<input type="checkbox"/> Lower Lumbar Load	<input type="checkbox"/> Fx	<input type="checkbox"/> Fy	<input type="checkbox"/> Fz
<input type="checkbox"/> Lower Lumbar Moment	<input type="checkbox"/> Mx	<input type="checkbox"/> My	<input type="checkbox"/> Mz
<input type="checkbox"/> L/Femur Load	<input type="checkbox"/> Fx	<input type="checkbox"/> Fy	<input type="checkbox"/> Fz
<input type="checkbox"/> L/Femur Moment	<input type="checkbox"/> Mx	<input type="checkbox"/> My	<input type="checkbox"/> Mz
<input type="checkbox"/> R/Femur Load	<input type="checkbox"/> Fx	<input type="checkbox"/> Fy	<input type="checkbox"/> Fz
<input type="checkbox"/> R/Femur Moment	<input type="checkbox"/> Mx	<input type="checkbox"/> My	<input type="checkbox"/> Mz
<input type="checkbox"/> L/Up/Tibia Load	<input type="checkbox"/> Fx	<input type="checkbox"/> Fy	<input type="checkbox"/> Fz
<input type="checkbox"/> L/Up/Tibia Moment	<input type="checkbox"/> Mx	<input type="checkbox"/> My	<input type="checkbox"/> Mz
<input type="checkbox"/> R/Up/Tibia Load	<input type="checkbox"/> Fx	<input type="checkbox"/> Fy	<input type="checkbox"/> Fz
<input type="checkbox"/> R/Up/Tibia Moment	<input type="checkbox"/> Mx	<input type="checkbox"/> My	<input type="checkbox"/> Mz
<input type="checkbox"/> L/Low/Tibia Load	<input type="checkbox"/> Fx	<input type="checkbox"/> Fy	<input type="checkbox"/> Fz
<input type="checkbox"/> L/Low/Tibia Moment	<input type="checkbox"/> Mx	<input type="checkbox"/> My	<input type="checkbox"/> Mz
<input type="checkbox"/> R/Low/Tibia Load	<input type="checkbox"/> Fx	<input type="checkbox"/> Fy	<input type="checkbox"/> Fz
<input type="checkbox"/> R/Low/Tibia Moment	<input type="checkbox"/> Mx	<input type="checkbox"/> My	<input type="checkbox"/> Mz

POTENTIOMETERS:

<input checked="" type="checkbox"/> Chest Deflection	<input type="checkbox"/> Ball Bearing	<input type="checkbox"/> Std	<input checked="" type="checkbox"/> Disp
<input type="checkbox"/> Left Knee Slider	<input type="checkbox"/> Ball Bearing	<input type="checkbox"/> Std	<input type="checkbox"/> Disp
<input type="checkbox"/> Right Knee Slider	<input type="checkbox"/> Ball Bearing	<input type="checkbox"/> Std	<input type="checkbox"/> Disp

OTHER INTERNAL DUMMY INSTRUMENTATION:

<input type="checkbox"/> LR Femur Accels (not on 5% dummies)	<input type="checkbox"/> Long
<input type="checkbox"/> L/R Ankle soft bumper to foot stem	

Dummy Instrumentation - External

CONTACT SWITCHES:

<input type="checkbox"/> L / Knee Contact
<input type="checkbox"/> R / Knee Contact
<input type="checkbox"/> Header

STRING POTS:

<input type="checkbox"/> Pelvis
<input type="checkbox"/> L / Knee
<input type="checkbox"/> R / Knee

OTHER EXTERNAL DUMMY INSTRUMENTATION:

<input type="checkbox"/> Please color contrast Driver left and right shoes
--

List of Test Contacts

Task: TC2148

	Last name	Phone	Pager	Prof
Requestor	Bob Harmond	32-31188	913 788-5737	
Approving supervisor	Bob MacFarland			
Build coordinator	Al Preston	34-88342	913 788-5771	
Test engineer				
Sensor Engineer				
Other	Paul Butler	69-41132	?	

	Last name	Phone	Pager	Prof
Seats				
Instrument panel				
Restraints				
Air bag (driver)				
Air bag (passenger)				
Steering column				

QAT Report for Run Number: 0202

Run Number	Channel	Location Description	Axis	Transducer	Bridge	Cable 2	Cable 1	DAS Unit	DAS Chan	Sw	TO Number
12141	5	L/R DUMMY NECK UPPER LOAD	FZ	47953	3		BRK-1	3242	21	0	TC2148
Level Shift From: -78 ms To: 546 ms Data is Questionable Cause: Other Equipment Fault Details: OQAS card at											
12141	6	L/R DUMMY NECK UPPER LOAD	NY	47953	5		BRK-2	3242	22	0	TC2148
Level Shift From: -78 ms To: 546 ms Data is Questionable Cause: Other Equipment Fault Details: OQAS card at											
12141	7	L/R DUMMY NECK LOWER LOAD	FZ	48863	1		BRK-3	3242	23	0	TC2148
Level Shift From: -78 ms To: 546 ms Data is Questionable Cause: Other Equipment Fault Details: OQAS card at											
12141	8	L/R DUMMY NECK LOWER LOAD	FZ	48863	3		BRK-4	3242	24	0	TC2148
Level Shift From: -78 ms To: 546 ms Data is Questionable Cause: Other Equipment Fault Details: OQAS card at											
12141	13	L/R DUMMY CHEST DEFLECTION MOUL		48496	1		BRP-4	3242	4	0	TC2148
Data Dropout From: 32 ms To: 546 ms Data is Doubtful Cause: Wrong Transducer Number Process Fault											
12141	18	L/R DUMMY NECK UPPER LOAD	FZ	48651	3		CHY-1	3242	17	0	TC2148
Level Shift From: -78 ms To: 546 ms Data is Questionable Cause: Other Equipment Fault Details: OQAS card at											
12141	19	R/R DUMMY NECK UPPER LOAD	NY	48651	5		CHY-2	3242	18	0	TC2148
Level Shift From: -78 ms To: 546 ms Data is Questionable Cause: Other Equipment Fault Details: OQAS card at											
12141	20	L/R DUMMY NECK LOWER LOAD	FZ	48655	1		CHY-3	3242	19	0	TC2148
Level Shift From: -78 ms To: 546 ms Data is Questionable Cause: Other Equipment Fault Details: OQAS card at											
12141	21	R/R DUMMY NECK LOWER LOAD	FZ	48655	3		CHY-4	3242	20	0	TC2148
Level Shift From: -78 ms To: 546 ms Data is Questionable Cause: Other Equipment Fault Details: OQAS card at											