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2012

CONFIDENTIAL

**FINAL TEST REPORT**

**Global Test Operations  
Advanced Vehicle Technology**

<b>TO:</b>	J. Boland	Test Order No.	T-AA571
		Work Task W. O. No.	XRT39
		Test Date	8/18/97
		Date Reported	11/19/97
		Sheet	1 of 136

**SUBJECT:** Crash Test 10801 (90° Front Fixed Center Pole Impact at 30.1 ± 0.4 mph, 48.4 ± 0.6 km/h) - 199X Taurus 4-Door Sedan

**REQUESTED BY:** Vehicle Safety and GAE Department, Advanced Vehicle Technology - K. Ewing

**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.

S. Pingston  
Test Development Engineer

  
11/19/97

**CONCAR:** R. Burns  
Section Supervisor  
Operations Engineering Section

**VEHICLE DATA:**

**Make and Model** 199X Taurus 4-Door Sedan  
**ID Numbers** 1FALP52U8TG134259, 311-T-897  
**Power Train** 3.0L, EFI, Automatic (A6AN) Transaxle  
**Fuel Tank(s)** Test Condition: Empty  
**Front Seat(s)** Type: Bucket  
 Cover: Cloth  
 Tracks/Position: LF: 6-Way Power/Mechanical Mid  
 and Down  
 RF: Manual/Mechanical Mid  
 Seat Backs/Position: Adjustable/Not Measured  
 Head Restraints/Position: Adjustable/LF: Up  
 RF: Down  
**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  
**Occupants** LF & RF: 5th Percentile Female, Hybrid III,  
 Instrumented  
**Test Weight** Front: 2269 lb (1029 kg)  
 Rear: 1931 lb (876 kg)  
 Total: 4200 lb (1905 kg)  
**Tires** Front: P205/65R15 30 psi (207 kPa)  
 Rear: P205/65R15 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):

Fixed Barrier Collision, ST-14 dated January 15, 1992.

**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 against the vehicle's impact point which 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 only through the Crash Test Operations Section after permission is obtained from the test requesting department. The crash still images are stored on CD ROMs. The file names of the still images are listed under crash number and a three digit sequence number which are 10801001 through 10801068.

**TEST RESULTS:**

**1.0 Sensor Development**

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.

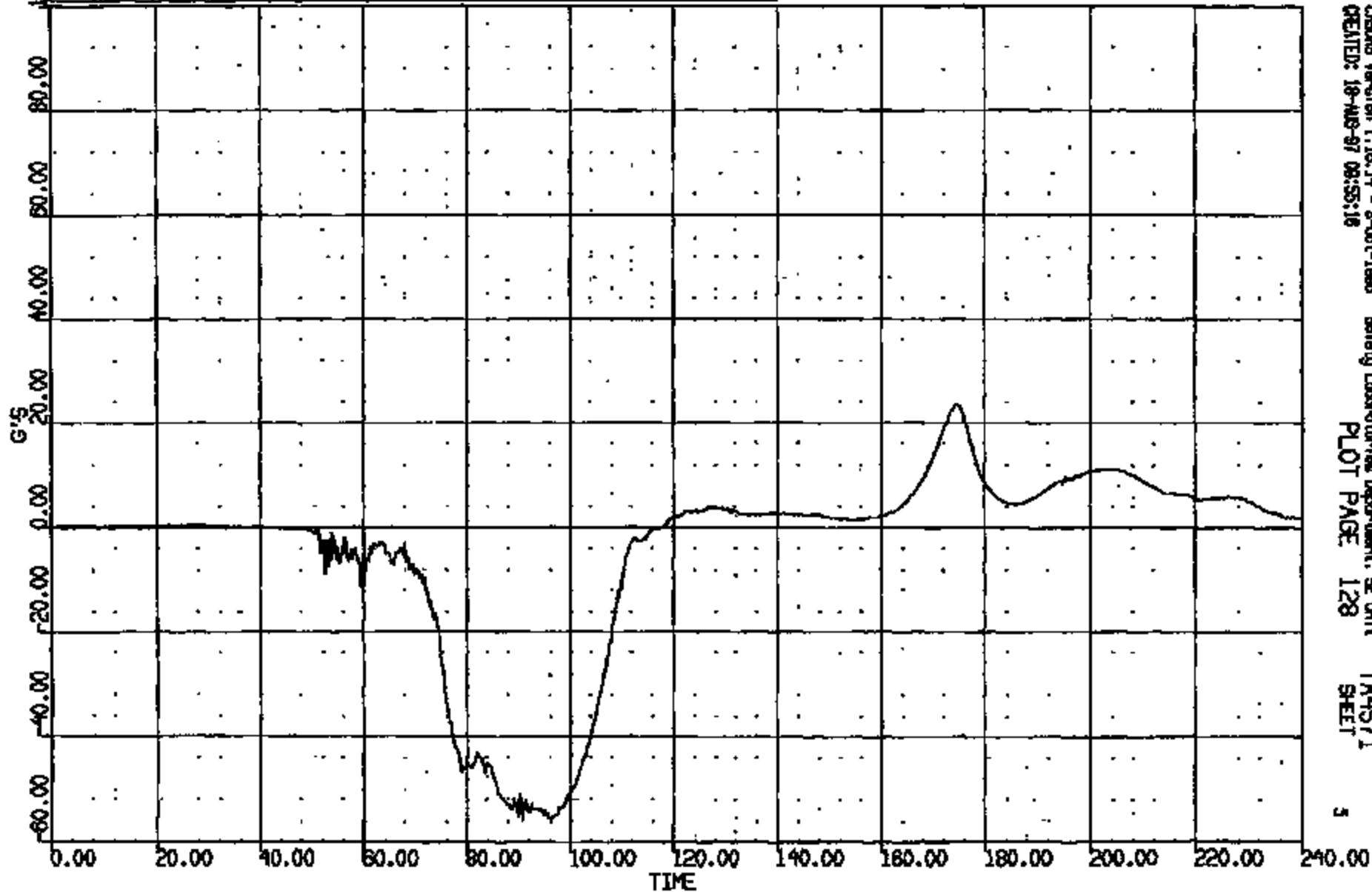
**2.0 Vehicle Crush, Film Analysis and/or Instrumentation Data**

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

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

CR R: 10801 TO: TA4571 DATE: 870818 08:18:04  
100X UNKNOWN

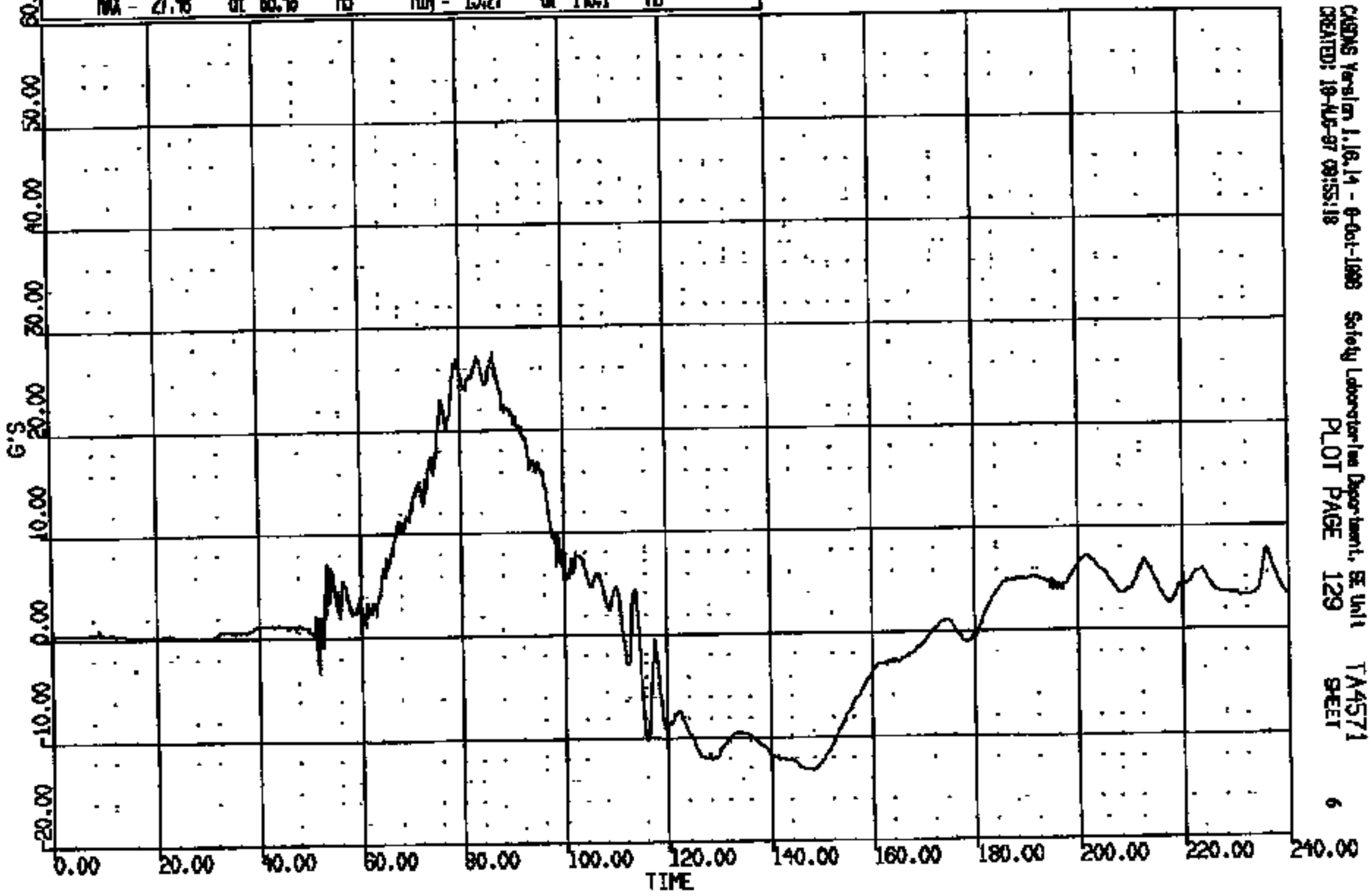
(90) CR10801T L/A DUMMY HEAD C.G. LONG 1000C  
MAX = 28.42 at 174.4 MS MIN = -56.04 at 96.00 MS **AXIS 1**



CRS015 Version 1.16.14 - 8-30-1985 Safety Laboratories Department, SE Unit  
CREATED: 18-AUG-87 08:55:18 PLOT PAGE 128 TA4571 SHEET

CR R: 10801 TO: TA4571 DATE: 870818 09:18:04  
100X UNKNOWN

(91) CR10801T L/F DUMMY HEAD C.G. VERT 1000C  
MAX = 27.48 at 86.48 MS MIN = -13.27 at 118.1 MS **AXIS 1**

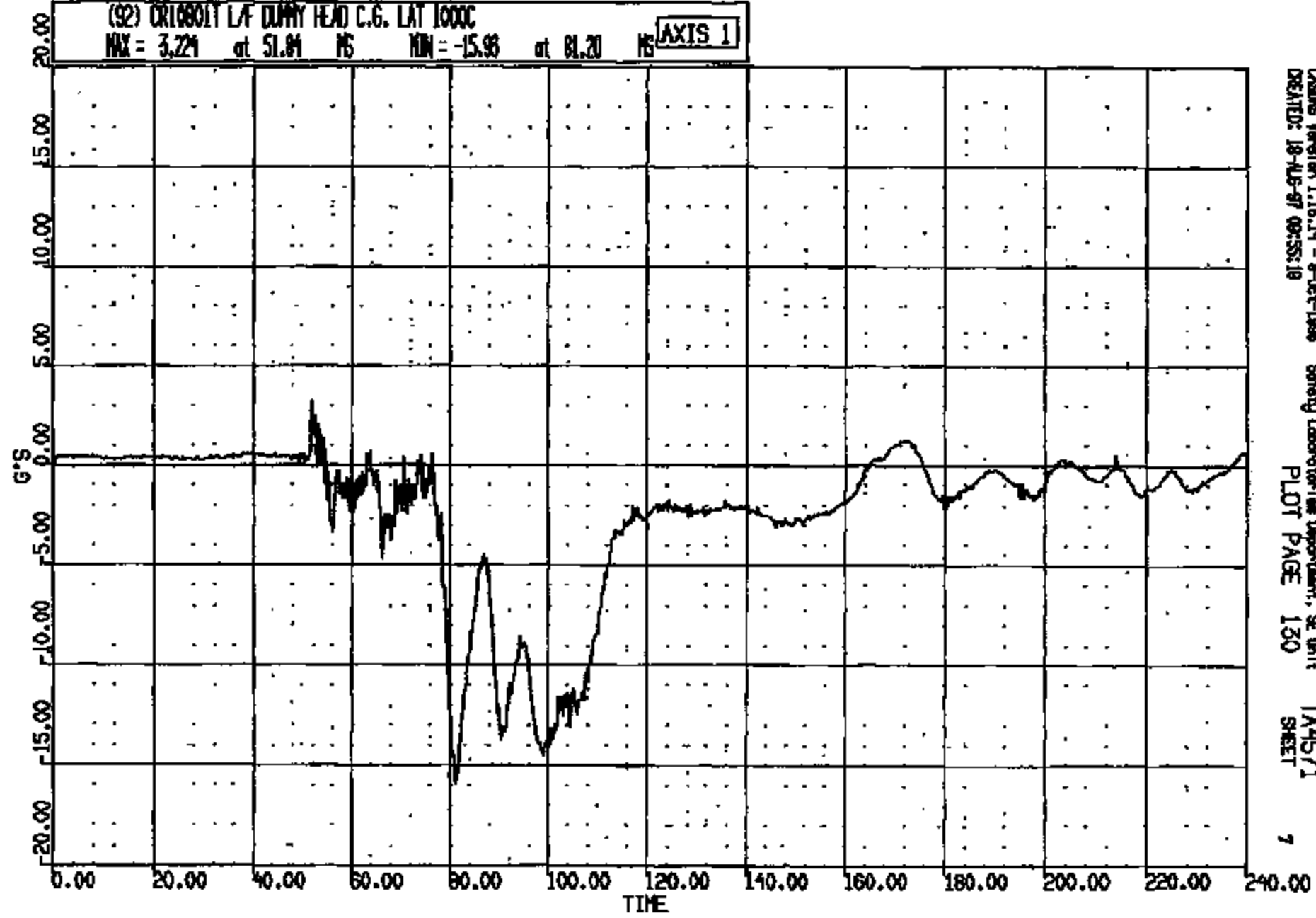


CRS Version 1.16.14 - 8-Oct-1989 Safety Laboratory Department, SE Unit TA4571  
CREATED: 18-AUG-87 09:55:18 PLOT PAGE 129 SHEET 6

CRTS 0010801

CR R: 10801 TO: TA4571 DATE: 870818 09:18:04  
199X UNKNOWN

(32) CR10801T L/F DUMMY HEAD C.G. LAT 1000C  
MAX = 3.221 at 51.84 MS MIN = -15.98 at 81.20 MS **AXIS 1**

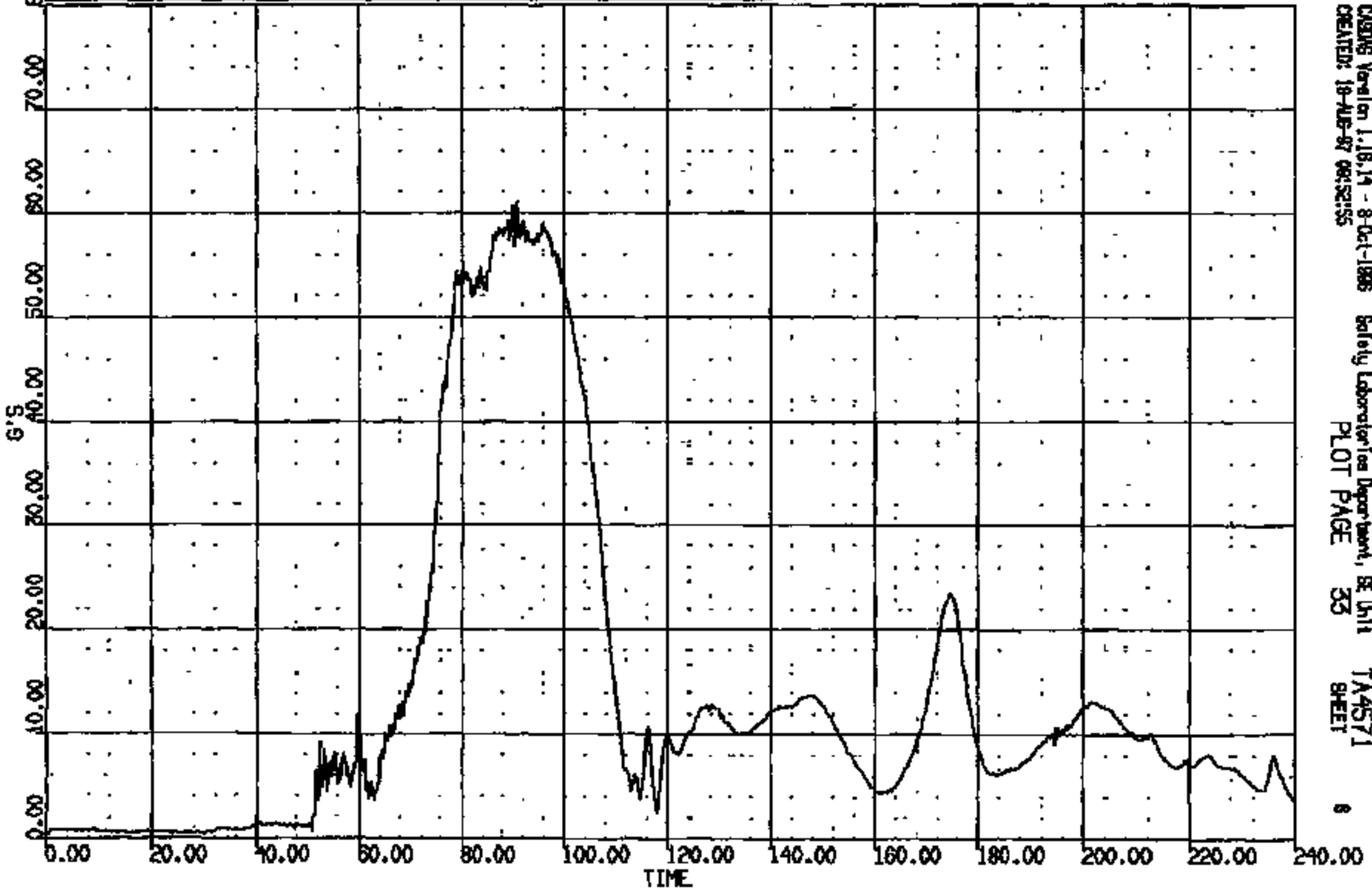


DASINS Version 1.18.14 - 8-Oct-1998 Safety Laboratories Department, SE Unit  
CREATED: 18-AUG-97 09:55:18  
PLOT PAGE 130  
TA4571  
SHEET 7

CRIS 0010801

CR: 10801 TO: TA4571 DATE: 870818 09:18:04  
 IIRX: UNKNOWN  
 IIR: 810. DUR: 240.0 T1/T2: 75.0 // 107.  
 IIR: 810. DUR: 28.0 T1/T2: 75.0 // 107.  
 IIR: 878. DUR: 15.0 T1/T2: 85.0 // 98.8

(1000) CR10801T L/F DUMMY HEAD C.G. RES 1000C  
 MAX = 61.17 at 98.88 MS MIN = 0.2195 at 0.000E+00 MS **AXIS 1**



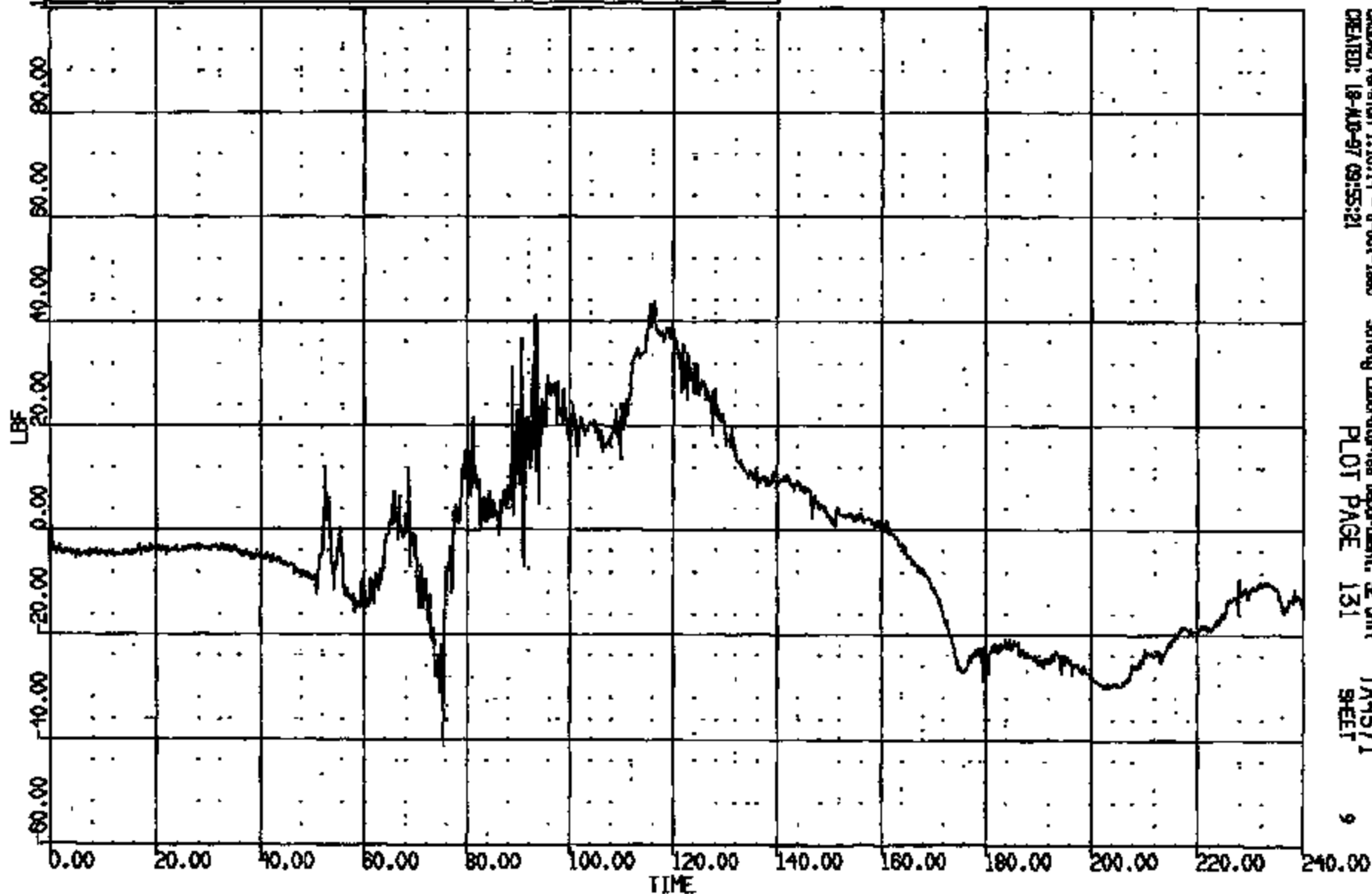
CASING Version 1.18.14 - 8-Oct-1986 Safety Laboratories Department, BE Unit  
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CRIS 0010801



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100X UNKNOWN

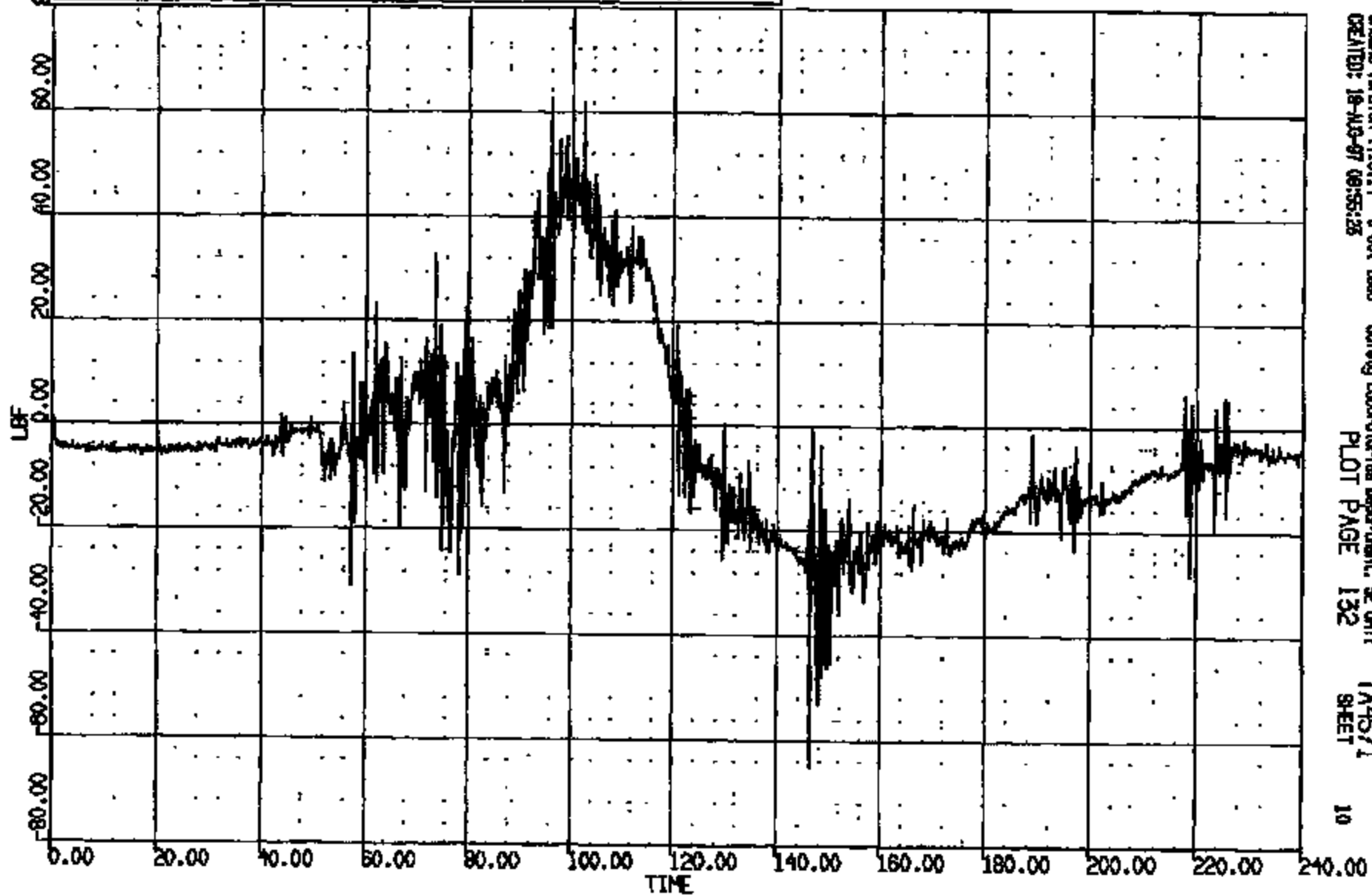
(95) CR10801T L/F DUMMY NECK UPPER LOAD FX 1000C  
MAX = 43.98 at 116.5 MS MIN = -41.13 at 75.44 MS **AXIS 1**



CADDS Version 1.16.14 - 8-Oct-1998 Safety Laboratories Department, SE Unit TA4571  
CREATED: 18-10-97 09:55:21 PLOT PAGE 131 SHEET

CR #: 10801 TO: TA4571 DATE: 970818 09:18:07  
199X UNKNOWN

(94) CR10801T L/F DUMMY NECK UPPER LIND FY 1000C  
MAX = 62.72 at 95.92 MS MIN = -65.22 at 146.2 MS **AXIS 1**

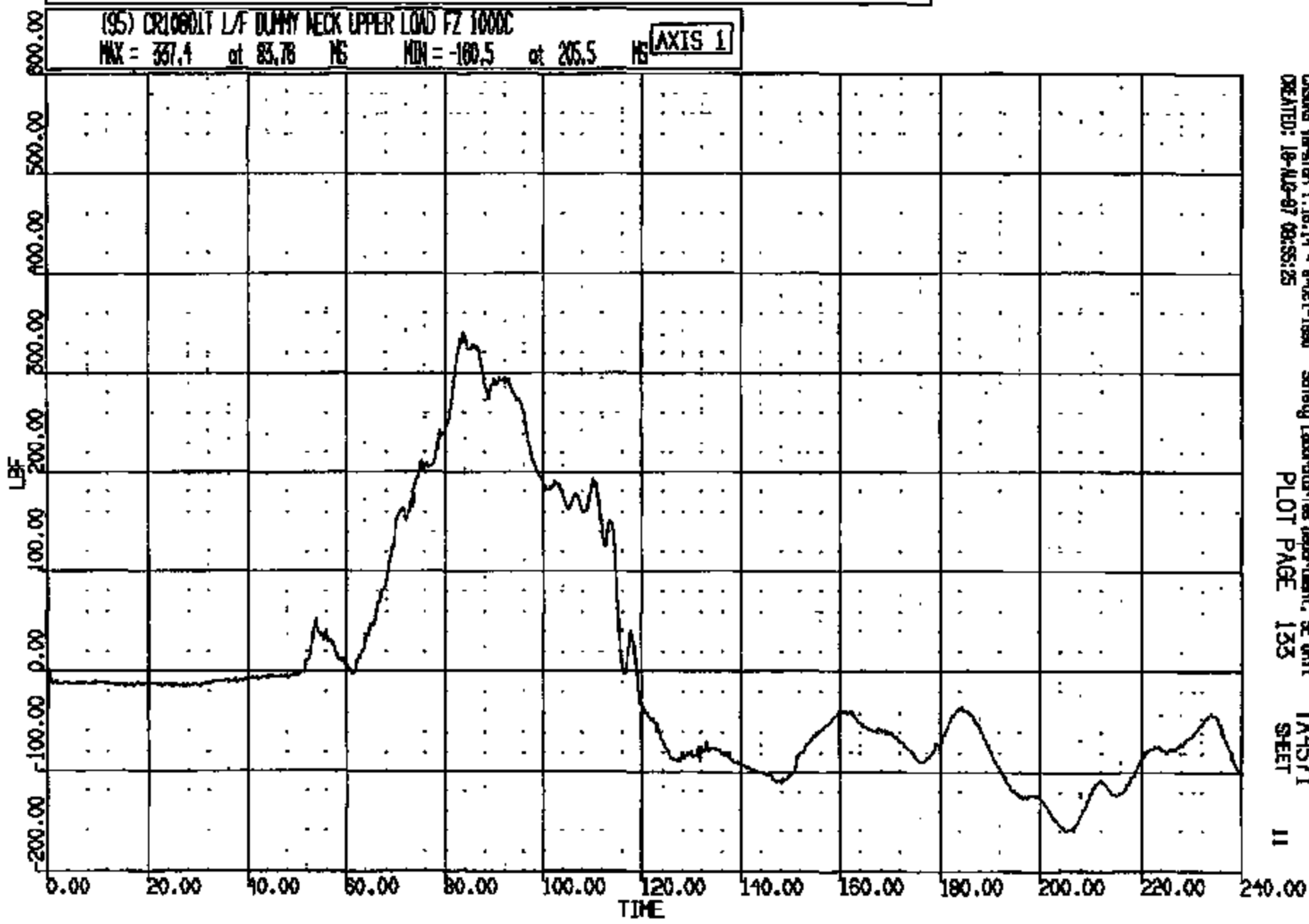


CRS01S Version 1.16.14 - 8-Oct-1998 Safety Laboratories Department, GE Unit TA4571  
CREATED: 18-AUG-97 09:55:25 PLOT PAGE 132 SHEET 10

CRTS 0010801

CR R: 10801 TO: TA4571 DATE: 970818 09:18:04  
100X UNKNOWN

(95) CR10801T L/F DUMMY NECK UPPER LOAD FZ 1000C  
MAX = 337.4 at 83.78 MS MIN = -100.5 at 205.5 MS **AXIS 1**

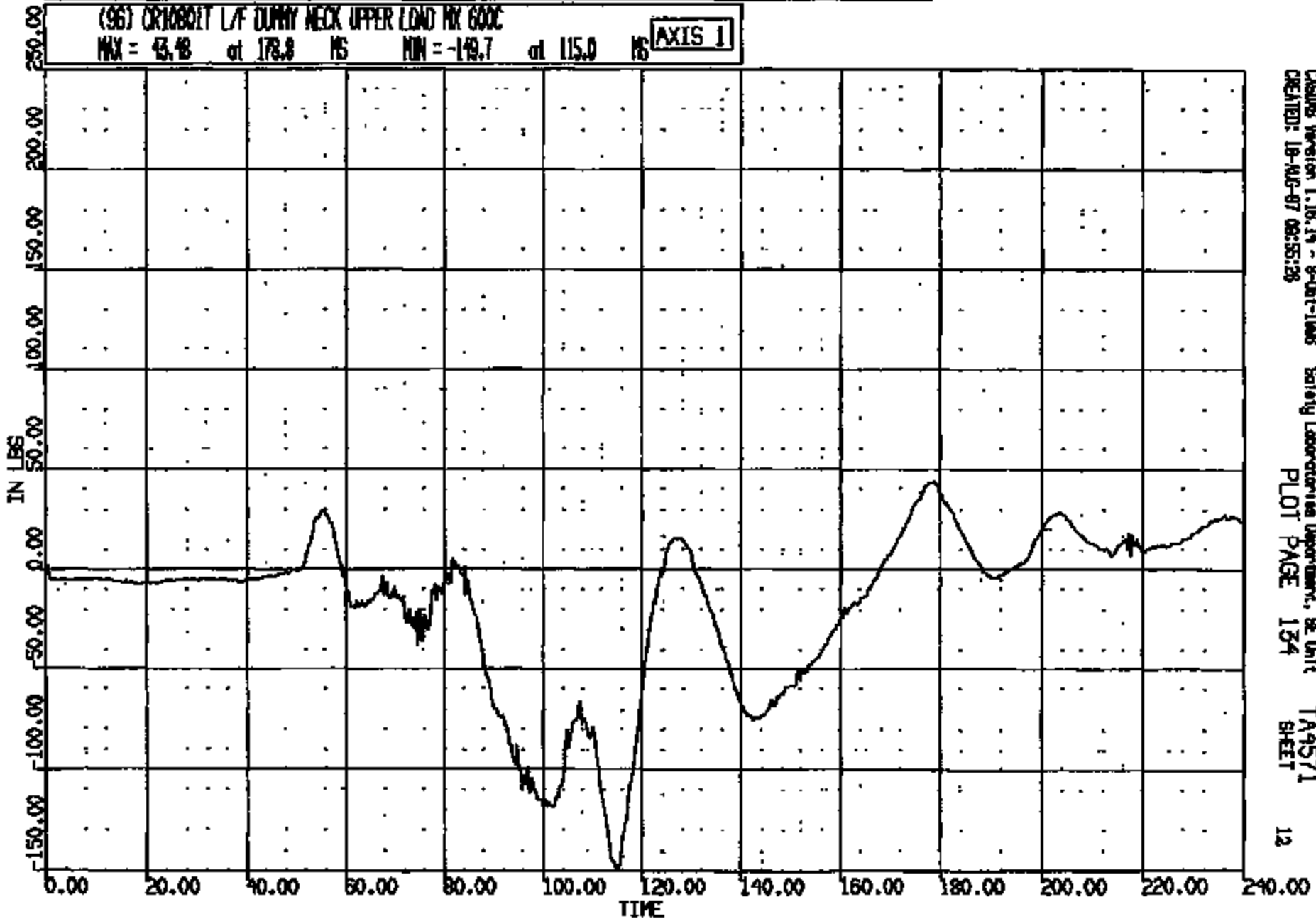


CRS05 Version 1.16.14 - 8-Oct-1998 Safety Laboratories Department, SE Unit TA4571  
CREATED: 18-AUG-97 09:55:25 PLOT PAGE 133 SHEET 11

CRTS 0010801

CR R: 10801 TO: TA4571 DATE: 970218 09:18:04  
100X UNKNOWN

(96) CR10801T L/F DUMMY NECK UPPER LOAD PK 600C  
MAX = 43.48 at 178.8 MS MIN = -149.7 at 115.0 MS **AXIS 1**

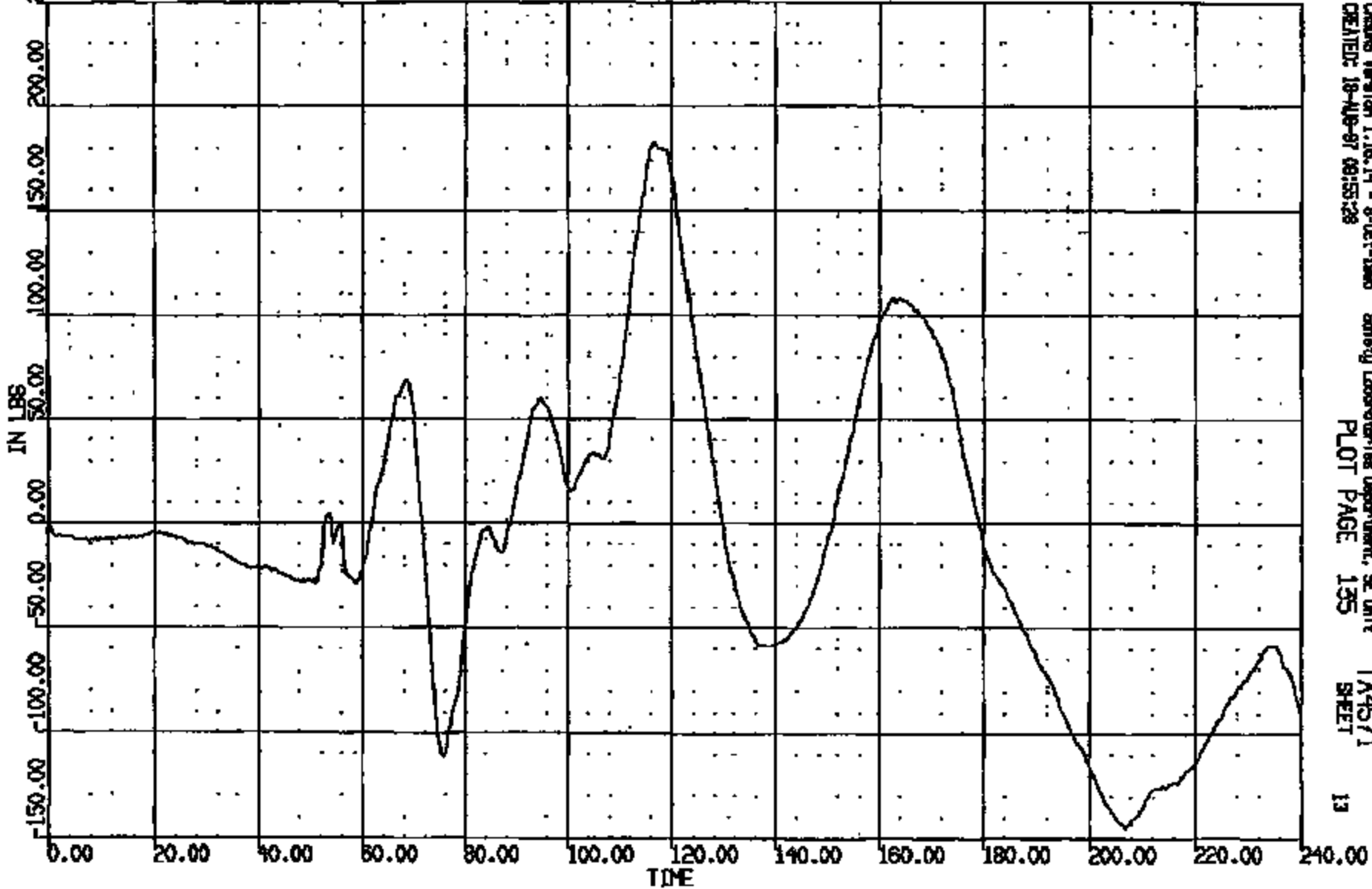


CASUS Version 1.18.14 - 8-Oct-1998 Safety Laboratories Department, SE Unit  
CREATED: 18-MAR-97 08:55:28 PLOT PAGE 134 TA4571  
SHEET 12

CRIS 0010801

CR #: 10801 TO: TA4571 DATE: 970818 09:18:04  
100X UNKNOWN

(97) CR10801 L/F DUMMY NECK UPPER LOAD BY 600C  
MAX = 182.5 at 116.5 MS MIN = -145.0 at 206.8 MS **AXIS 1**

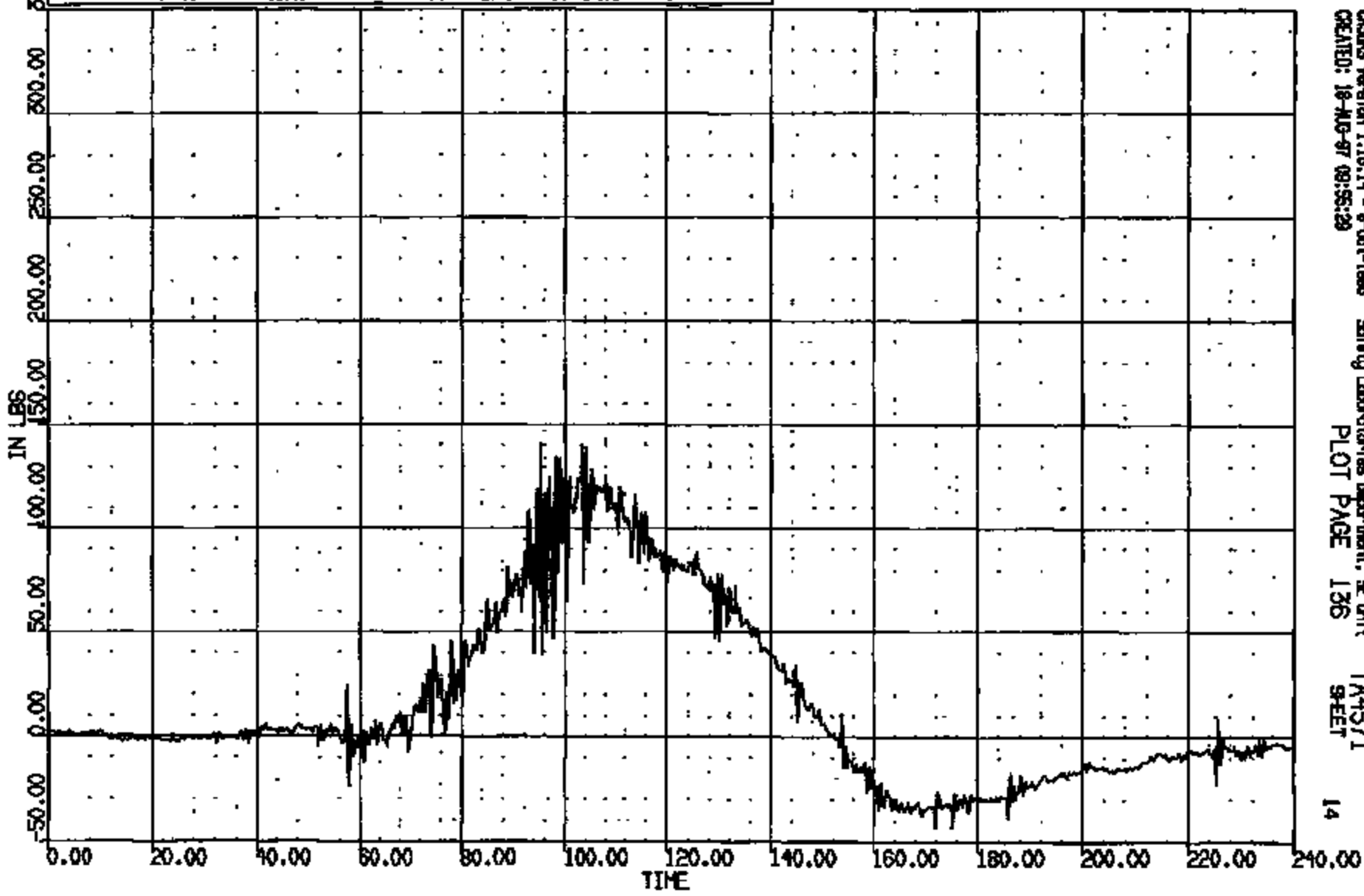


CR10801 Version 1.16.14 - 8-Dec-1998 Safety Laboratories Department, SE Unit  
CREATED: 18-AUG-97 09:55:28 PLOT PAGE 135 TA4571 SHEET 13

CR10801

CR R: 10801 TO: TA4571 DATE: 970818 09:18:04  
199X UNKNOWN

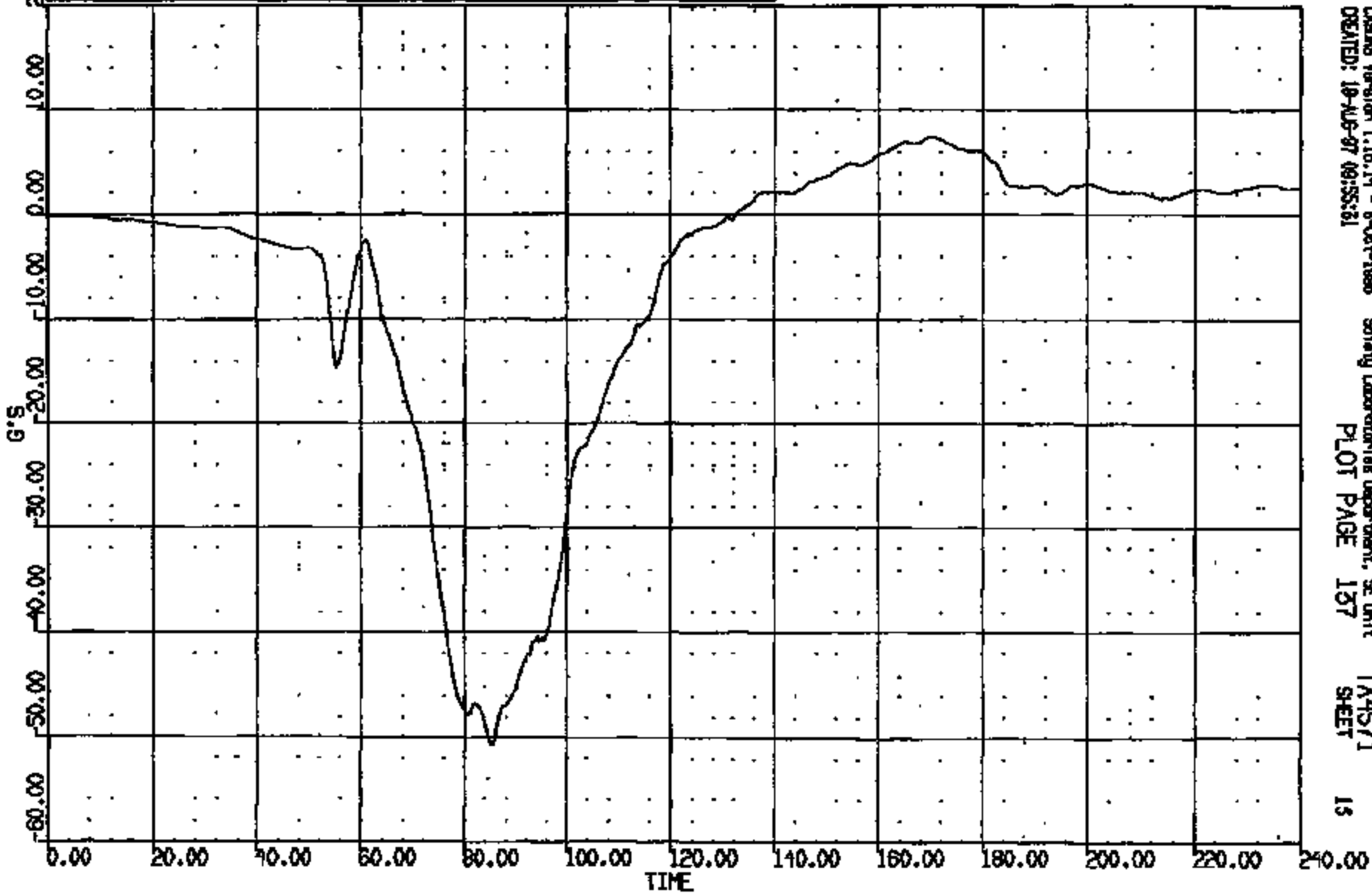
(98) CR10801T L/F DUMMY NECK UPPER LOAD MZ 600C  
MAX = 141.0 at 95.35 MS MIN = -12.49 at 175.1 MS **AXIS 1**



CASIMS Version 1.16.14 - 8-Jul-1995 Safety Laboratories Department, SE Unit  
CREATED: 18-AUG-97 09:55:29 TA4571  
PLOT PAGE 136 9-EFT

CR R: 10801 TO: TA4571 DATE: 970918 09:16:04  
199X UNKNOWN

(99) CR10801T L/F DUMMY CHEST LONG 180C  
MAX = 7.44 at 169.8 MS MIN = -50.82 at 85.36 MS **AXIS 1**

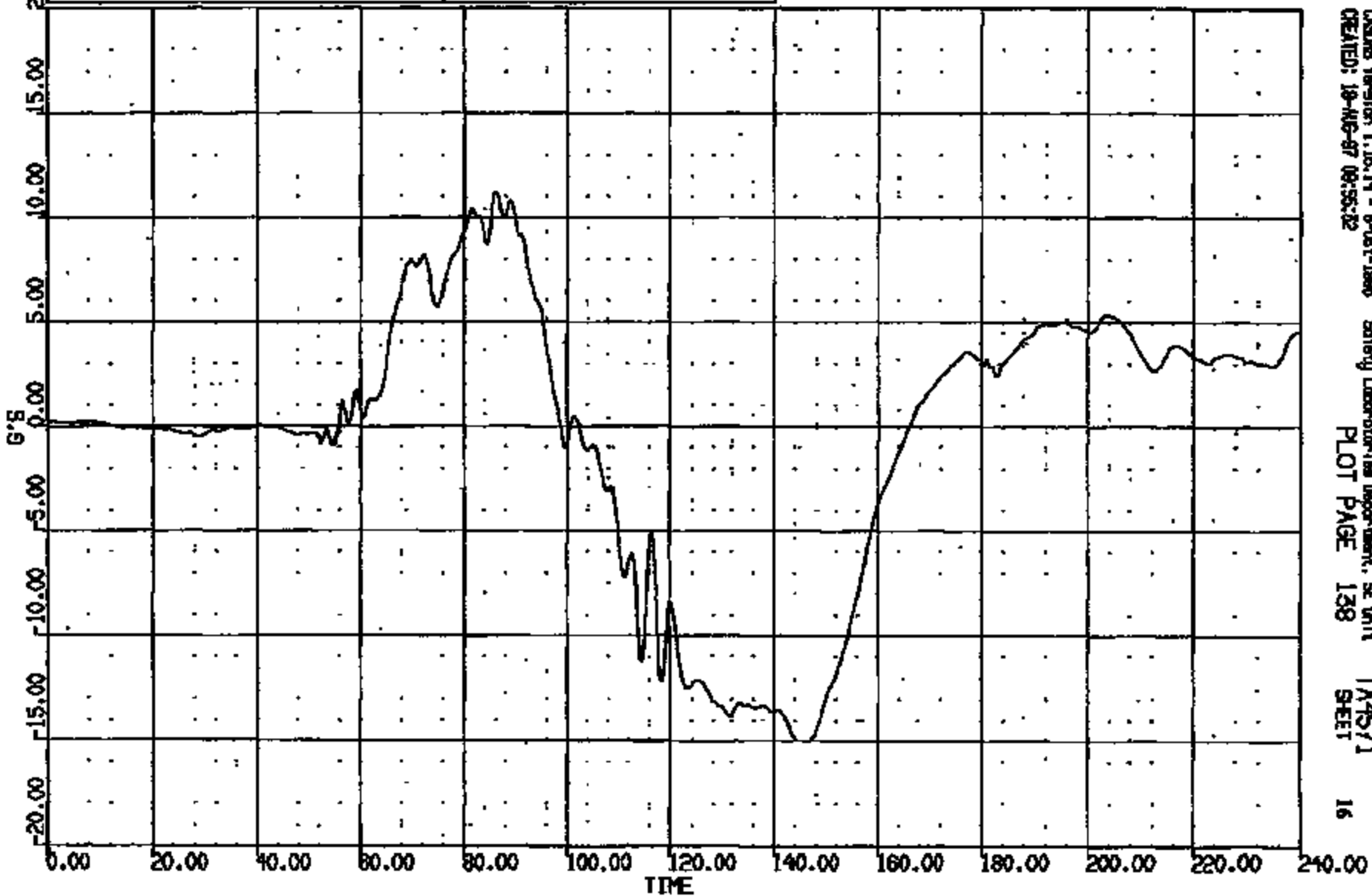


CRSING Version 1.16.14 - 8-Oct-1996 Safety Laboratories Department, SE Unit  
CREATED: 18-AUG-97 09:55:51 PLOT PAGE 157 TA4571 SHEET 15

CRIS 0010801

CR #: 10801 TO: TA4571 DATE: 970818 09:15:04  
ISSX UNKNOWN

(100) CR10801T L/F DUMMY CHEST VERT 180C  
MAX = 11.25 at 86.08 MS MIN = -15.06 at 146.2 MS **AXIS 1**



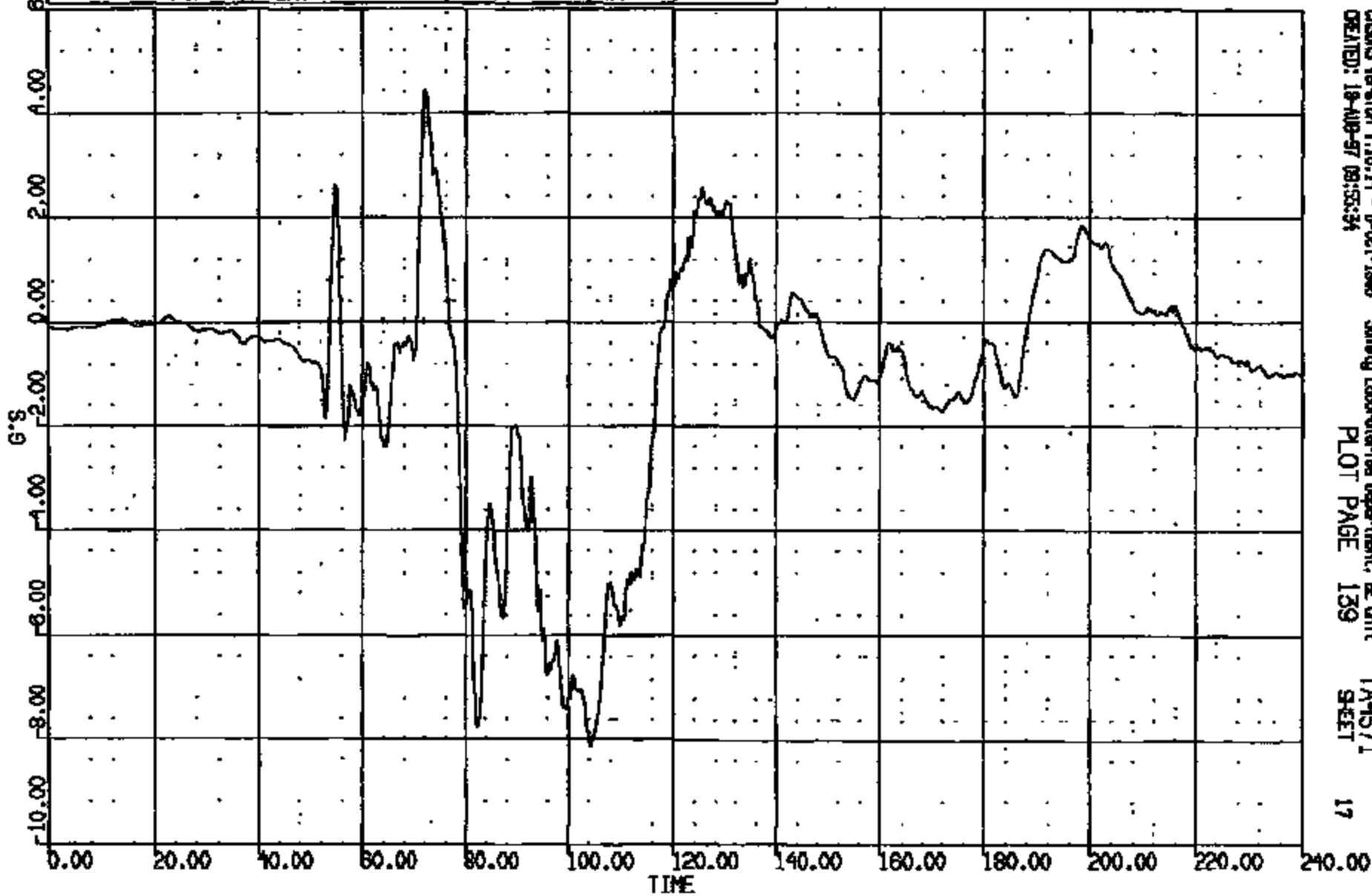
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CREATED: 18-AUG-97 09:55:32 PLOT PAGE 138 TA4571 SHEET 16

CRIS 0010801



CR R: 10801 TO: TA4571 DATE: 970816 08:18:04  
199X UNKNOWN

(101) CR10801 L/F CUPPY CHEST CAT 180C  
MAX = 4.455 at 72.00 MS MIN = -8.136 at 104.1 MS **AXIS 1**

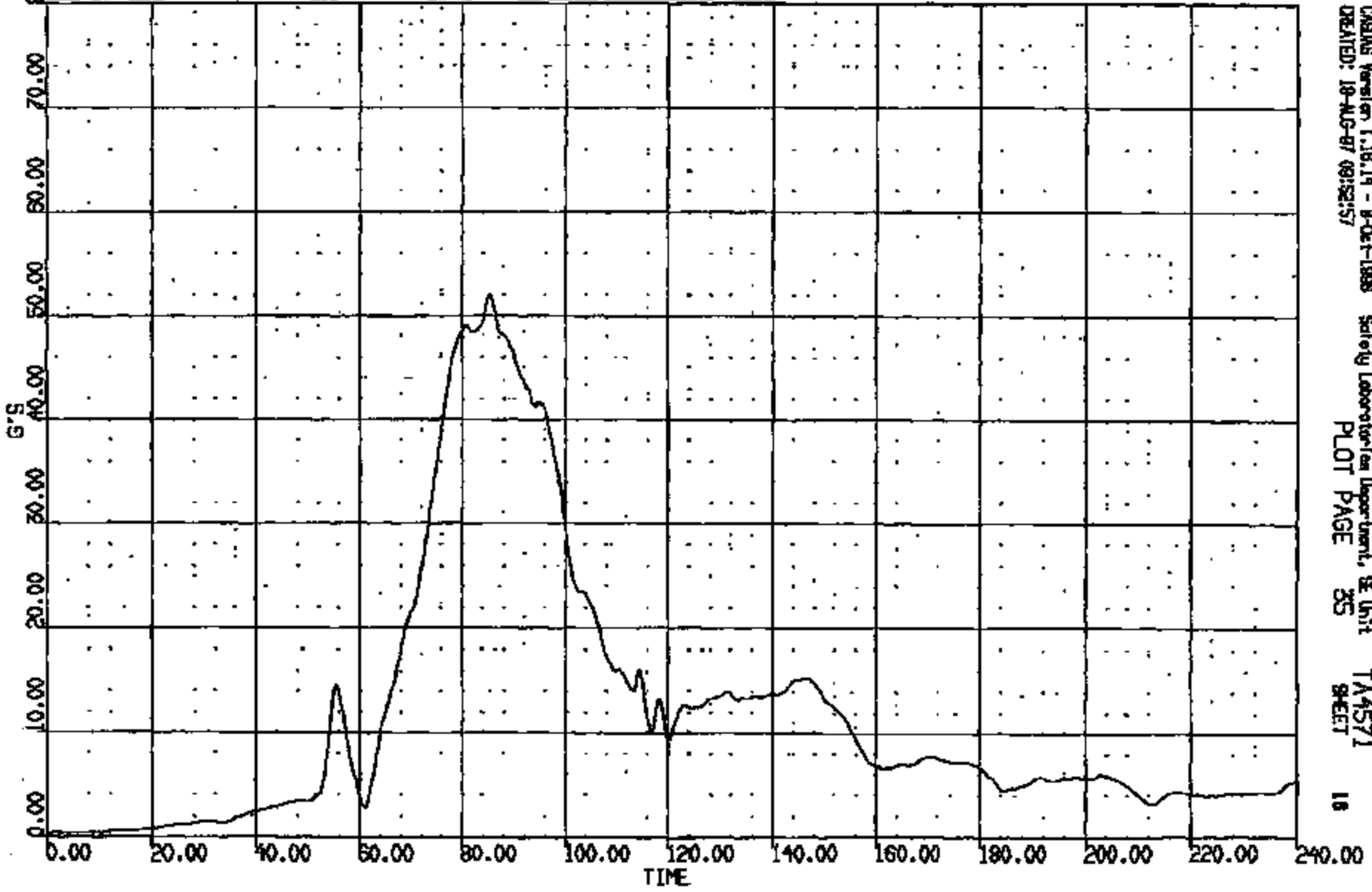


CRIMS Version 1.16.14 - P-01-1998 Safety Laboratory Department, E Unit  
CREATED: 18-AUG-97 09:55:34  
PLOT PAGE 139 TA4571  
SHEET 17

CRIS 0010801

CR R: 10801 TO: TA4571 DATE: 970816 09:15:04  
198X UNKNOWN  
CLMDUR = 49.320 Duration time = 3.0000

(10009) CR1000IT L/F DUMMY CHEST RES 180C  
MAX = 52.03 at 85.44 MS MIN = 0.2796 at 0.000E+00 MS [AXIS 1]

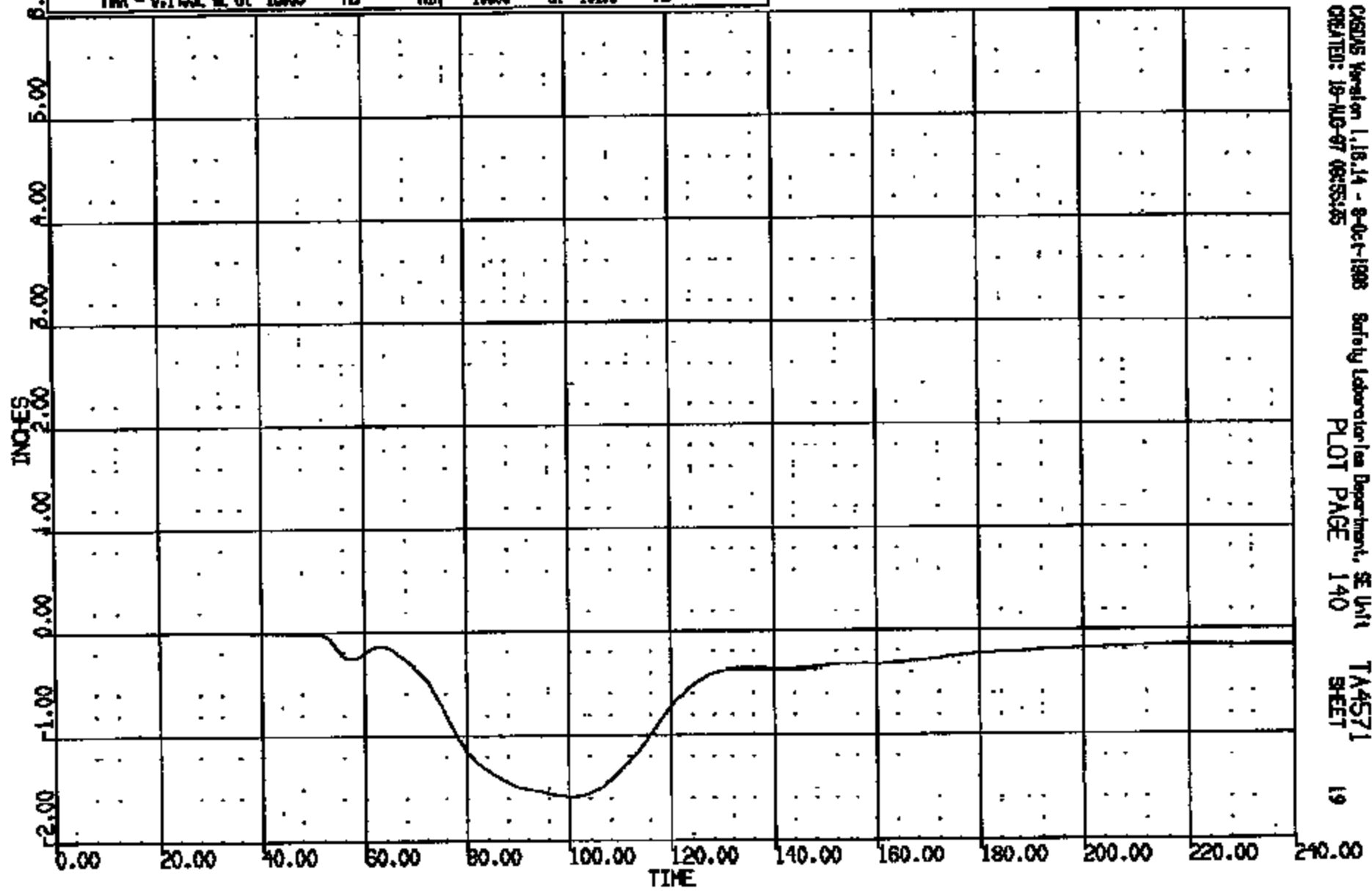


CASING Version 1.18.14 - 8-Oct-1998 Safety Laboratories Department, SE Unit TA4571  
CREATED: 19-AUG-97 09:52:57 PLOT PAGE 35 SHEET 16

CRTS 0010801

CR N: 10801 TO: TA4571 DATE: 970818 09:18:04  
199X UNKNOWN

(102) CR10801T L/F DUMMY CHEST DEFLECTION 180C  
MAX = 0.149E-02 at 13.35 MS MIN = -1.500 at 101.0 MS **AXIS 1**

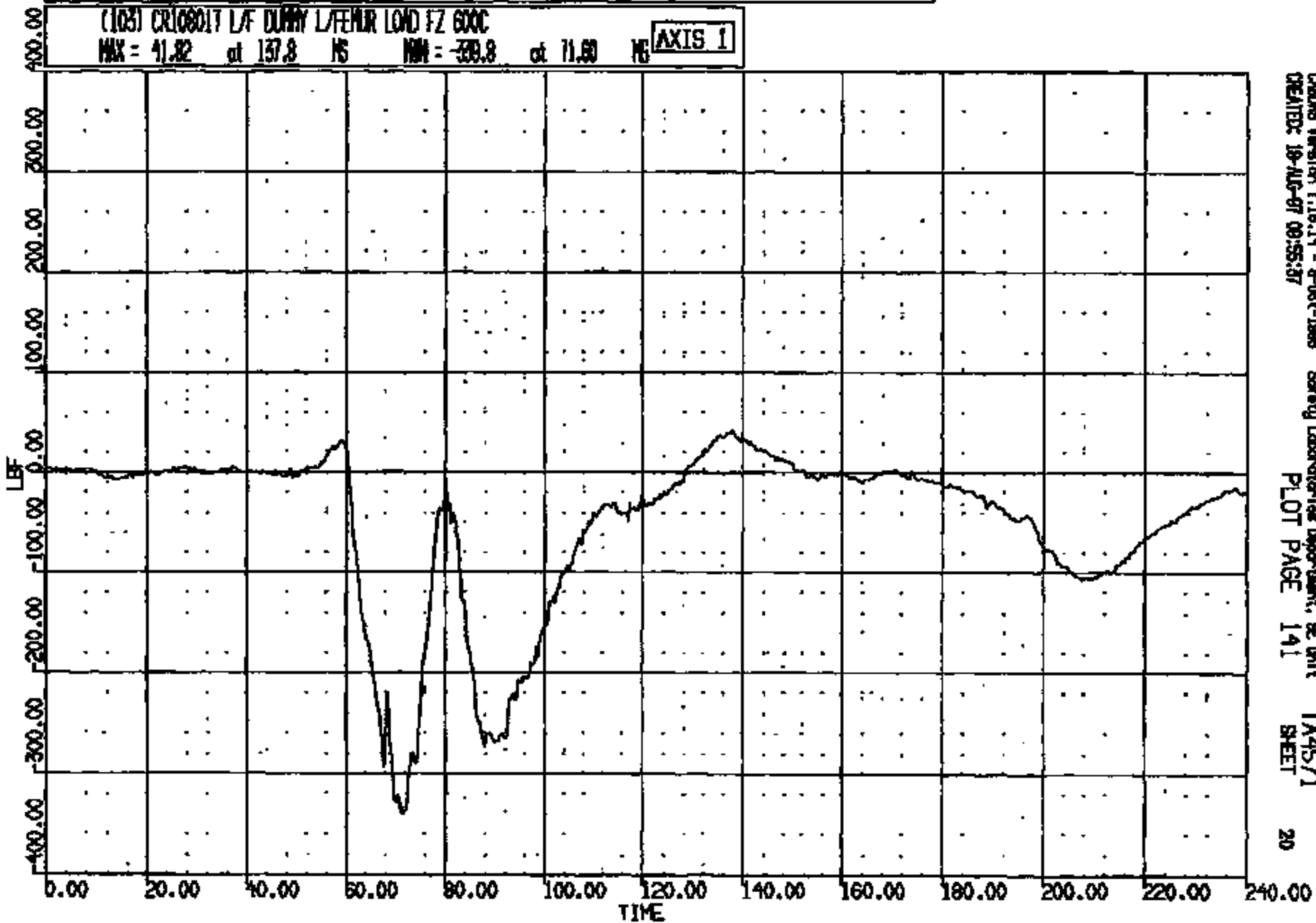


CRSUS Version 1.16.14 - 8-Oct-1998 Safety Laboratories Department, SE Unit TA4571  
CREATED: 19-AUG-97 08:55:45 PLOT PAGE 140 SHEET 19

CRTS 0010801

CR R: 10801 TO: TA4571 DATE: 970818 09:18:04  
100X UNKNOWN

(103) CR1000IT L/F DUMMY L/FEMUR LOAD FZ 600C  
MAX = 41.82 at 137.8 MS MIN = -309.8 at 71.60 MS **AXIS 1**



CRONUS Version 1.16.14 - 8-Oct-1988 Safety Laboratories Department, BE Unit TA4571  
CREATED: 18-AUG-97 09:55:37 PLOT PAGE 141 SHEET 20

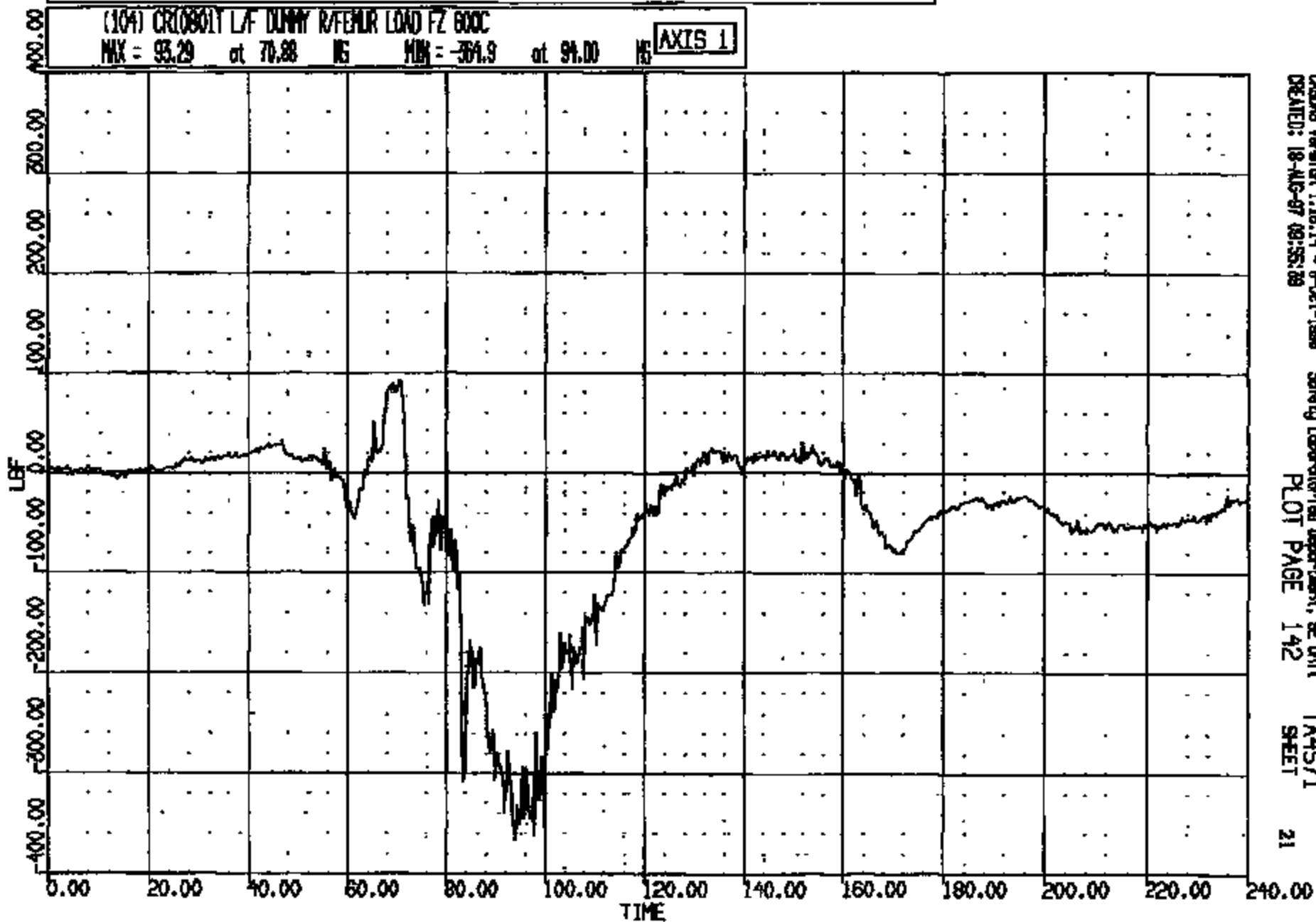
CRTS 0010801

CR R: 10801 TO: TA4571 DATE: 970818 08:18:04  
189X UNKNOWN

(104) CR10801T L/F DUMMY R/FENR LOAD FZ 800C

MAX = 93.29 at 70.88 NS MIN = -364.9 at 91.00 NS

AXIS 1



CADDS Version 1.16.14 - 8-Oct-1998  
CREATED: 18-AUG-97 09:55:28

Safety Laboratory Department, BE Unit  
PLOT PAGE 142

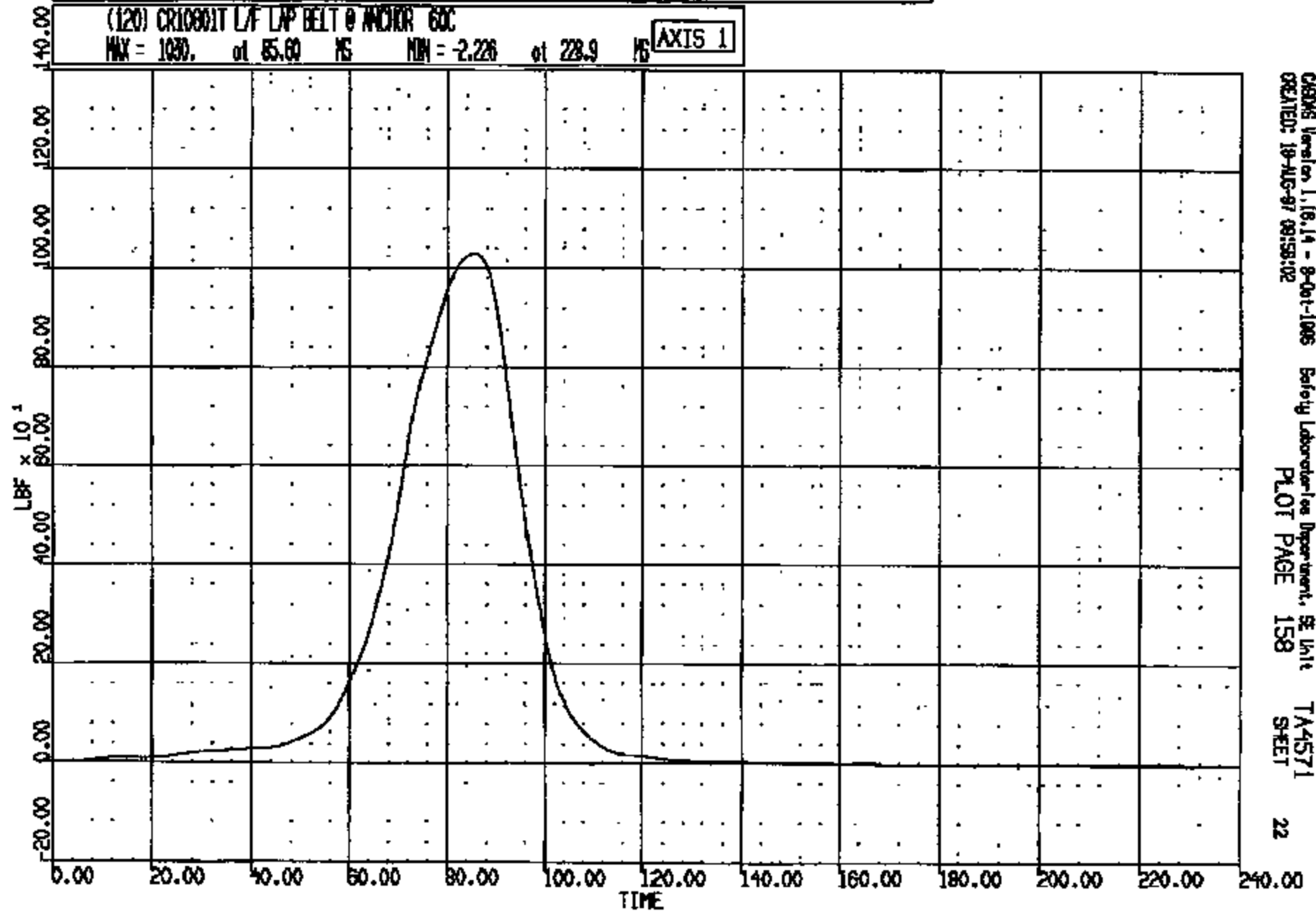
TA4571  
SHEET

21

CRITS 0010801

CR R: 10801 TO: TA4571 DATE: 970818 09:16:04  
188X UNKNOWN

(120) CR10801T L/F LAP BELT @ ANCHOR 60C  
MAX = 1030. of 85.00 MS MIN = -2.226 of 228.9 MS **AXIS 1**



CRTS 0010801

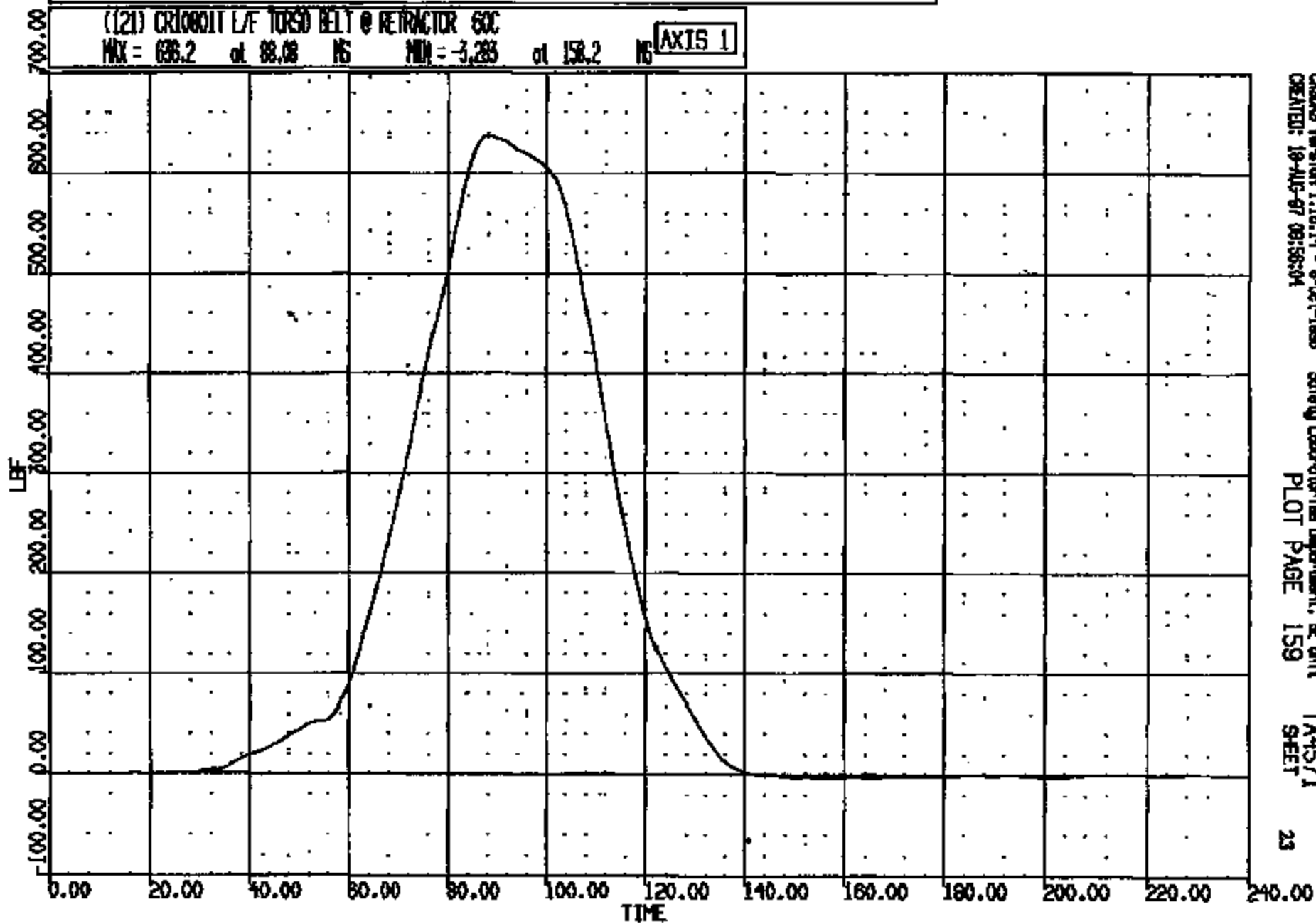
CASMS Version 1.18.14 - 9-06-1995  
CREATED: 18-AUG-97 09:58:10Z  
Boeing Laboratories Department, SE Unit  
PLOT PAGE 158  
TA4571  
SHEET 22

CR #: 10801 TO: TA4571 DATE: 970818 09:18:04  
199X UNKNOWN

(121) CR1000IT L/F TORSO BELT @ RETRACTOR 60C

MAX = 636.2 at 88.08 MS MIN = -3.283 at 158.2 MS

AXIS 1



CHROM Version 1.16.14 - 8-Oct-1998  
CREATED: 18-AUG-97 08:58:04

Safety Laboratories Department, SE Unit  
PLOT PAGE 159

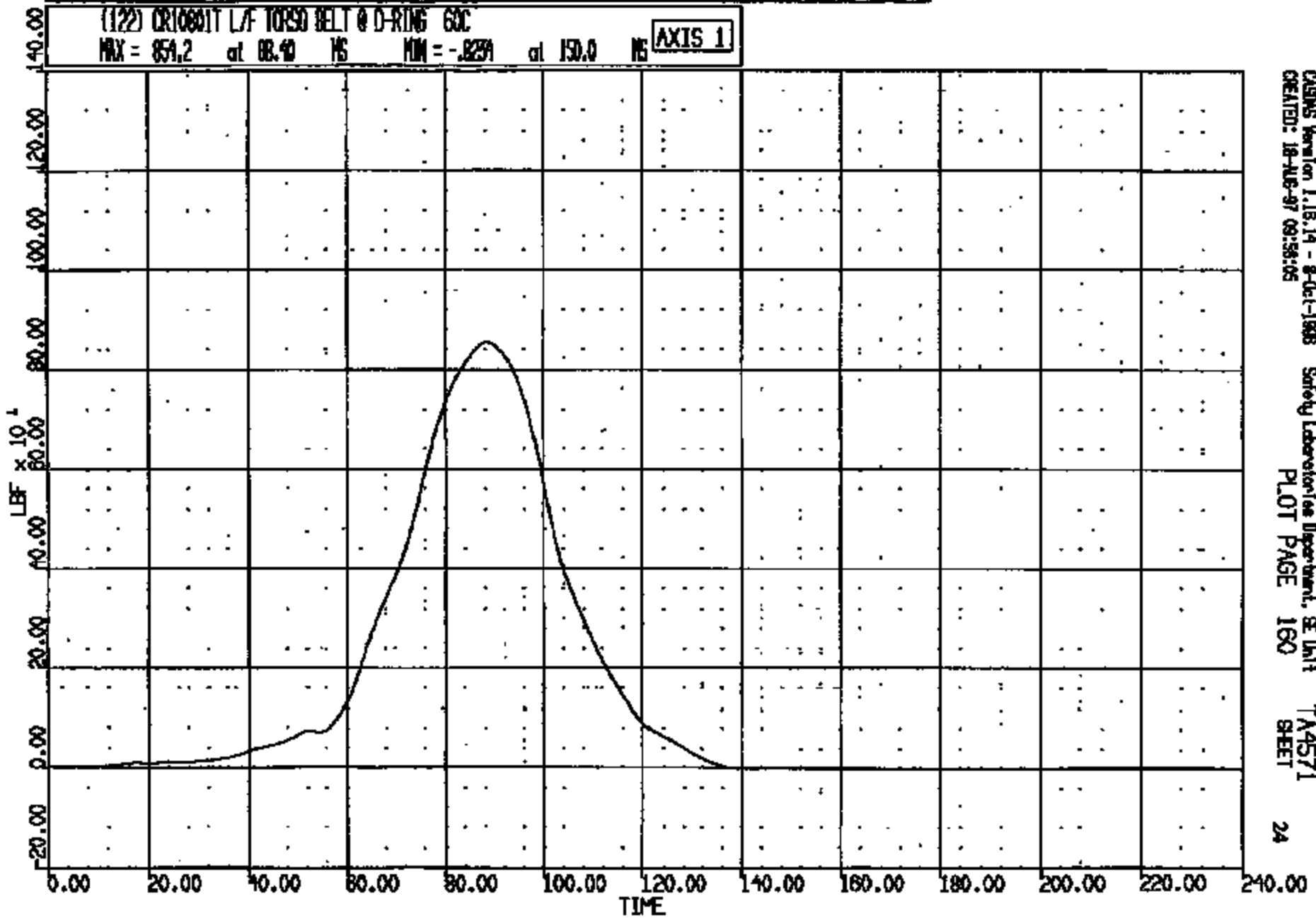
TA4571  
SHEET

23

CRTS 0010801

CR R: 10801 TO: TA4571 DATE: 870818 09:18:04  
199X UNKNOWN

(122) CR10801T L/F TORSO BELT @ D-RING 60C  
MAX = 854.2 at 88.40 MS MIN = -.8234 at 150.0 MS **AXIS 1**



CASINS Kempton J.18.14 - 8-Oct-1988 Safety Laboratory/see Department, SE Unit  
CREATED: 18-AUG-97 09:58:05 PLOT PAGE 160 TA4571 SHEET 24

CRTS 0010801

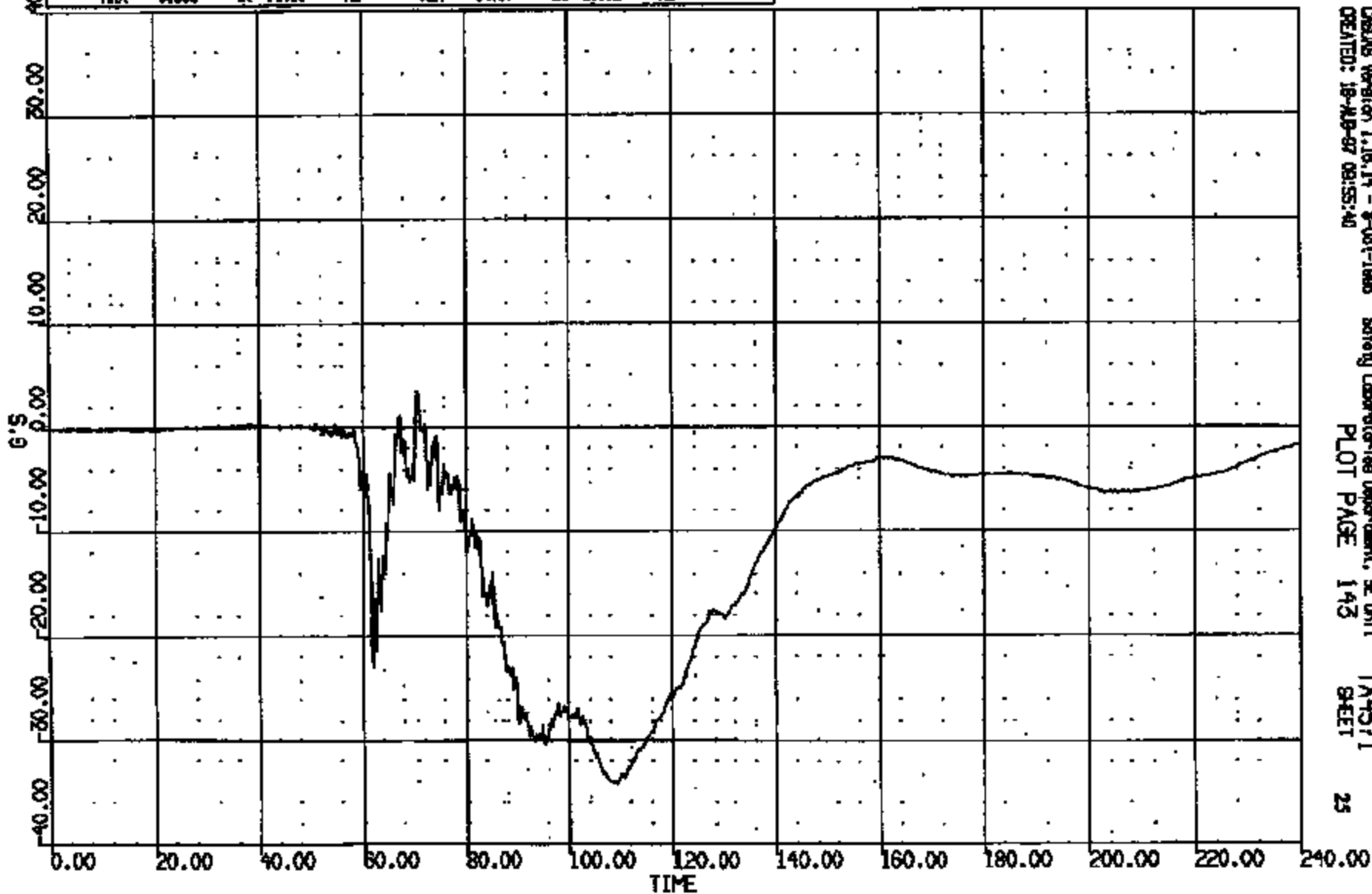


CR R: 10801 TO: TA4571 DATE: 870818 08:18:04  
189X UNKNOWN

(105) CR1000IT R/F DUMM HEAD C.G. LONG 1000C

MAX = 3.585 at 70.56 MS MIN = -31.37 at 109.2 MS

AXIS 1



CARDAS Version 1.18.14 - 8-04-1988  
CREATED: 18-AUG-87 08:55:40

Safety Laboratory Department, SE Unit  
PLOT PAGE 143

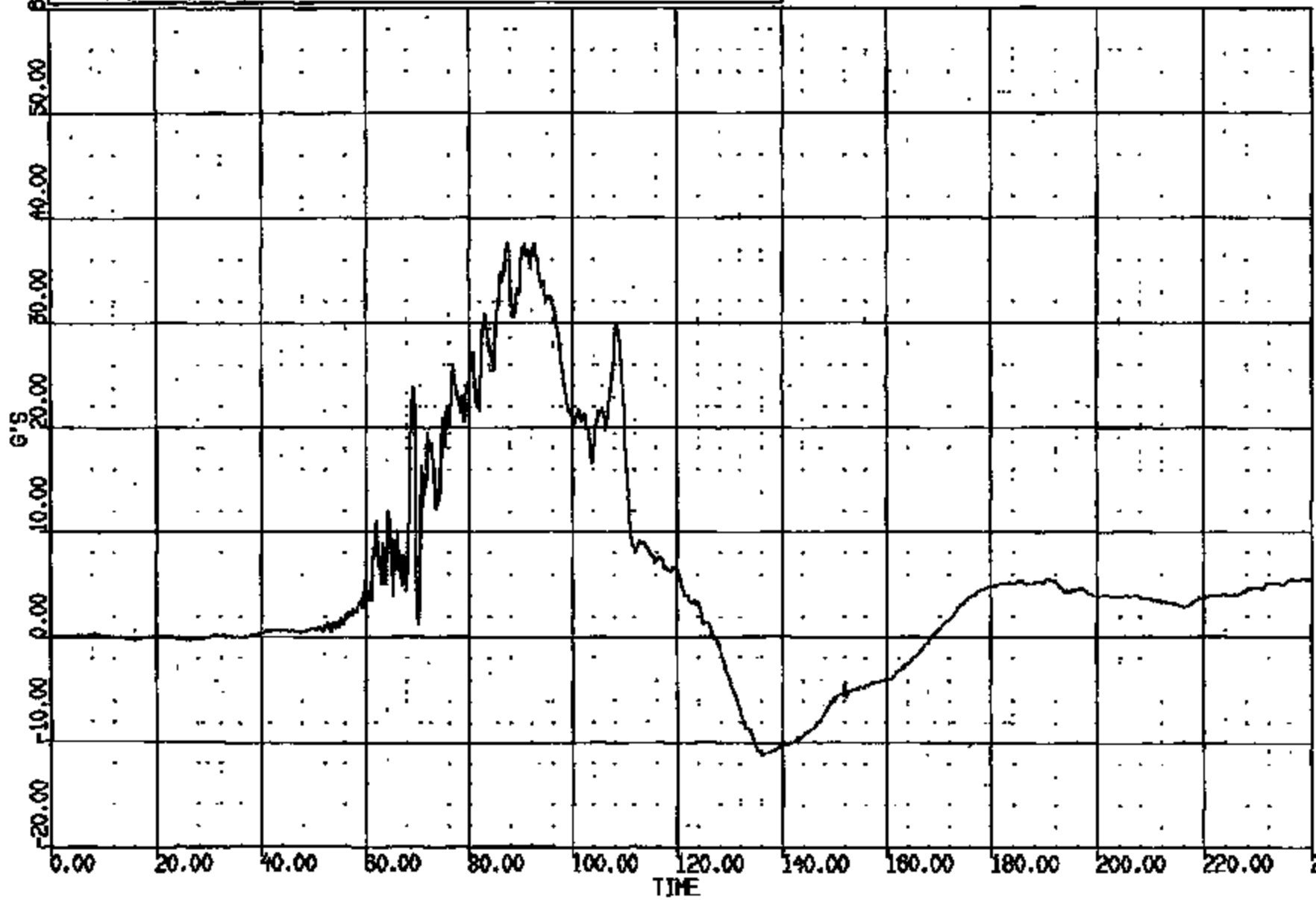
TA4571  
SHEET

25

CRTS 0010801

CR R: 10801 TO: TA4571 DATE: 970818 09:18:04  
180X UNKNOWN

(106) CR10801T R/F DUNNY HEAD C.G. VERT 1000C  
MAX = 37.61 at 87.36 MS MIN = -11.19 at 136.5 MS **AXIS 1**



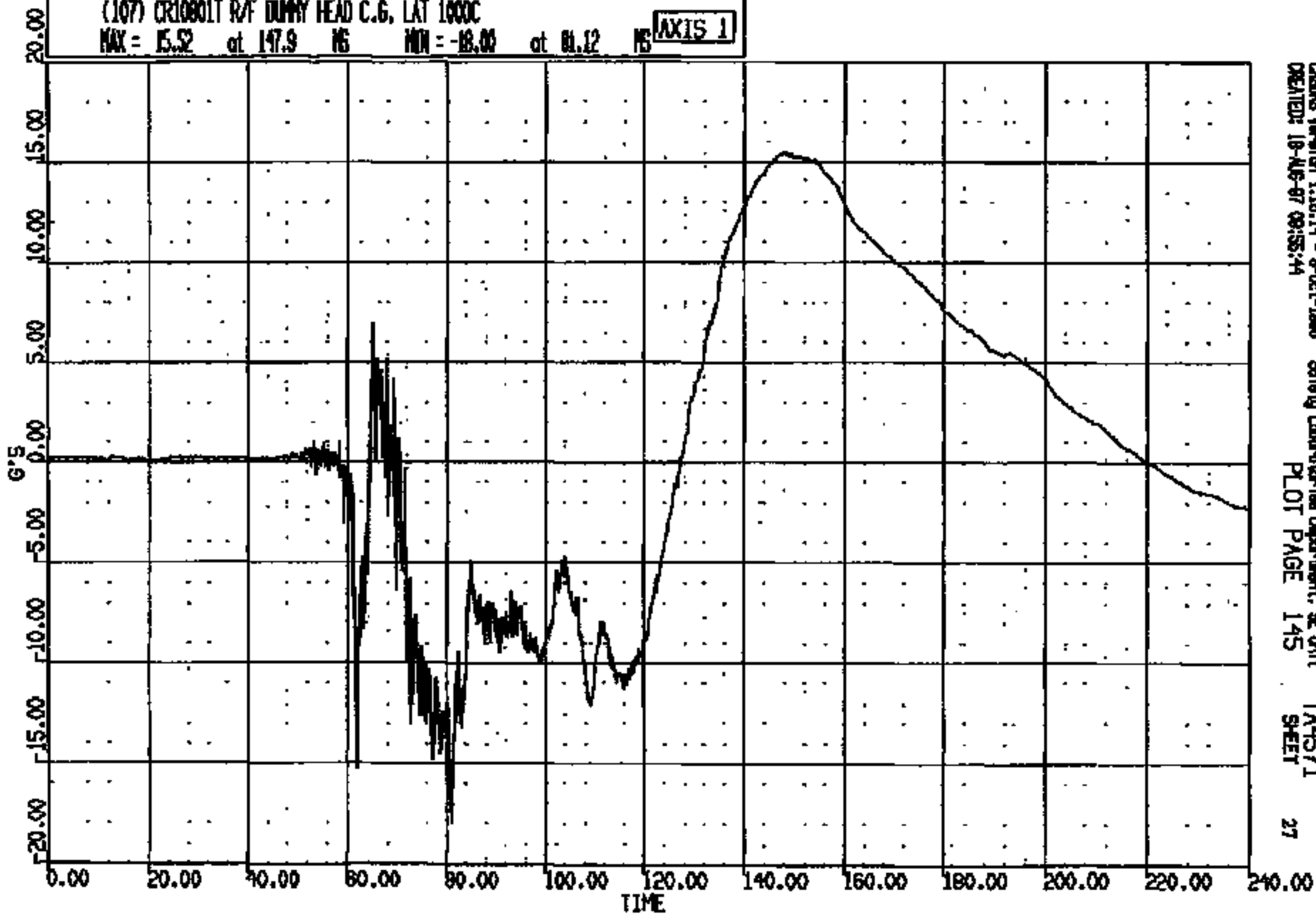
CRSWS Version 1.18.14 - 9-Oct-1998 Safety Laboratories Department, SE Unit  
CREATED: 18-AUG-97 09:55:42 PLOT PAGE 144 TA4571  
SHEET 26

CRIS 0010801

CR #: 10801 TO: TA4571 DATE: 870818 08:18:04  
199X UNKNOWN

(107) CR10801 R/F DUMMY HEAD C.G. LAT 1000C  
MAX = 15.52 at 147.9 MS MIN = -18.00 at 81.12 MS

AXIS 1



CRMS Version 1.16.14 - 8-Oct-1988  
CREATED: 18-AUG-87 08:55:44

Safety Laboratories Department, SE Unit  
PLOT PAGE 145

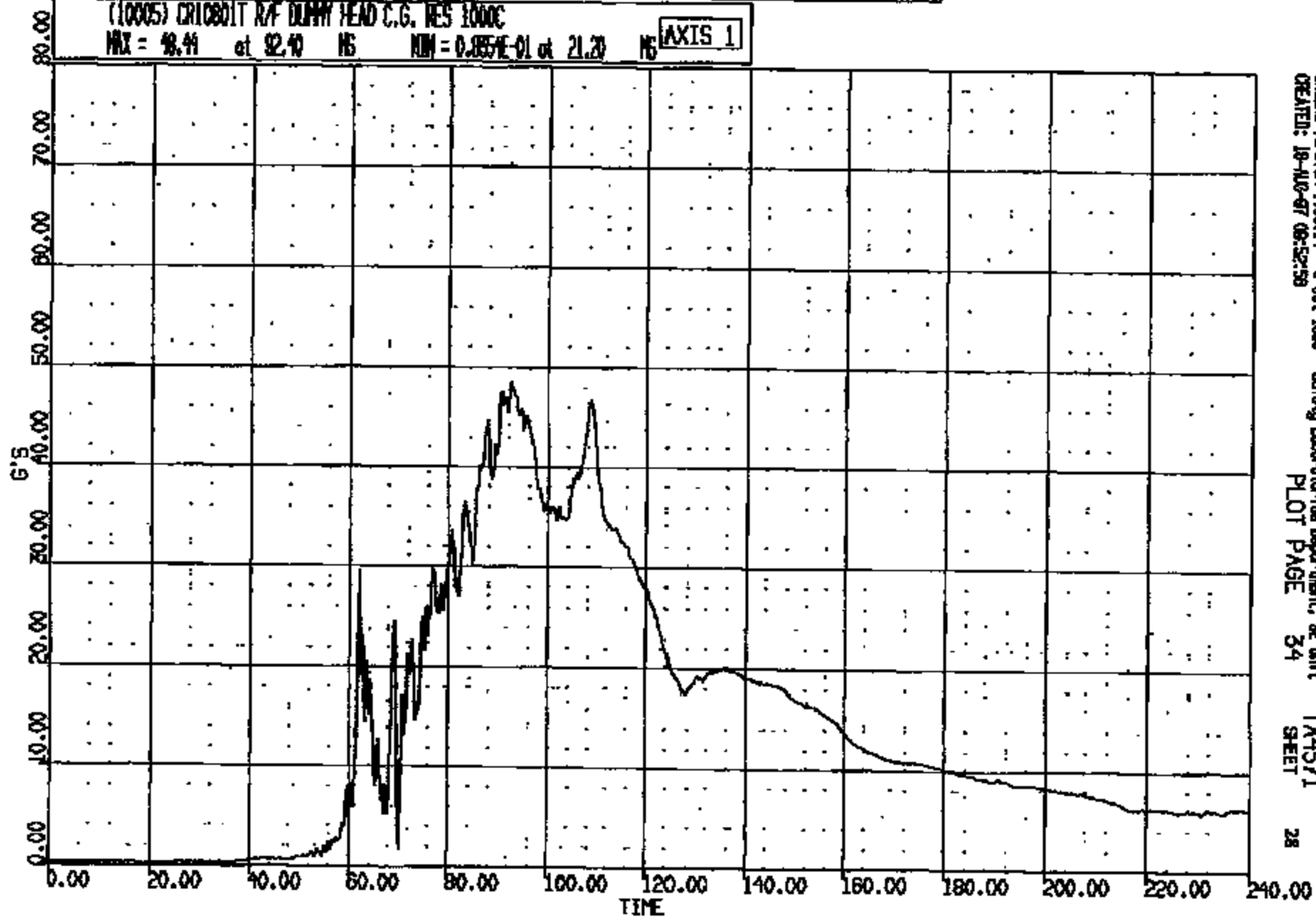
TA4571  
SHEET

27

CRTS 0010801

CR R = 10801 TD: TA4571 DATE: 070818 08:18:04  
 I108X UNKNOWN  
 I1100: 870. DUR: 240.0 T1/T2: 74.8 // 124.  
 I1200: 554. DUR: 98.0 T1/T2: 88.8 // 118.  
 I1300: 178. DUR: 18.0 T1/T2: 88.8 // 100.

(10005) CR10801T R/F DUMMY HEAD C.G. RES 1000C  
 MAX = 98.41 at 92.40 MS MIN = 0.0851E-01 at 21.20 MS **AXIS 1**

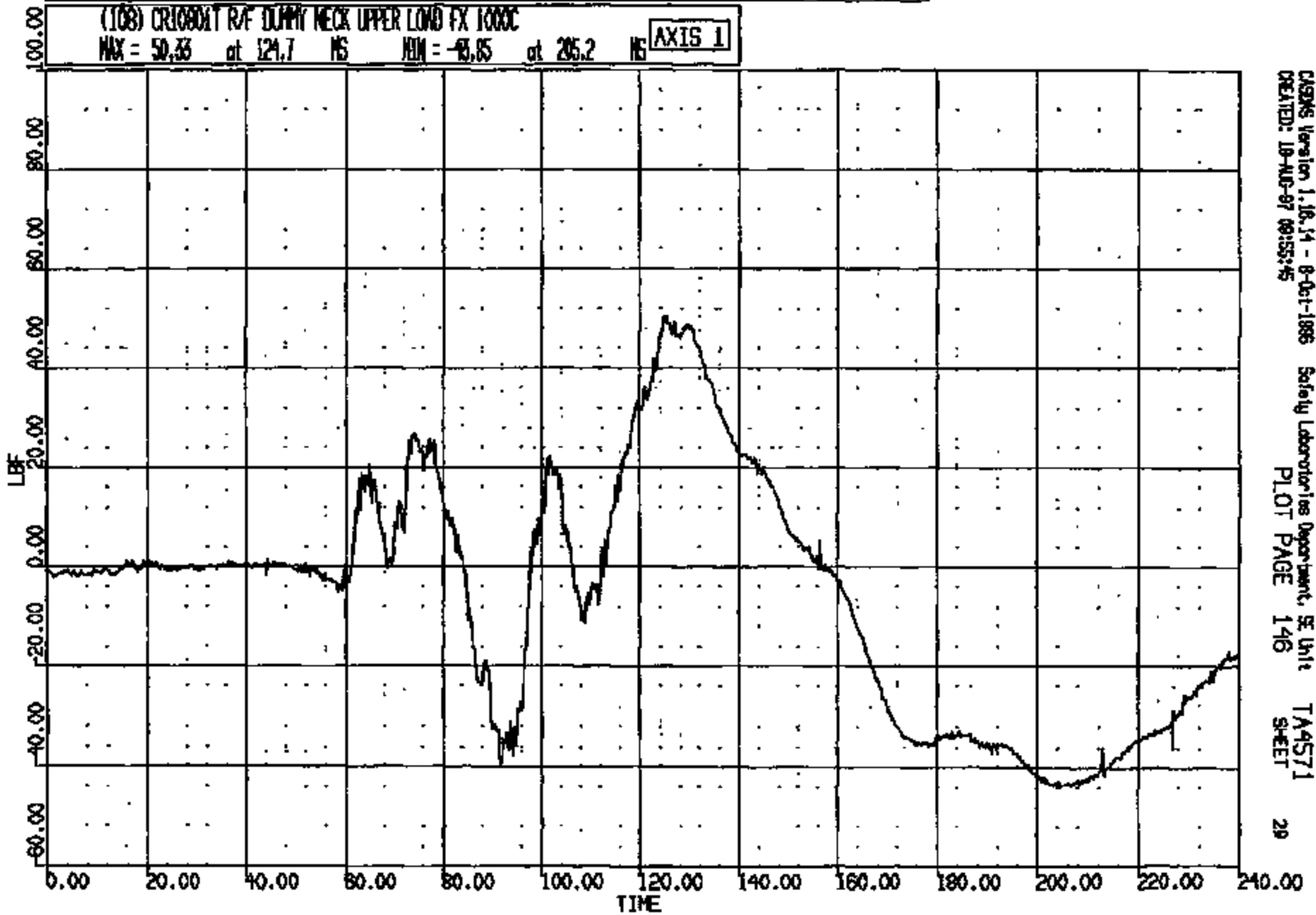


CR R: 10801 TO: TA4571 DATE: 970818 09:18:04  
100X UNKNOWN

(108) CR10801 R/F DUMMY NECK UPPER LOND FX 1000C

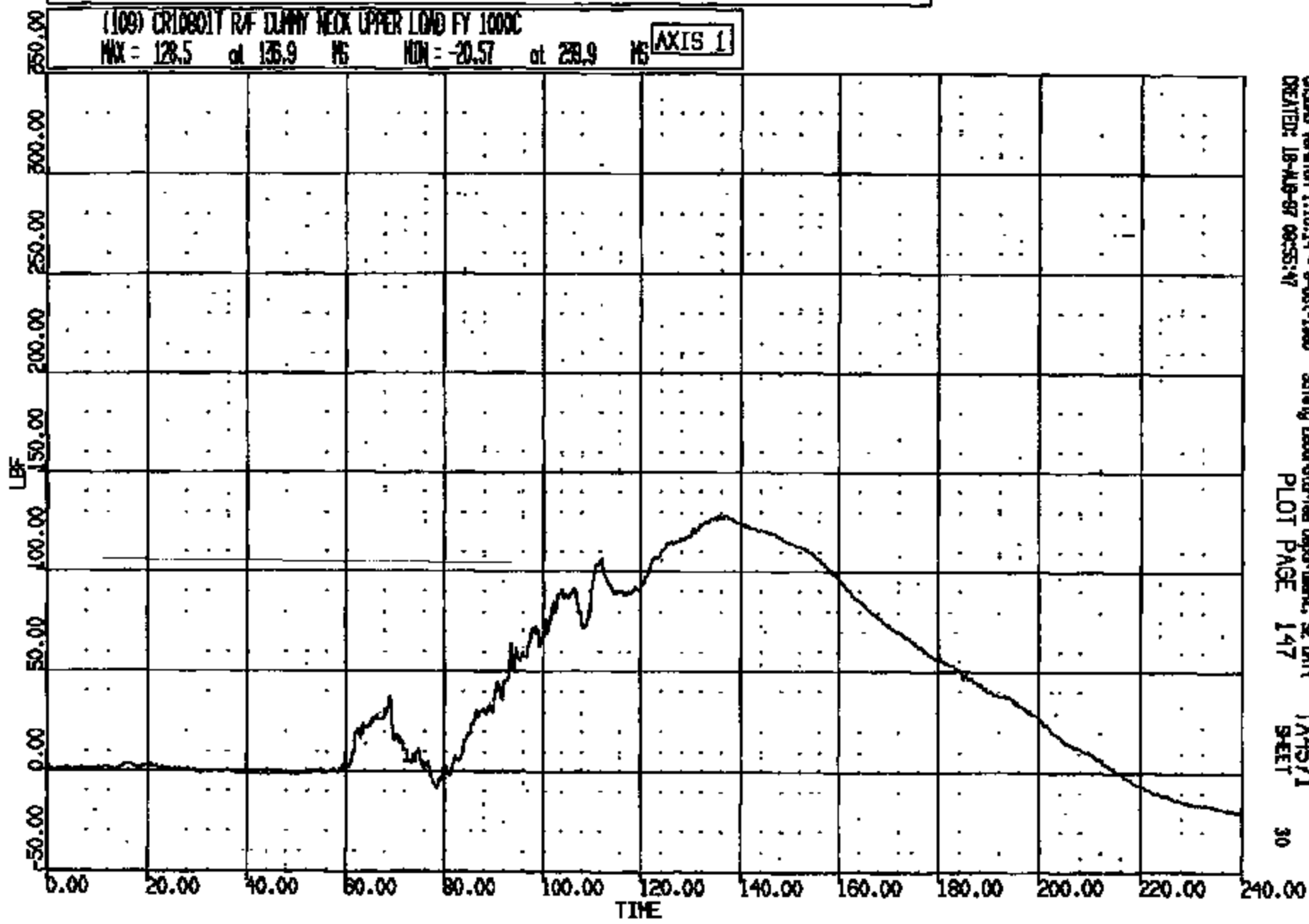
MAX = 50.35 at 124.7 MS MIN = -48.85 at 205.2 MS

AXIS 1



CR R: 10801 TO: TA4571 DATE: 870818 09:18:04  
199X UNKNOWN

(109) CR10801T RF DUMMY NECK UPPER LOAD FY 1000C  
MAX = 128.5 at 135.9 MS MIN = -20.57 at 283.9 MS **AXIS 1**



CRSWS Version 1.16.14 - 9-Oct-1988 Safety Laboratories Department, SE Unit  
CREATED: 18-AUG-87 08:55:47 PLOT PAGE 147 TA4571 SHEET 30

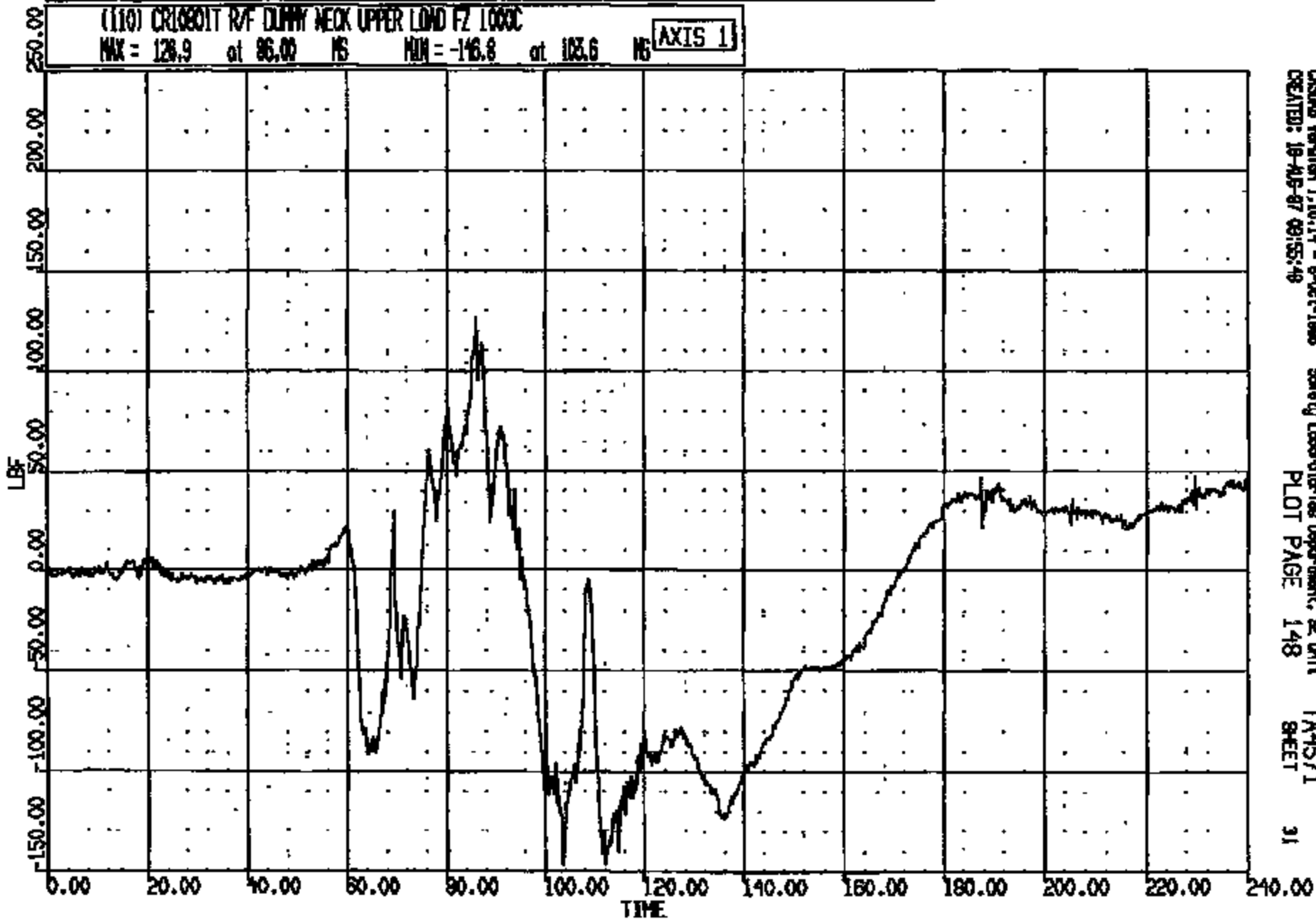
CRIS 0010801

CR #: 10801 TO: TA4571 DATE: 970818 09:18:04  
189X UNKNOWN

(110) CR10801 R/F DUMMY NECK UPPER LIND FZ 1080C

MAX = 128.9 at 86.00 MS MIN = -143.8 at 103.6 MS

AXIS 1



CRS04 Version 1.16.14 - 8-Oct-1998  
CREATED: 18-AUG-97 09:55:48

Safety Laboratories Department, SE Unit  
PLOT PAGE 148

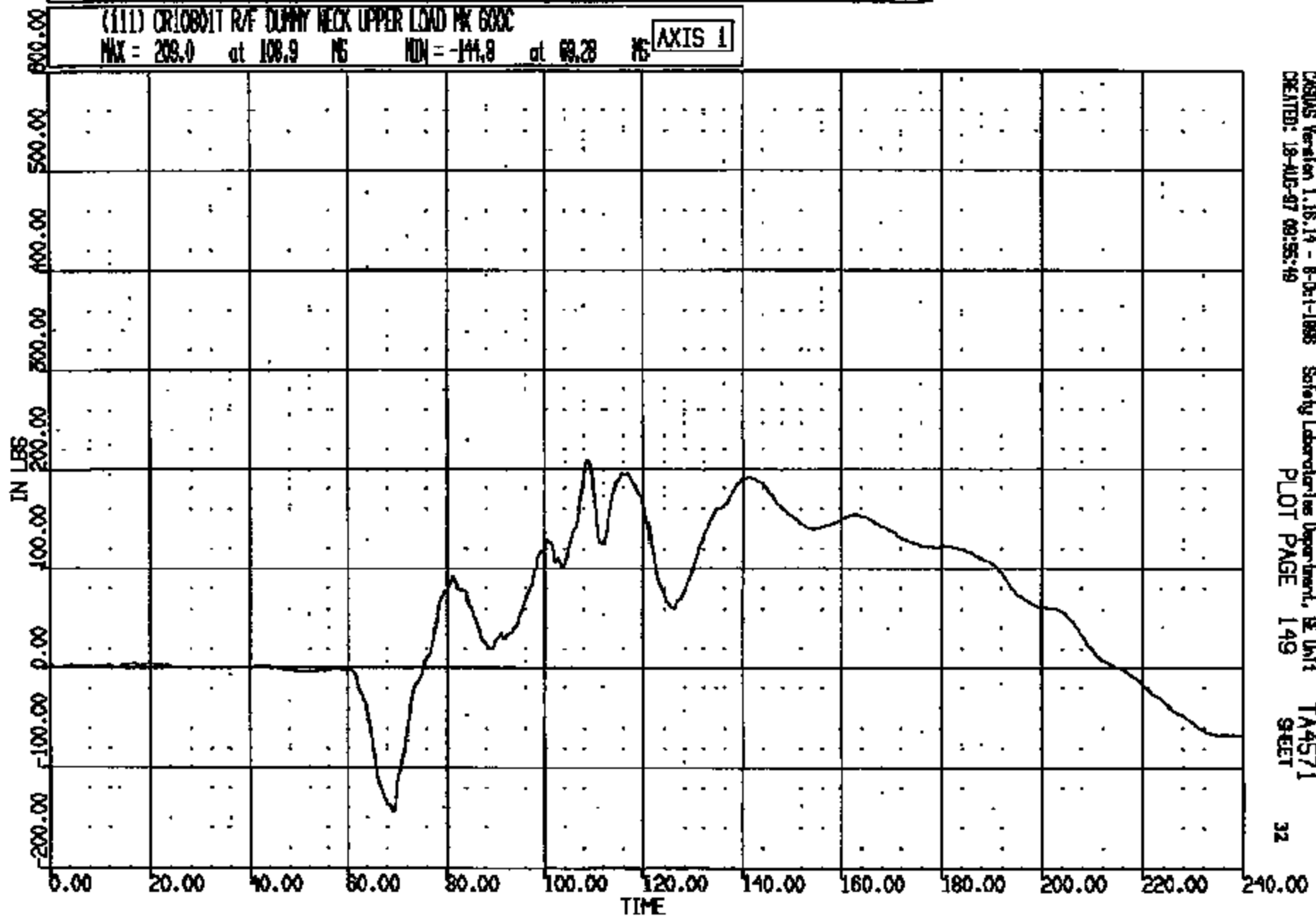
TA4571  
SHEET

31

CRTS 0010801

CR R: 10801 TO: TA4571 DATE: 870818 09:18:04  
188X UNKNOWN

(111) CR10801T R/F DUMMY NECK UPPER LOAD PK 600C  
MAX = 208.0 at 108.9 MS MIN = -144.8 at 68.28 MS **AXIS 1**



CRONUS Version 1.18.14 - 8-Dec-1988 Safety Laboratories Department, BE Unit TA4571  
CREATED: 18-AUG-87 09:55:49 PLOT PAGE 149 SHEET 32

CRTS 0010801

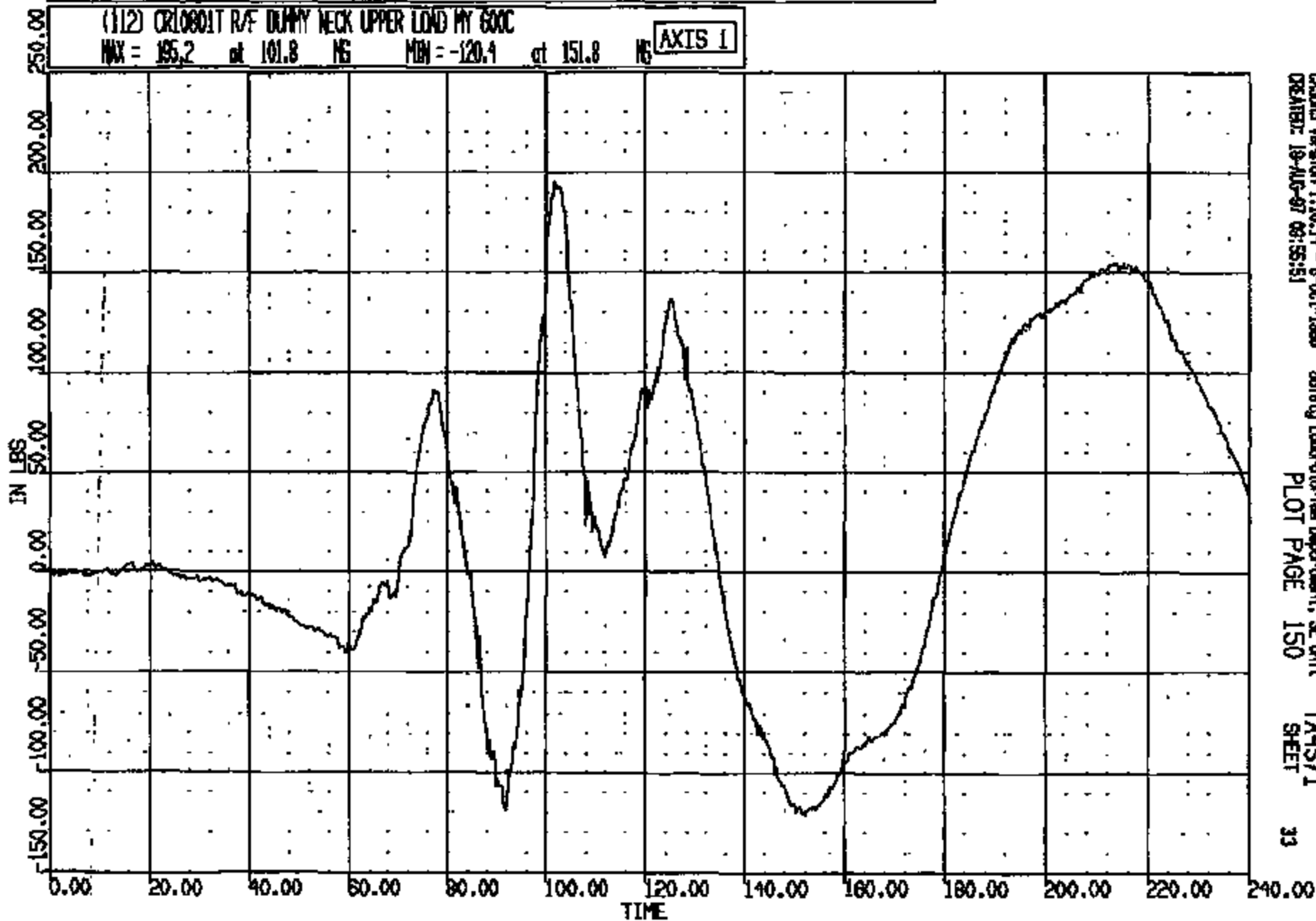


CR R: 10801 TO: TA4571 DATE: 970818 08:18:04  
199X UNKNOWN

(112) CR10801T R/F DUMMY NECK UPPER LOAD MY 600C

MAX = 195.2 at 101.8 MS MBN = -120.4 at 151.8 MS

AXIS 1



CARDAS Version 1.16.14 - 8-Oct-1998  
CREATED: 18-AUG-97 08:55:51

Safety Laboratories Department, SE Unit  
PLOT PAGE 150

TA4571  
SHEET

33

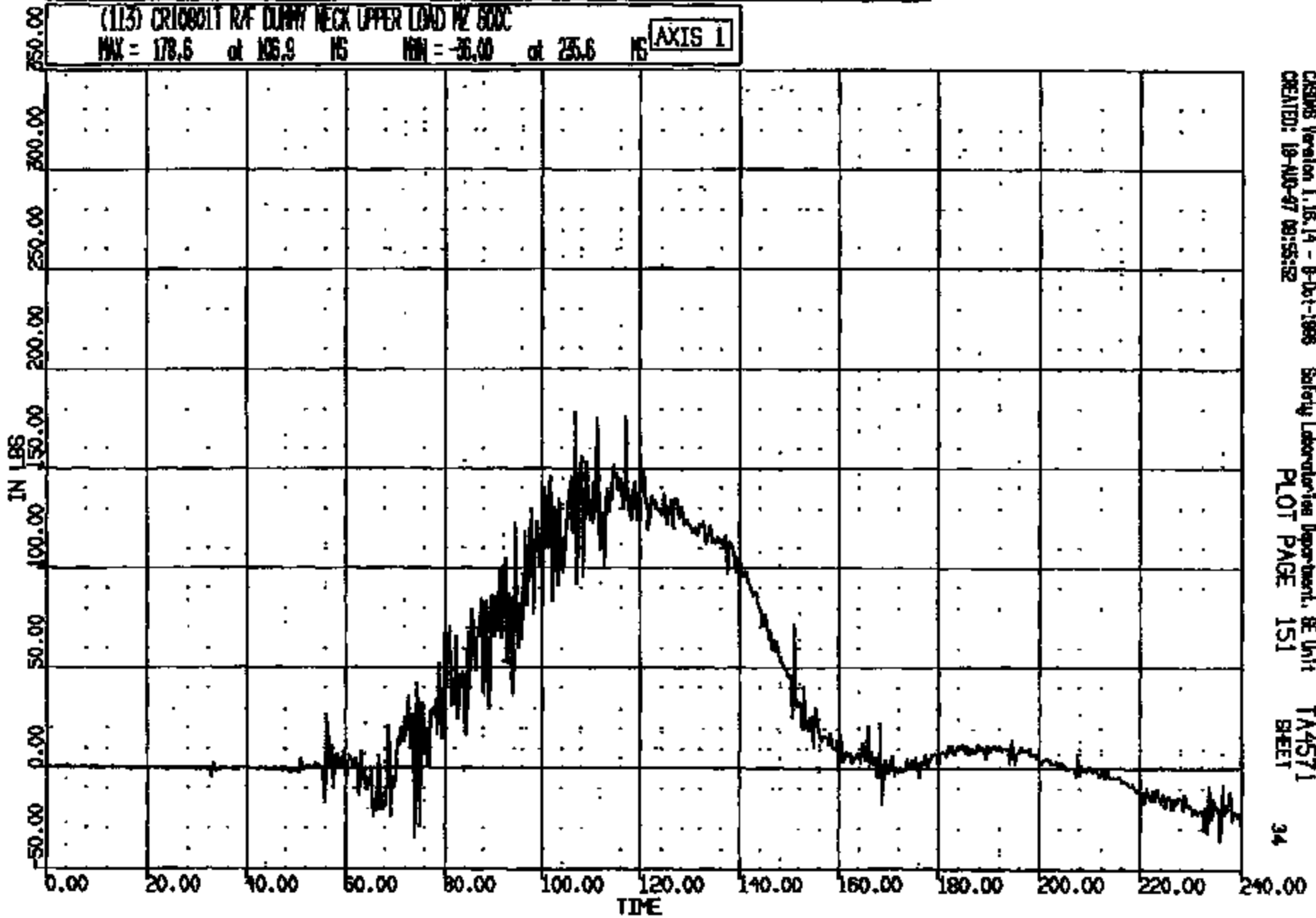
CRTS 0010801

CR #: 10801 TO: TA4571 DATE: 970818 09:18:04  
199X UNKNOWN

(113) CR10801T R/F DUMMY NECK UPPER LOAD Hz 500C

MAX = 178.6 at 105.9 MS MIN = -36.00 at 235.6 MS

AXIS 1



CASWS Version 1.16.14 - 8-Oct-1998  
CREATED: 18-AUG-97 09:55:52

Safety Laboratories Department, SE Unit  
PLOT PAGE 151

TA4571  
SHEET

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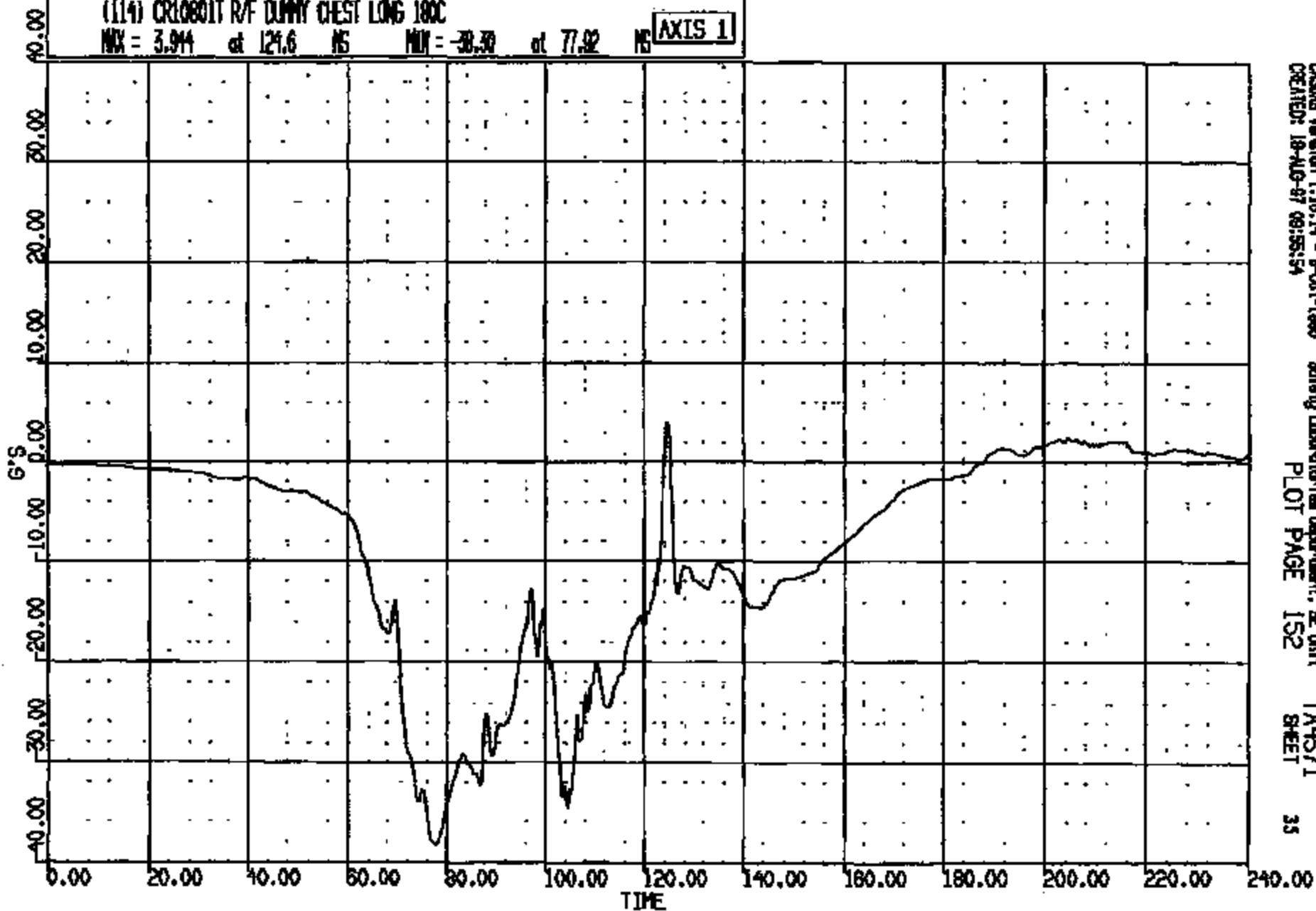
CRIS 0010801

CR R: 10801 TD: TA4571 DATE: 970918 09:18:04  
199X UNKNOWN

(114) CR10801T R/F DUNNY CHEST LONG 180C

MAX = 3.94 at 129.6 MS MIN = -38.30 at 77.92 MS

AXIS 1



CRSMB Version 1.18.14 - 8-Oct-1998  
CREATED: 18-AUG-97 09:55:54

Safety Laboratories Department, SE Unit  
PLOT PAGE 152

TA4571  
SHEET

35

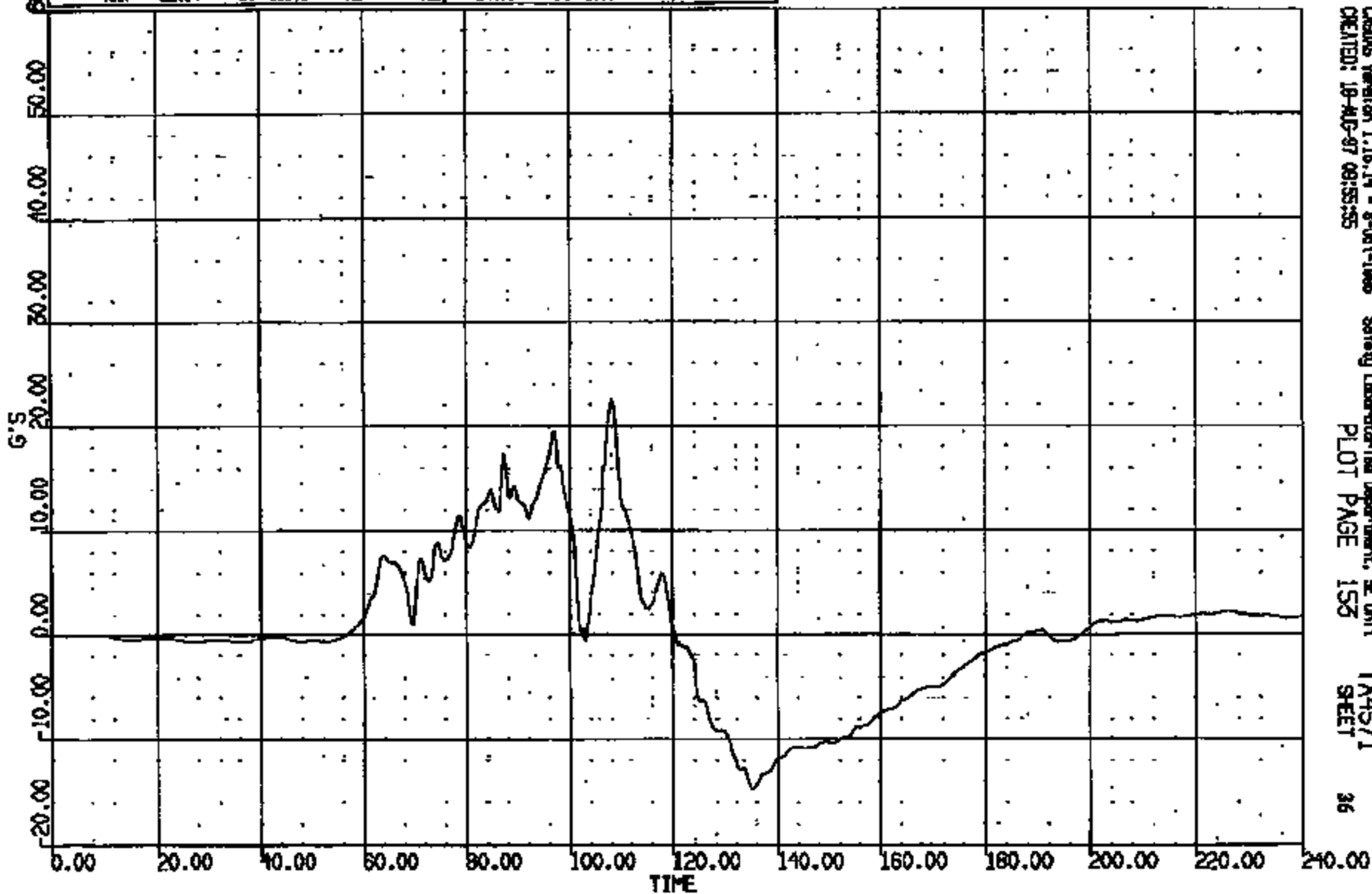
CRIS 0010801

CR R: 10801 TO: TA4571 DATE: 870818 09:18:07  
189X UNKNOWN

(115) CR10801T R/F DUMMY CHEST VERT 180C

MAX = 22.51 at 108.1 MG MIN = -14.71 at 135.4 MG

AXIS 1



CASUS Version 1.16.14 - 8-01-1986  
CREATED: 18-AUG-87 09:55:55

Safety Laboratories Department, SE Unit  
PLOT PAGE 155

TA4571  
SHEET

36

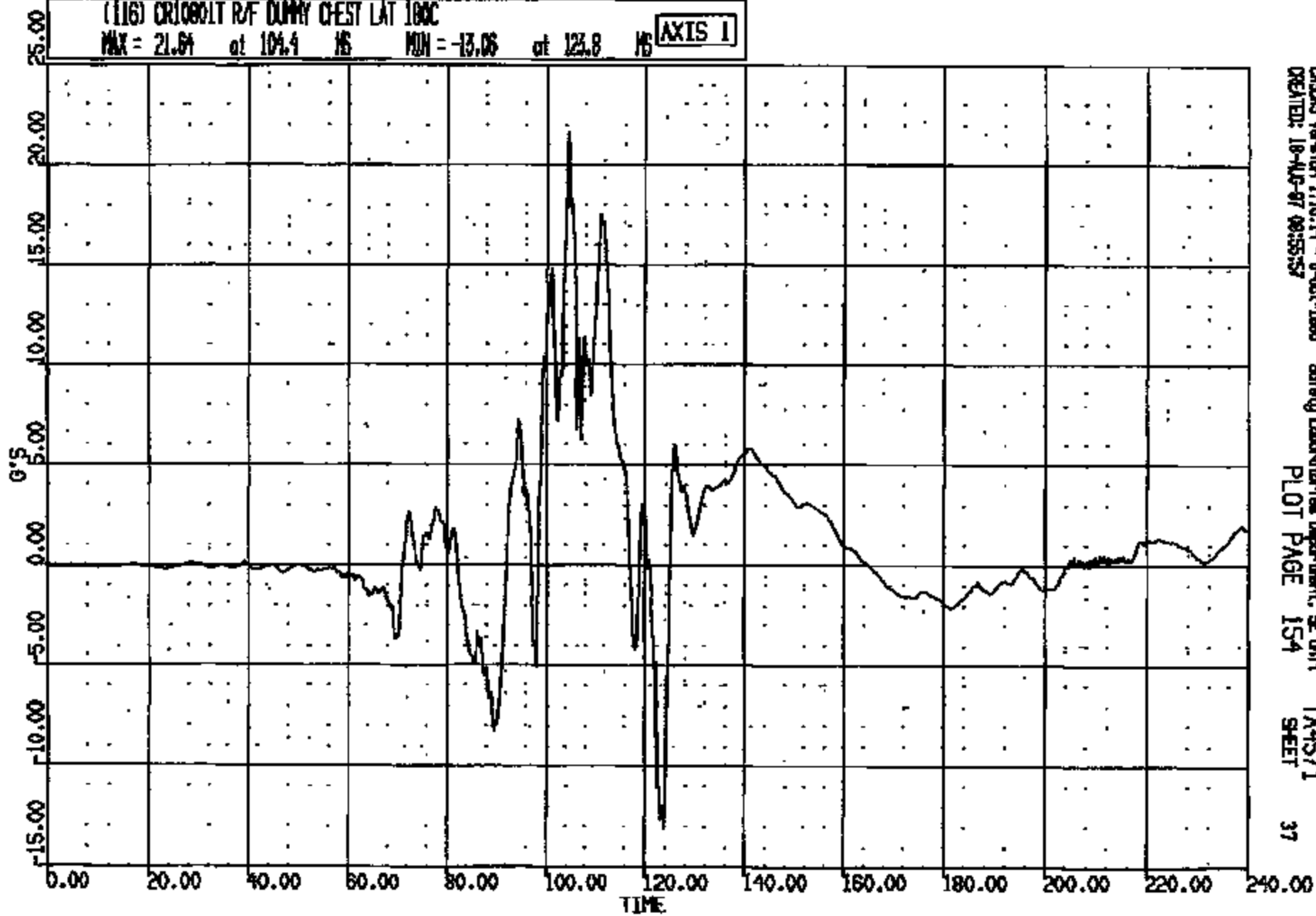
CRIS 0010801

CR R: 10801 TO: TA4571 DATE: 870818 09:18:04  
190X UNKNOWN

(116) CR1000LT R/F DUMMY CHEST LAT 100C

MAX = 21.04 at 104.4 MS MIN = -13.06 at 123.8 MS

AXIS 1



CADDS Version 1.16.14 - 8-Oct-1988  
CREATED: 18-SEP-87 09:55:57

Safety Laboratories Department, SE Unit  
PLOT PAGE 154

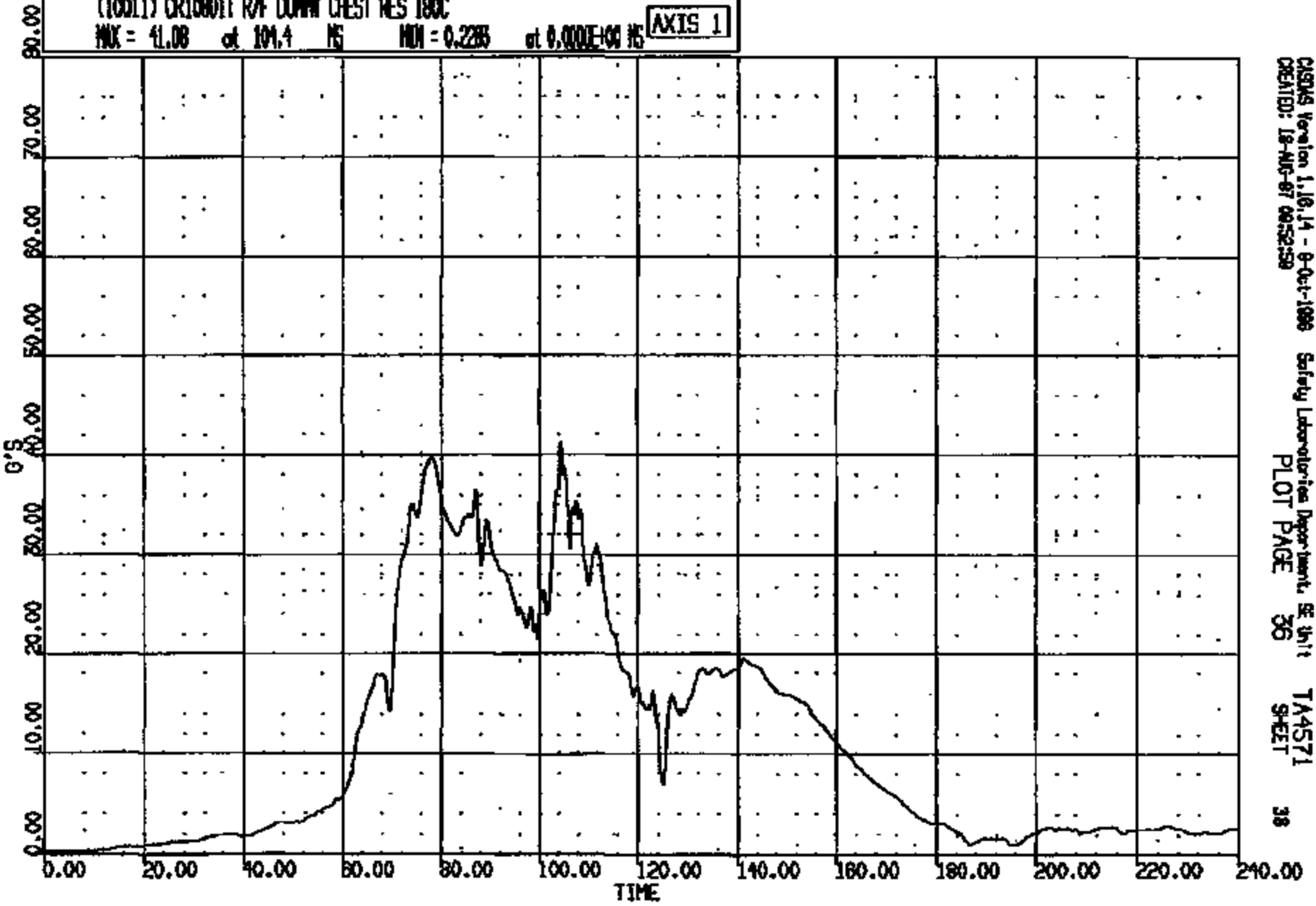
TA4571  
SHEET

37

CRTS 0010801

CR R: 10801 TC: TA4571 DATE: 870818 09:16:04  
189X UNKNOWN  
CUMDUR = 55.570 Duration time = 2.9895

(10011) CRIBBIT R/F DUNN CHEST RES 180C  
MAX = 41.08 at 101.4 MS MIN = 0.2285 at 0.000E+00 MS **AXIS 1**



CASMS Version 1.10.14 - 8-Oct-1988 Safety Laboratories Department, SE Unit  
CREATED: 18-AUG-87 09:52:59 PLOT PAGE 36 TA4571 SHEET 38

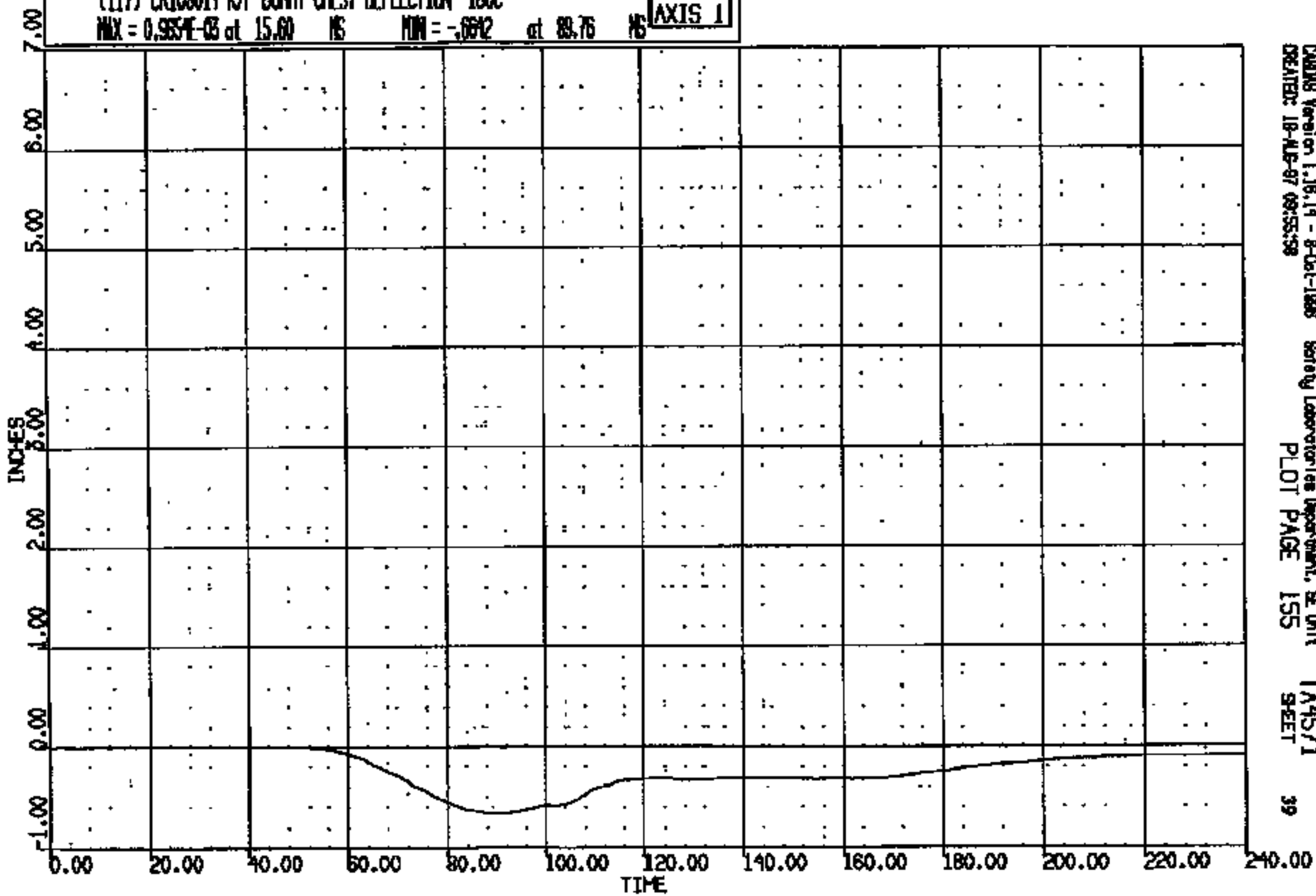
CRTS 0010801

CR R: 10801 TO: TA4571 DATE: 870818 08:18:04  
100X UNKNOWN

(117) CR100011 R/F DUMMY CHEST DEFLECTION 180C

MAX = 0.935E-03 at 15.00 MS MIN = -.0012 at 89.76 MS

AXIS 1



CRASH Version 1.18.14 - 8-Oct-1988  
CREATED: 18-AUG-87 08:55:58

Safety Laboratories Department, SE Unit  
PLOT PAGE 155

TA4571  
SHEET

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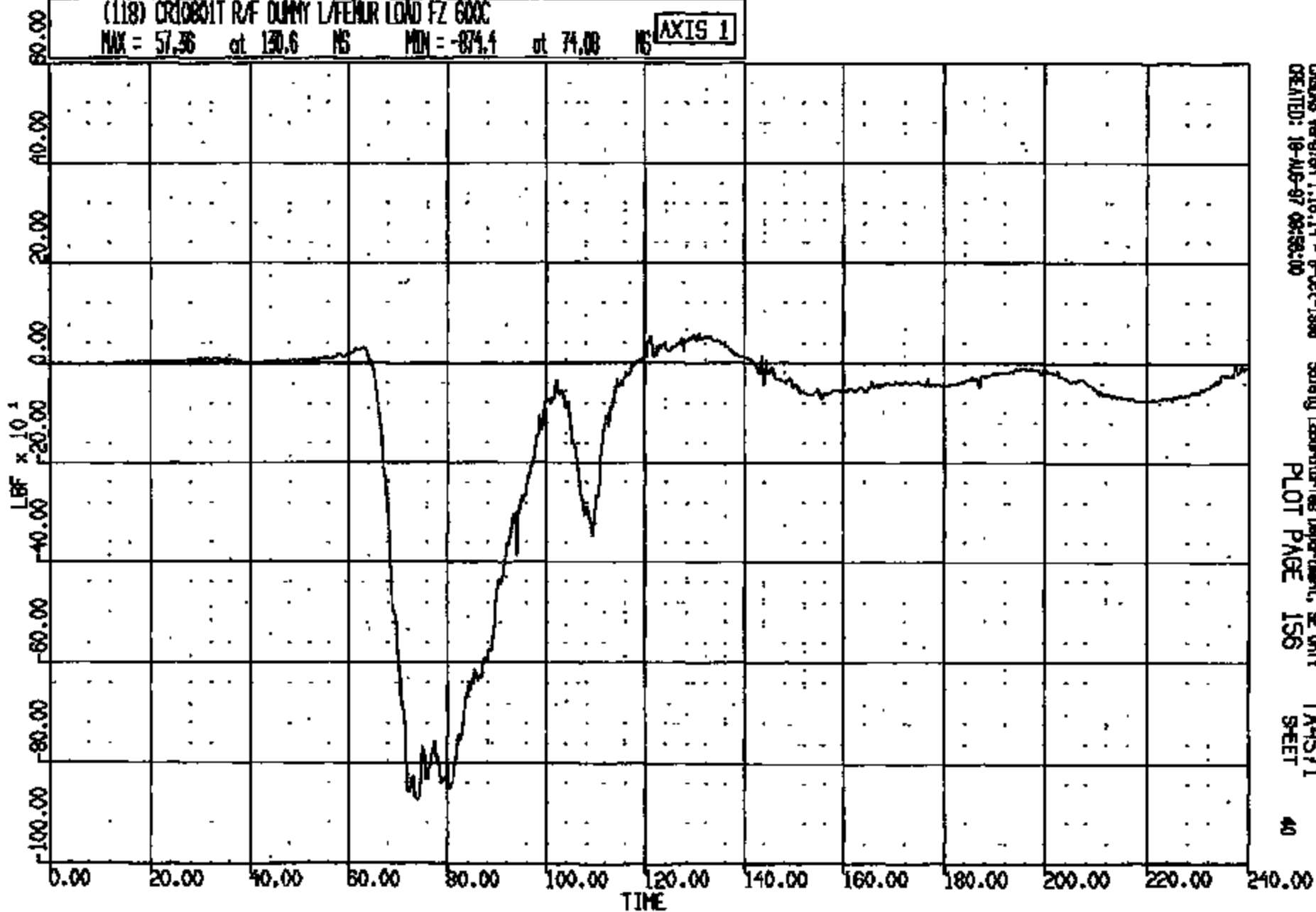
CRTS 0010801

CR R: 10801 TO: TA4571 DATE: 970818 09:16:04  
199X UNKNOWN

(118) CR10801T R/F DUMMY L/FEMUR LOAD FZ 600C

MAX = 57.36 at 130.6 MS MIN = -874.1 at 74.08 MS

AXIS 1



CRSAS Version 1.16.14 - 8-Oct-1996  
CREATED: 18-AUG-97 09:58:10

Safety Laboratories Department, SE Unit  
PLOT PAGE 156

TA4571  
SHEET

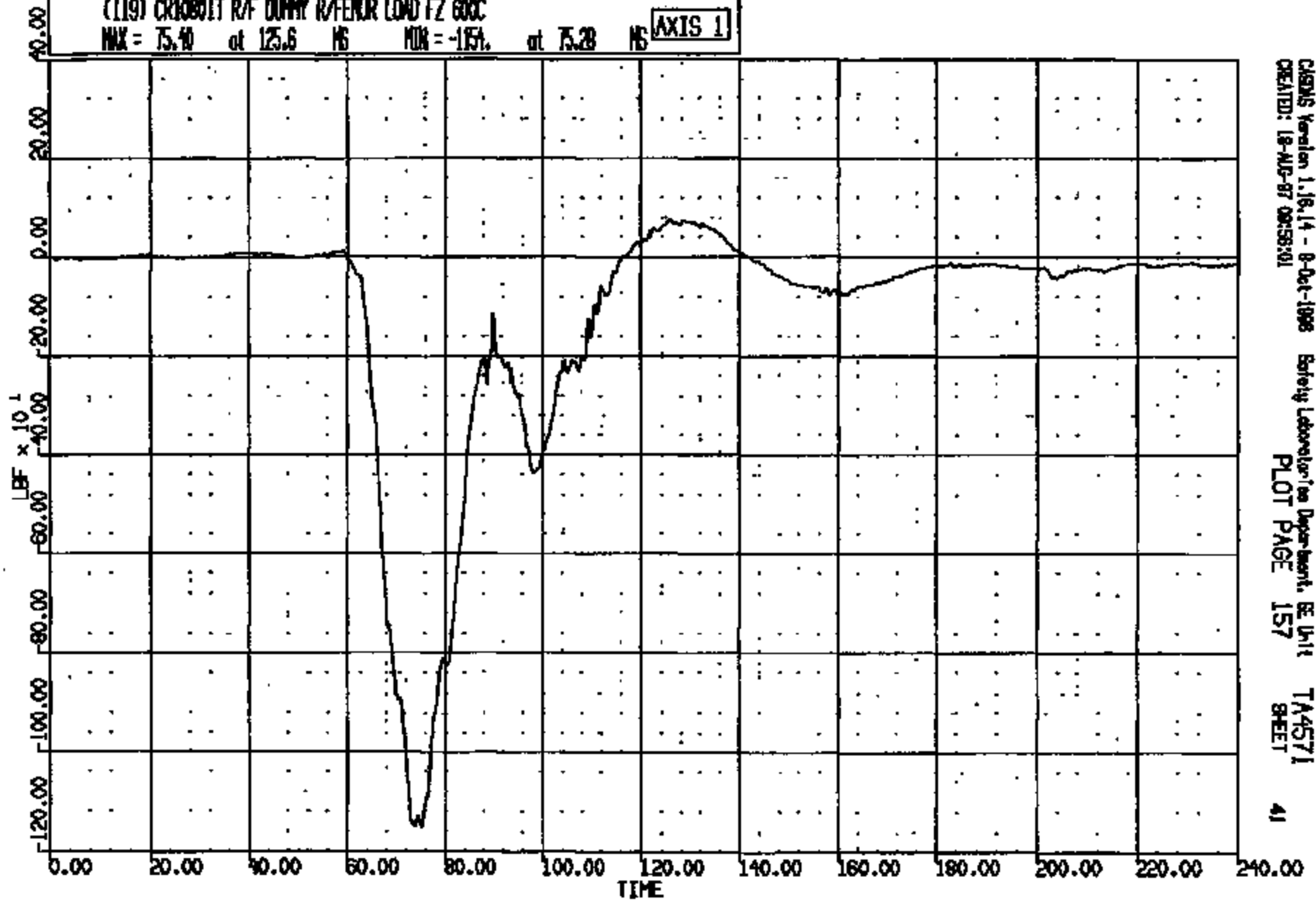
40

CRTS 0010801



CR R: 10801 TO: TA4571 DATE: 970818 09:18:04  
199X UNKNOWN

(119) CRIBBIT R/F DUMMY R/FENER LOAD FZ 600C  
MAX = 75.40 at 125.6 MS MIN = -115.1 at 75.28 MS **AXIS 1**

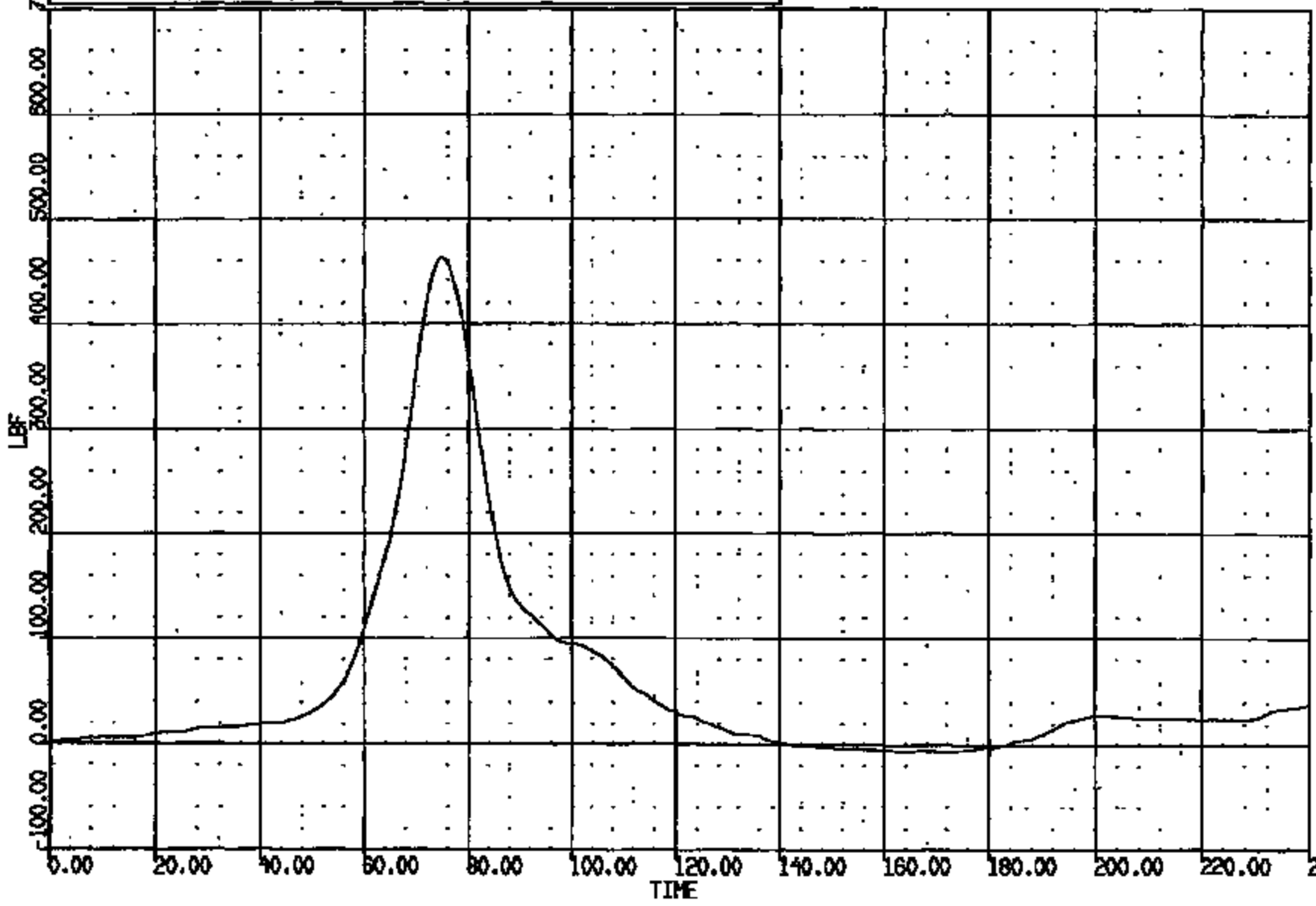


CRS Version 1.18.14 - 8-Oct-1998 Safety Laboratories Department, BE Unit TA4571  
CREATED: 18-MAR-97 09:58:01 PLOT PAGE 157 SHEET 41

CRTS 0010801

CR R: 10801 TD: TA4571 DATE: 970818 09:18:04  
189X UNKNOWN

(128) CR10801T R/F LAP BELT @ ANCHOR SOC  
MAX = 482.9 at 74.88 MS MIN = -6.819 at 171.3 MS **AXIS 1**



CASDS Version 1.16.14 - 8-Oct-1990 Safety Laboratories Department, BE Unit TA4571  
CREATED: 18-AUG-97 08:55:07 PLOT PAGE 161 SHEET 42

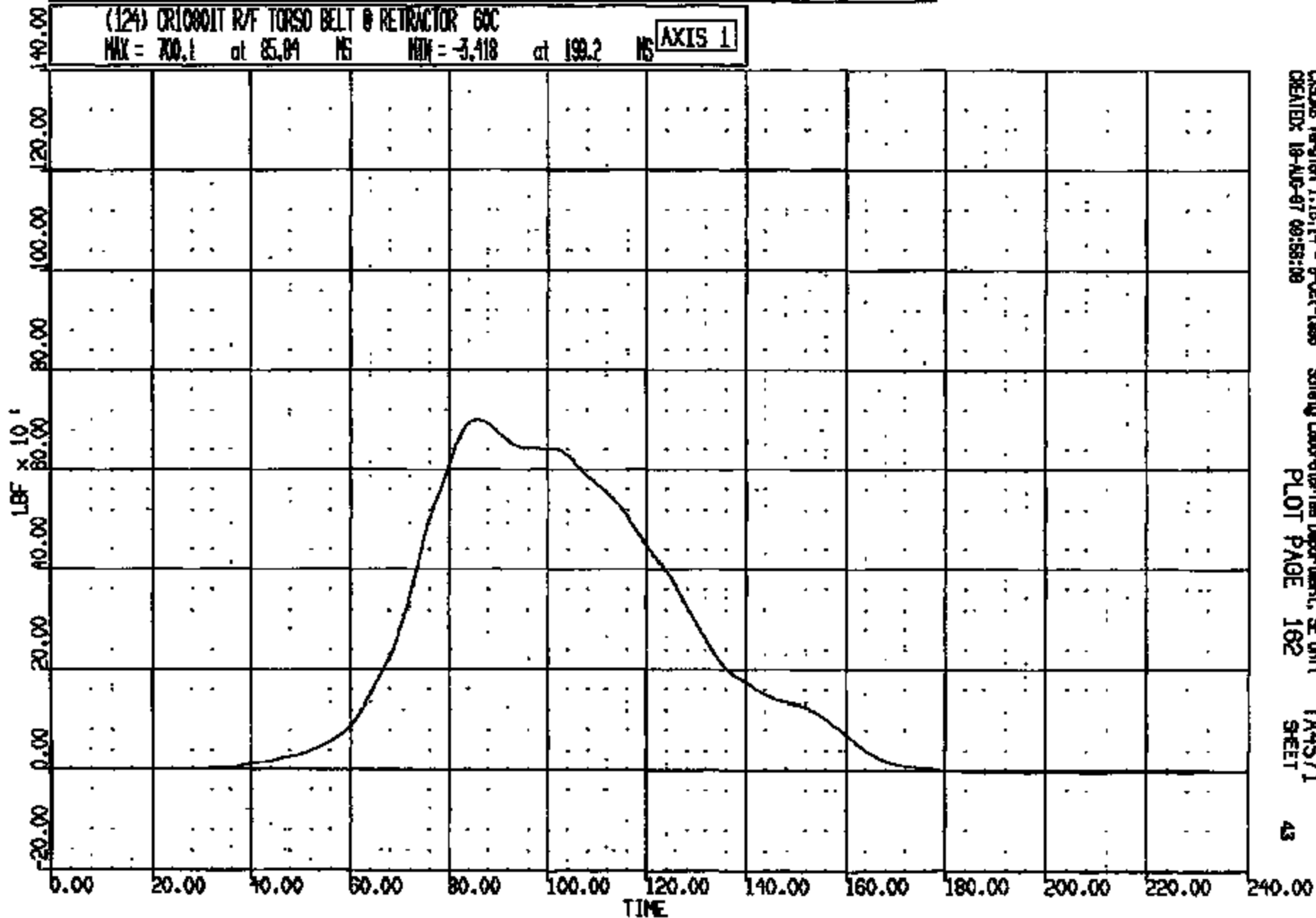
CRTS 0010801

CR R: 10801 TO: TA4571 DATE: 970818 09:16:04  
199X UNKNOWN

(124) CR1000IT R/F TORSO BELT & RETRACTOR 60C

MAX = 700.1 at 85.84 MS MIN = -3.418 at 199.2 MS

AXIS 1



CASME Version 1.16.14 - 9-Oct-1998  
CREATED: 18-AUG-97 09:58:08

Safety Laboratories Department, SE Unit  
PLOT PAGE 162

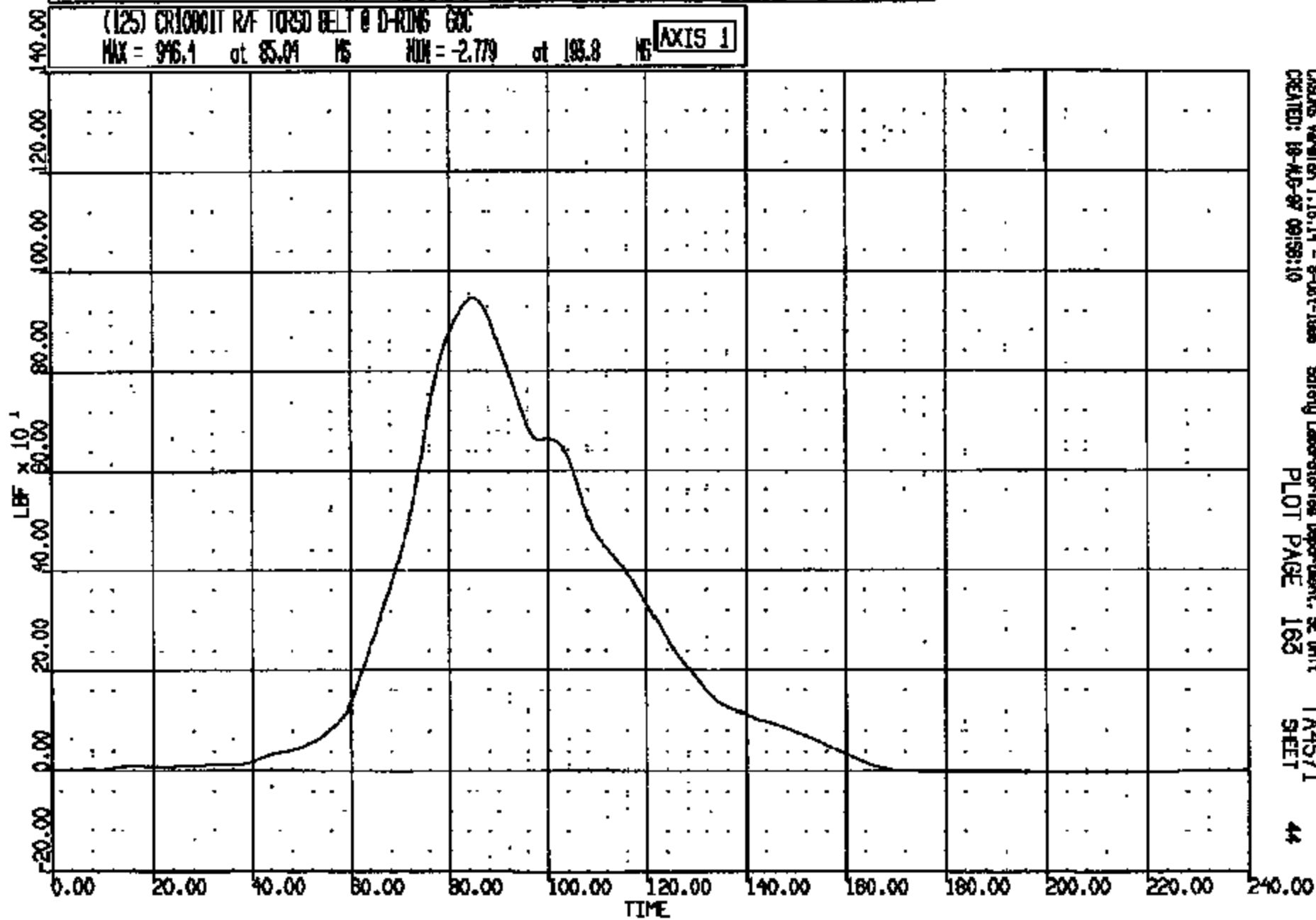
TA4571  
SHEET

43

CRTS 0010801

CR #: 10801 TO: TA4571 DATE: 970818 09:18:04  
198X UNKNOWN

(125) CR100011 R/F TORSO BELT @ D-RING 60C  
MAX = 946.1 at 85.04 MS MIN = -2.779 at 198.8 MS **AXIS 1**



CASDS Version 1.16.14 - 8-Oct-1988  
CREATED: 18-AUG-97 09:15:10

Safety Laboratories Department, SE Unit  
PLOT PAGE 163

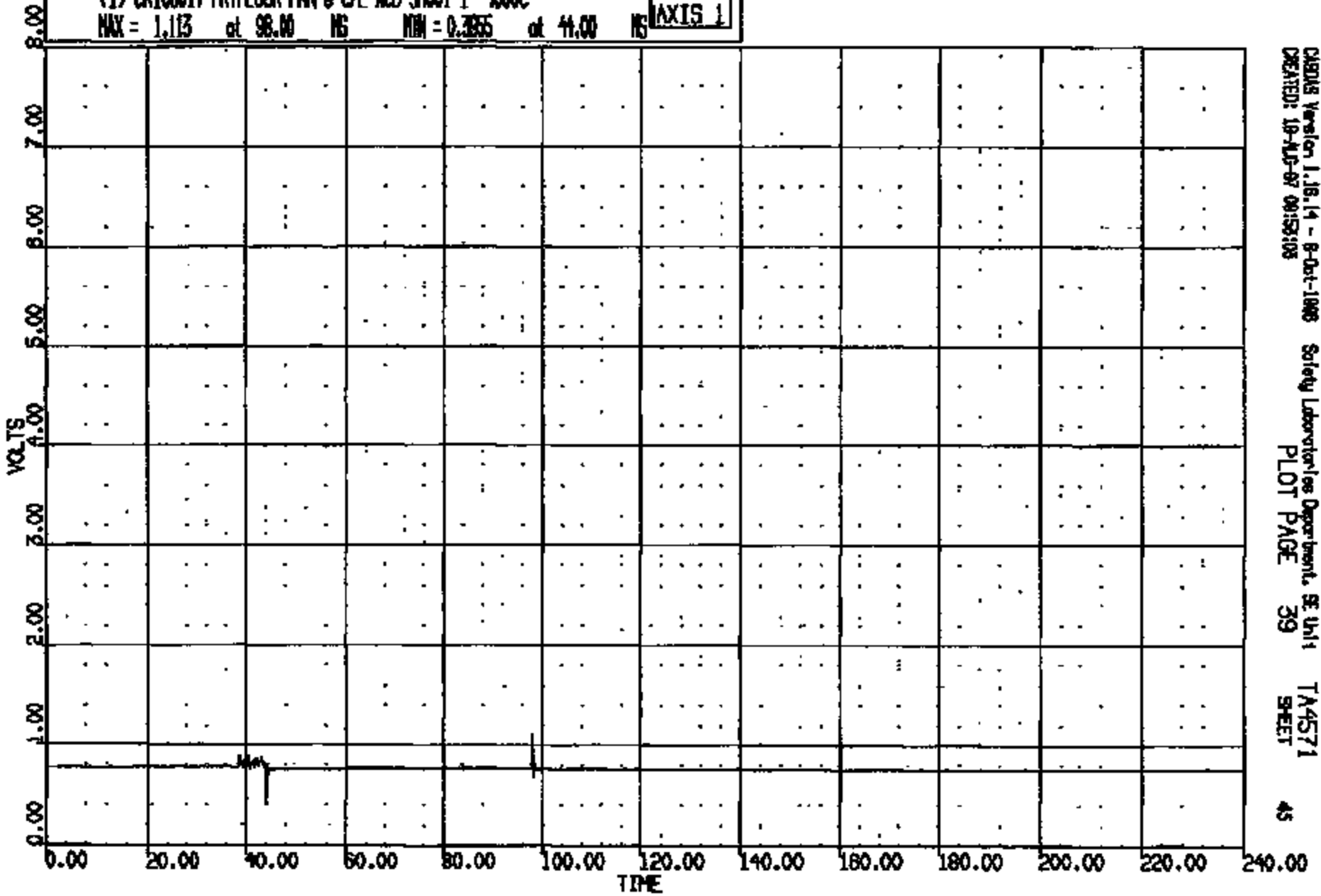
TA4571  
SHEET

44

CRTS 0010801

CR R: 10801 TO: TA4571 DATE: 970818 08:16:04  
199X UNKNOWN

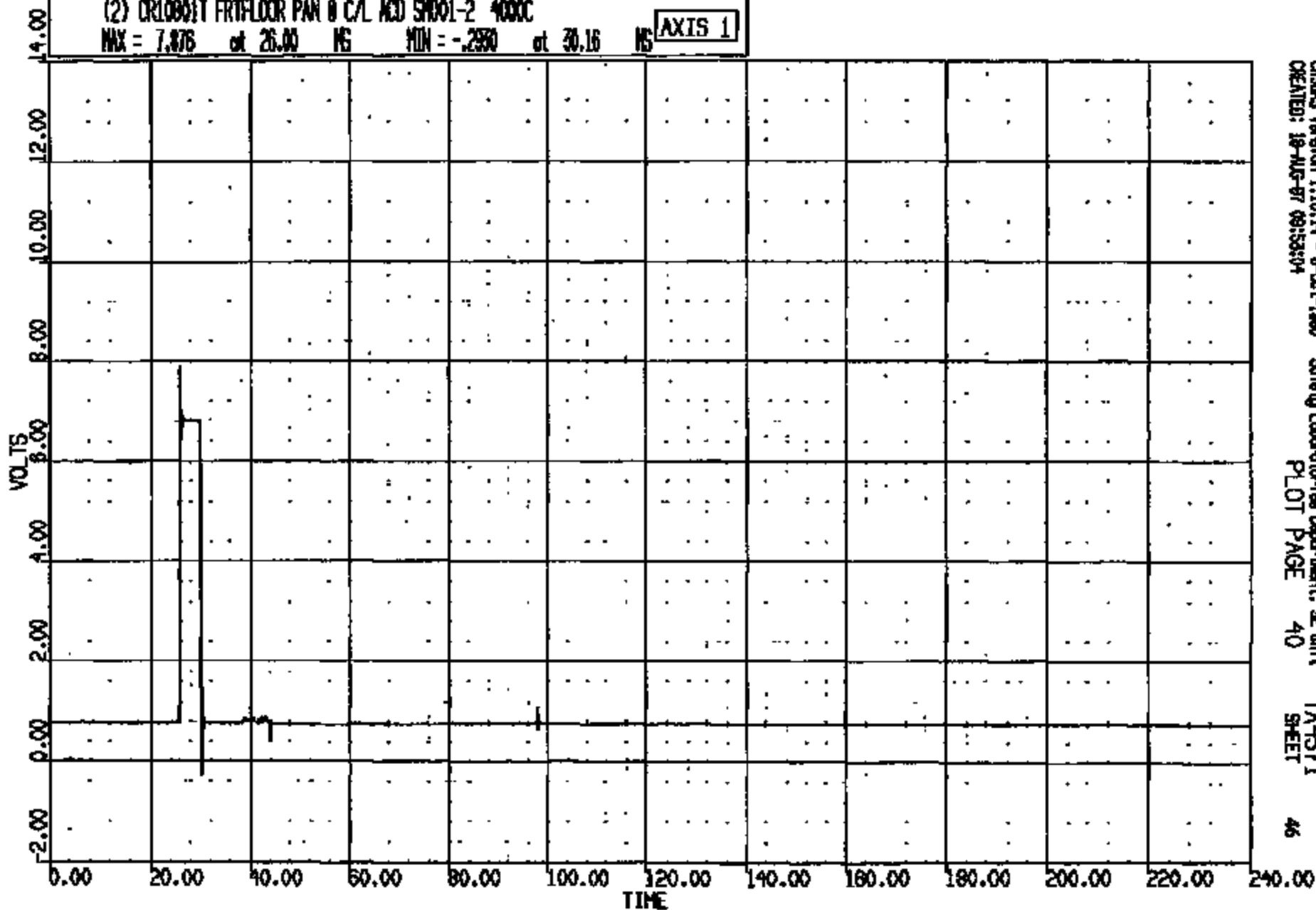
(1) CR1000IT FRYFLOOR PAN @ C/L ACD 59001-1 400C  
MAX = 1.113 at 98.00 NS MIN = 0.3955 at 44.00 NS **AXIS 1**



CR #: 10801 TO: TA4571 DATE: 870818 08:16:04  
100X UNKNOWN

(2) CR10001 FRTFLOR PAN @ C/L ACD SMOO1-2 4000C  
MAX = 7.876 at 26.00 NS MIN = -.2990 at 30.16 NS

AXIS 1

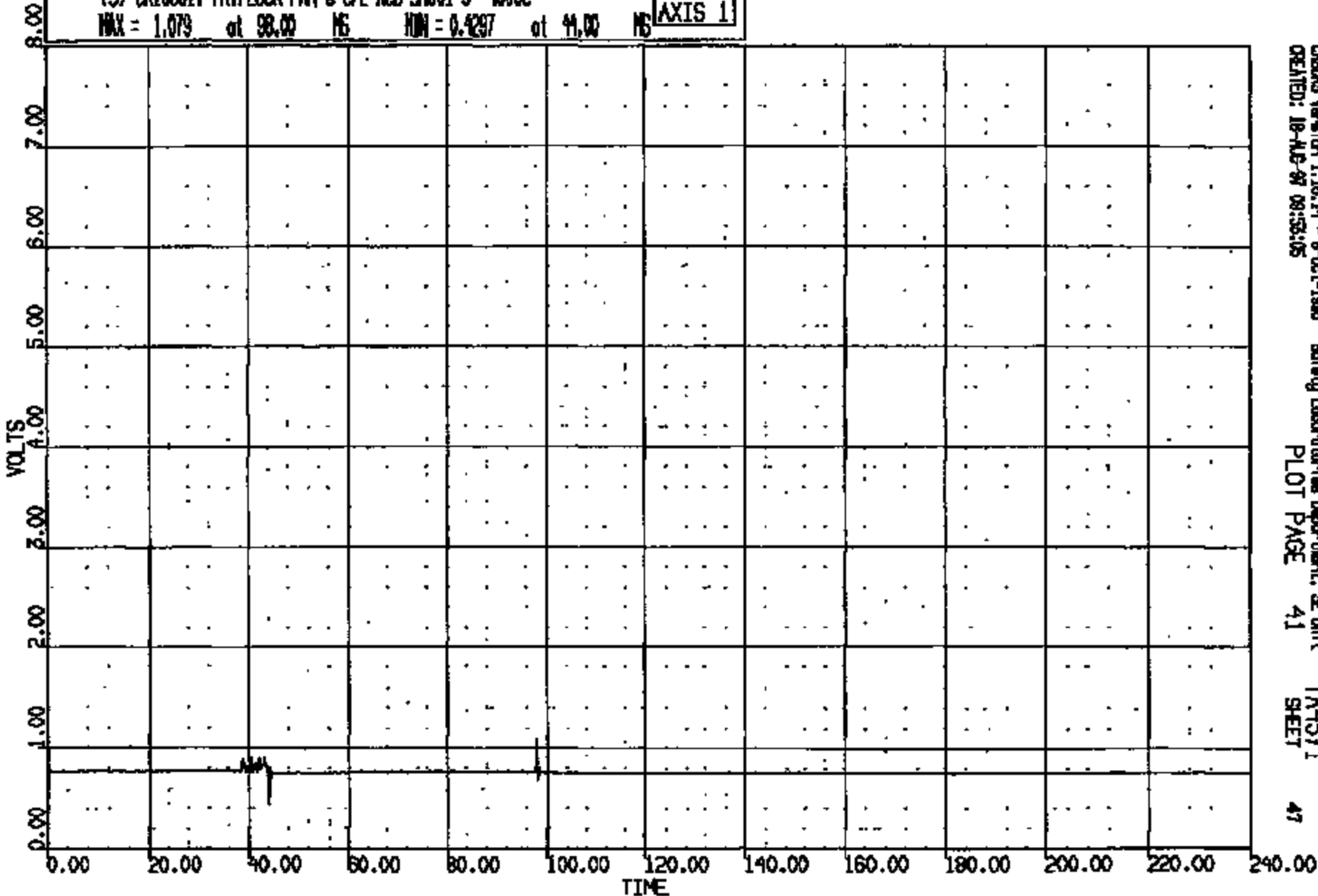


CRIMS Version 1.16.14 - 8-Oct-1988 Safety Laboratories Department, SE Unit TA4571  
CREATED: 18-AUG-87 08:53:14 PLOT PAGE 40 SHEET 46

CRIS 0010801

CR R: 10801 TO: TA4571 DATE: 870818 09:15:04  
199X UNKNOWN

(3) CR10801 FRIFLOOR PAN @ CAL. ACID SMOKE-3 4000C  
MAX = 1.079 at 98.00 NS MIN = 0.4297 at 99.00 NS **AXIS 1**

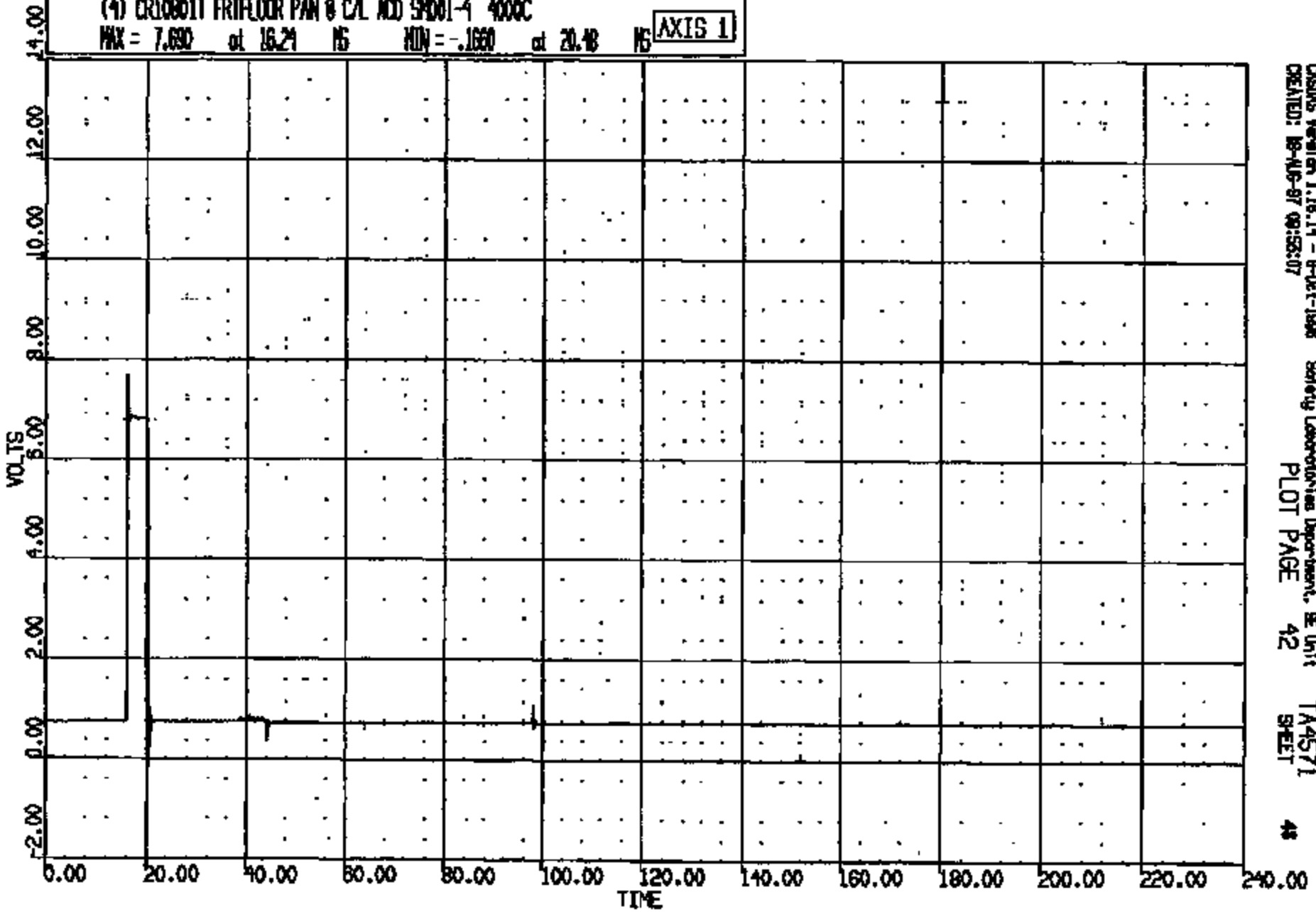


CRS Version 1.18.14 - 8-Oct-1988 Safety Laboratories Department, SE Unit  
CREATED: 18-AUG-87 09:55:05 PLOT PAGE 41 TA4571 SHEET 47

CRIS 0010801

CR R: 10801 TO: TA4571 DATE: 070816 09:16:04  
199X UNKNOWN

(4) CR10801T FRITFLOOR PAN @ C/L ACID SP001-4 4000C  
MAX = 7.690 at 16.29 NS MIN = -.1660 at 20.48 NS **AXIS 1**



CDSMS Version 1.16.14 - 8-Oct-1998  
CREATED: 8-16-97 09:53:07

Safety Laboratories Department, SE Unit  
PLOT PAGE 42

TA4571  
SHEET

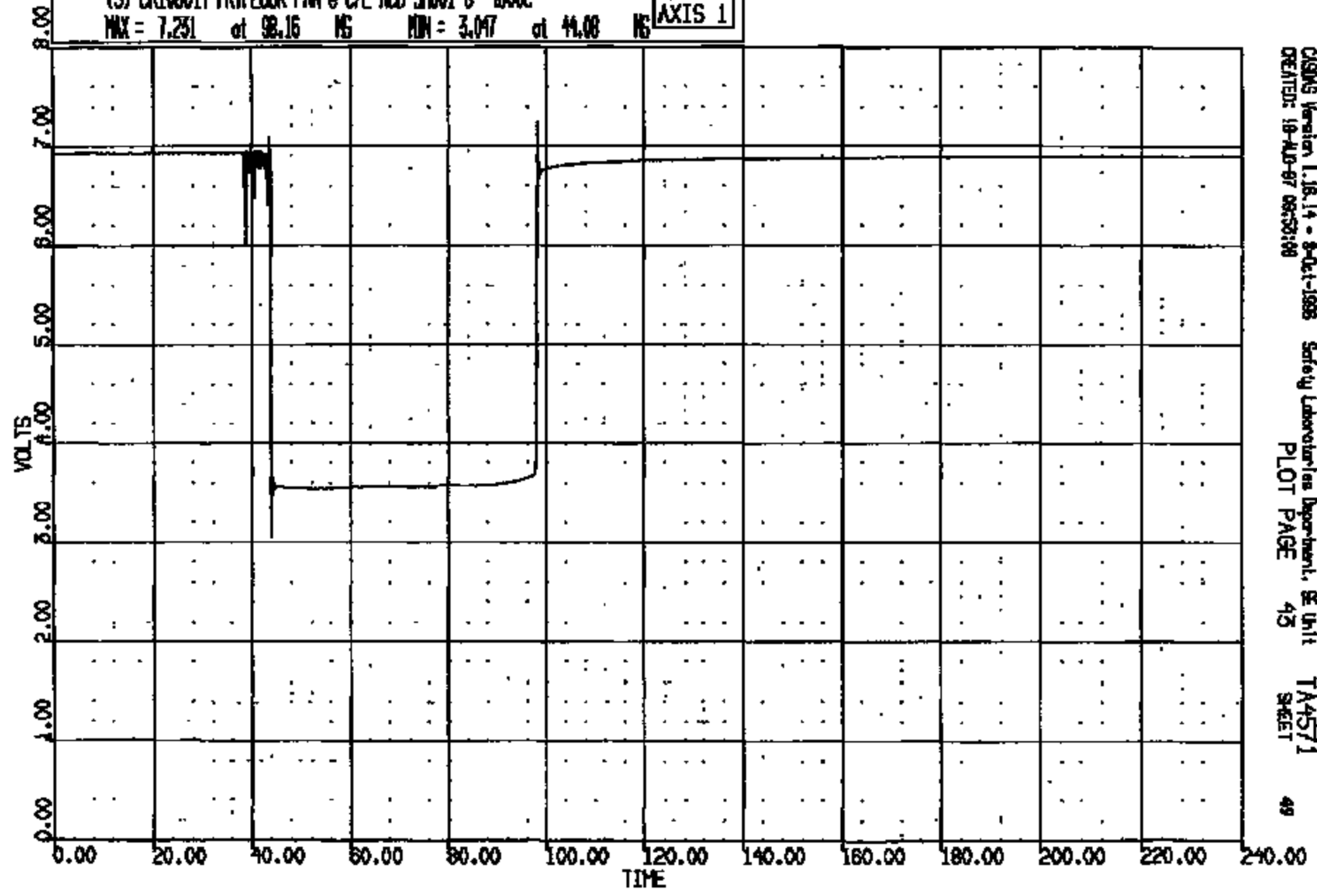
48

CRTS 0010801



CR R: 10801 TO: TA4571 DATE: 970818 09:16:04  
198X UNKNOWN

(5) CR10001T FRIFLOOR PMN @ CAL. ACID 50001-8 4000C  
MAX = 7.231 at 98.16 NS MIN = 3.047 at 44.08 NS **AXIS 1**



CISMS Version 1.18.14 - 8-Oct-1988 Safety Laboratories Department, SE Unit TA4571  
CREATED: 18-AUG-97 08:53:00 PLOT PAGE 43 SHEET 49

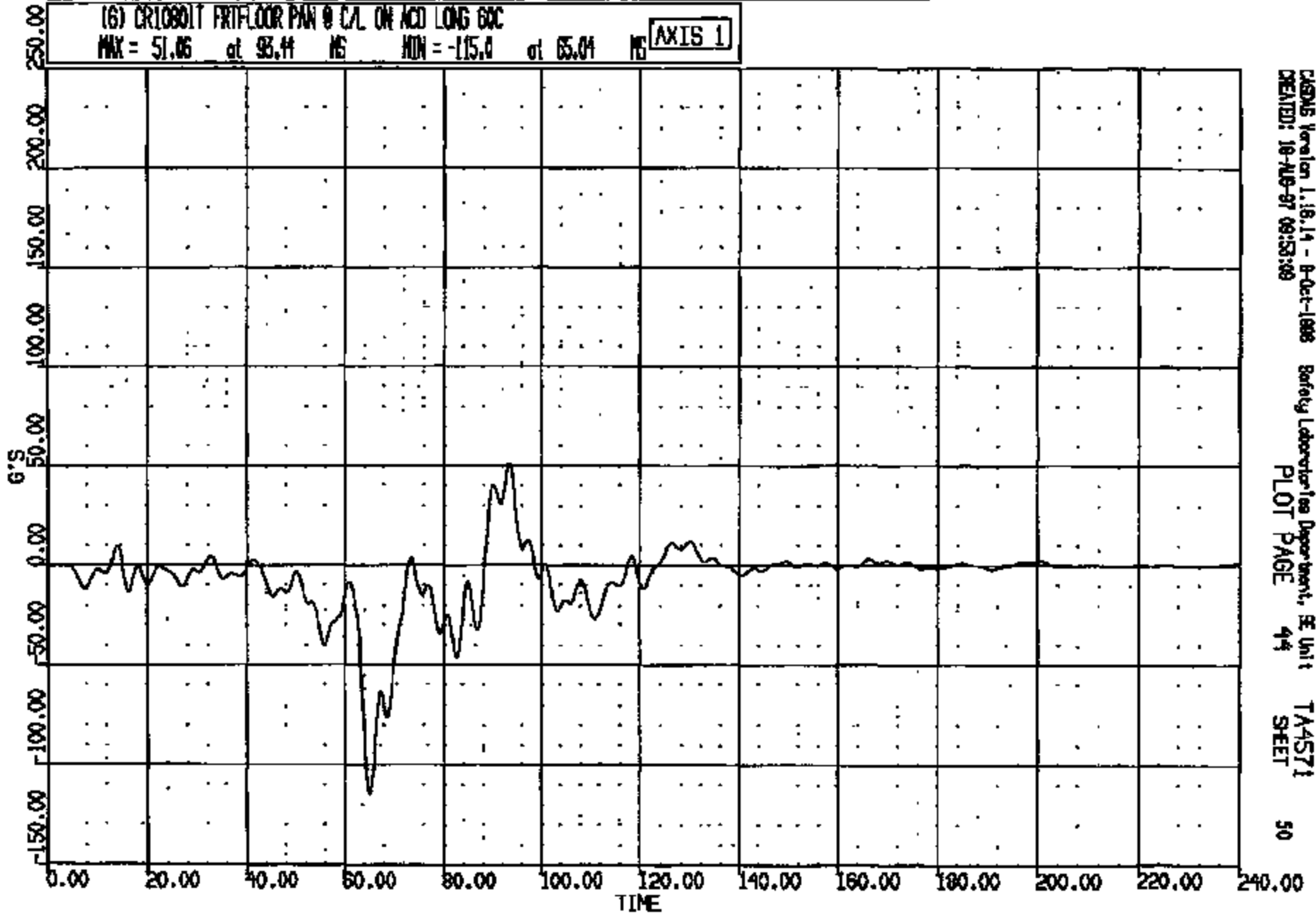
CRTS 0010801

CR R: 10801 TO: TA4571 DATE: 970818 08:16:04  
199X UNKNOWN

(6) CR10801 FRTFLOOR PAN @ C/L ON ACD LONG 60C

MAX = 51.06 at 93.44 MS MIN = -115.0 at 65.04 MS

AXIS 1



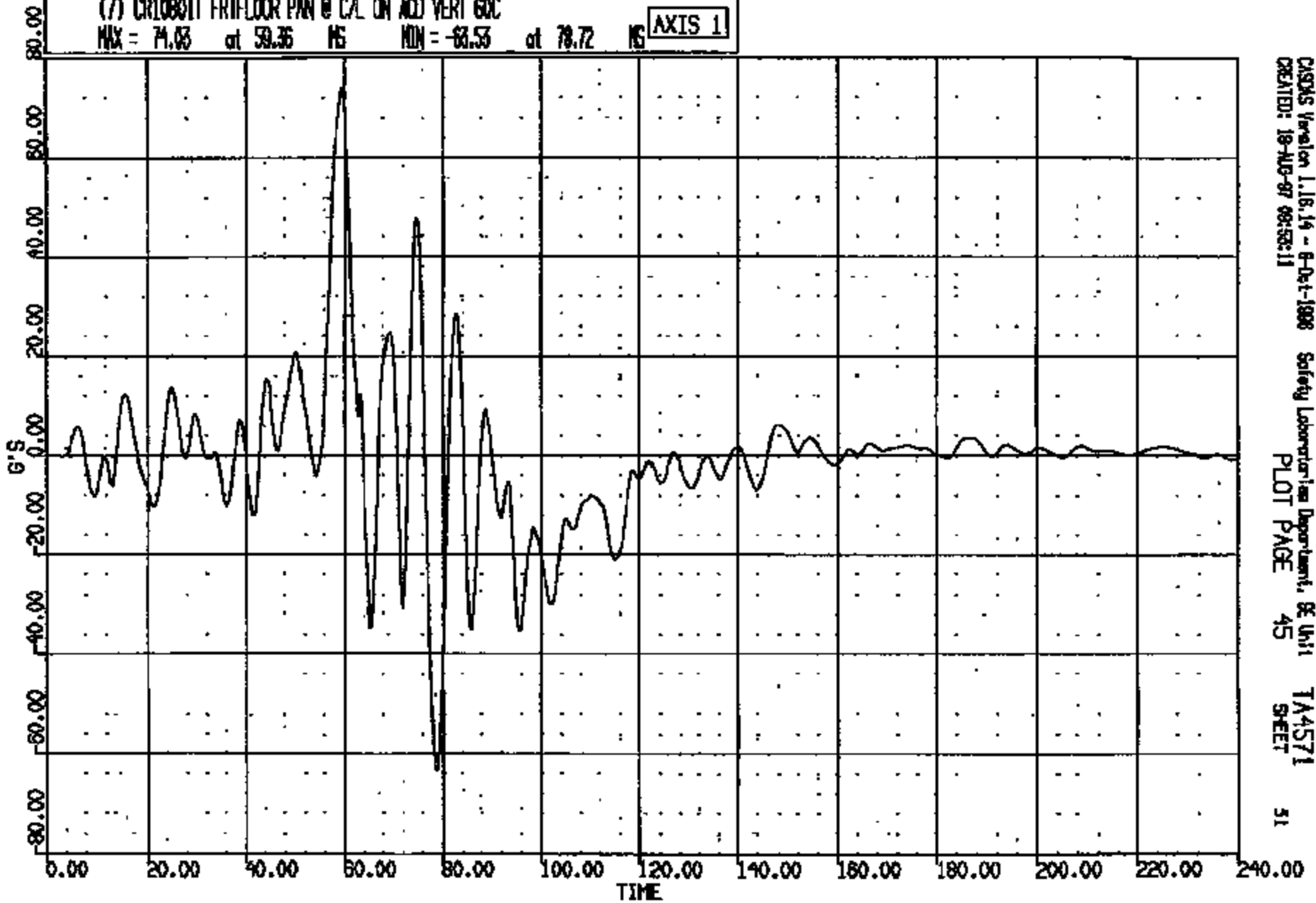
CRTS 0010801

CR #: 10801 TO: TA4571 DATE: 870818 09:18:04  
189X UNKNOWN

(7) CR10801 FRIFLOOR PAN @ CAL ON ACC VERT 60C

MAX = 71.83 at 59.36 MS MIN = -83.53 at 78.72 MS

AXIS 1



CASYS Version 1.16.14 - 8-Oct-1988  
CREATED: 18-AUG-87 09:58:11

Safety Laboratories Department, GE Unit  
PLOT PAGE 45

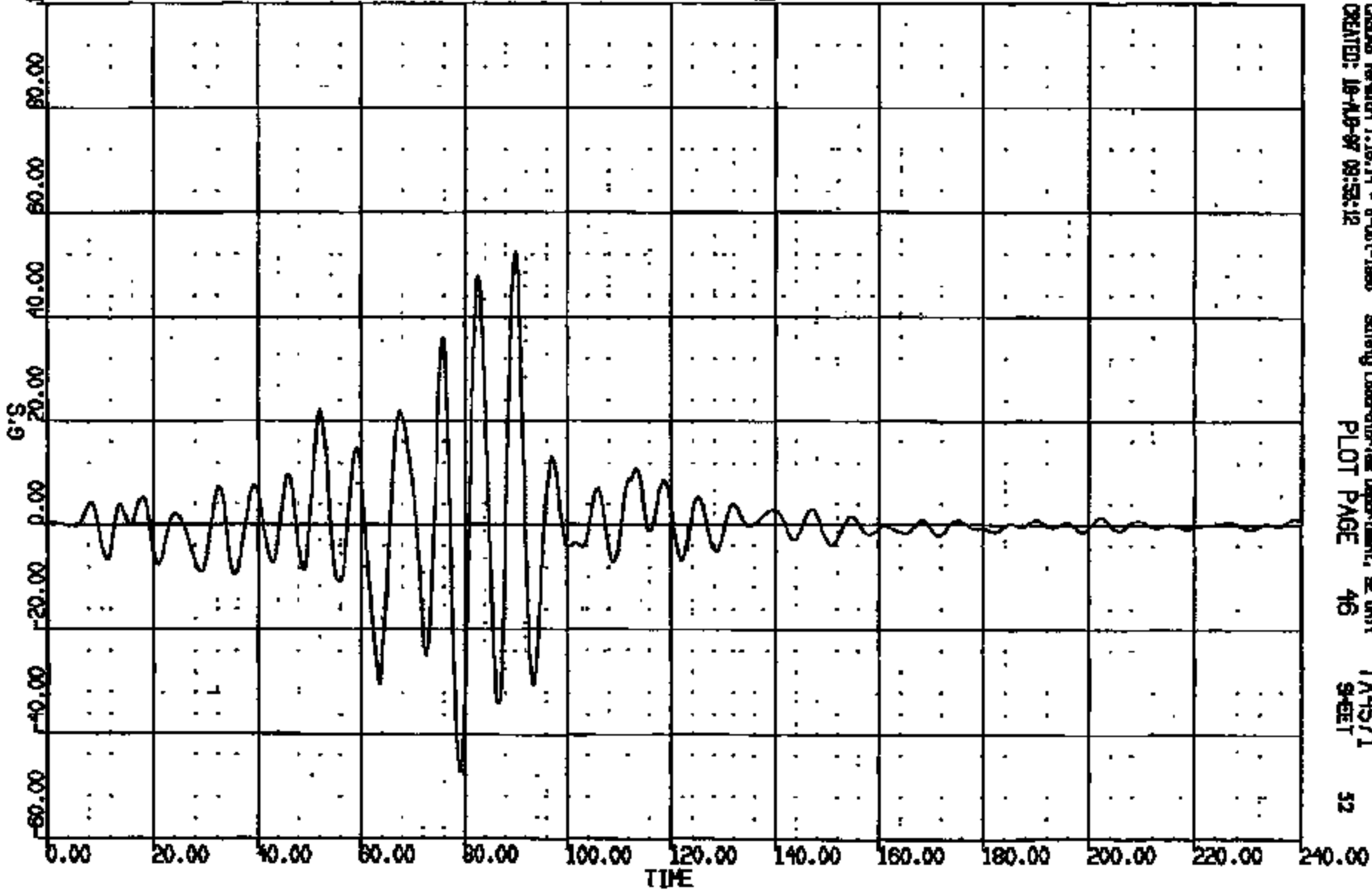
TA4571  
SHEET

51

CRTS 0010801

CR R: 10801 TO: TA4571 DATE: 870818 09:18:04  
189X UNKNOWN

(8) CR10801T FRITFLOOR PAN @ C/L ON ACD LAT 60C  
MAX = 52.21 at 89.92 16 MIN = -47.25 at 79.04 16 **AXIS 1**

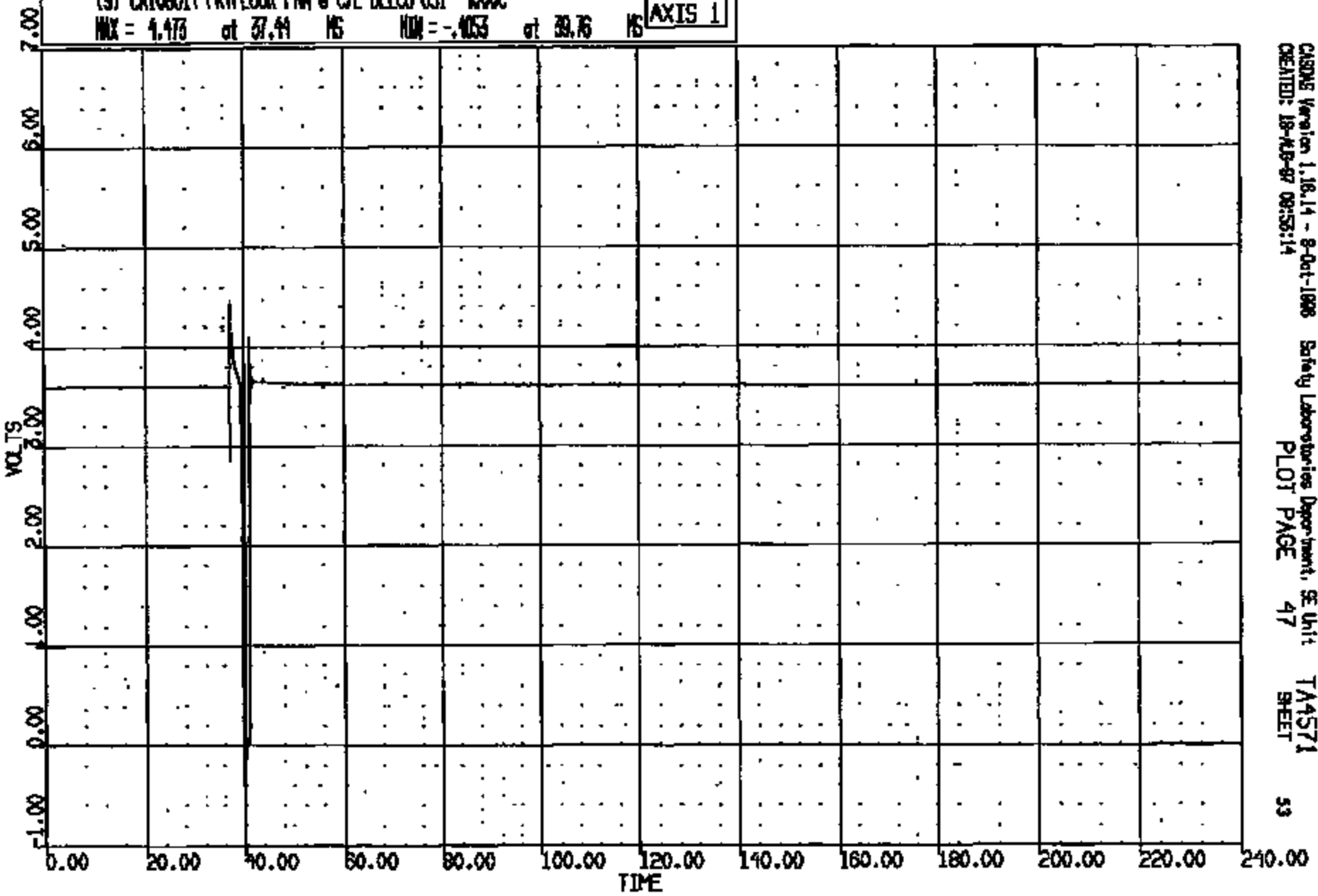


CADMS Version 1.16.14 - 8-Oct-1988 Safety Laboratories Department, E Unit TA4571  
CREATED: 18-AUG-87 09:58:12 PLOT PAGE 46 SHEET 52

CRTS 0010801

CR R: 10801 TO: TA4571 DATE: 970818 09:18:04  
199X UNKNOWN

(9) CR10801T FRTFLOOR PNM @ C/L DELCO US1 4000C  
MAX = 4.473 at 37.44 MS MIN = -.4053 at 39.76 MS **AXIS 1**

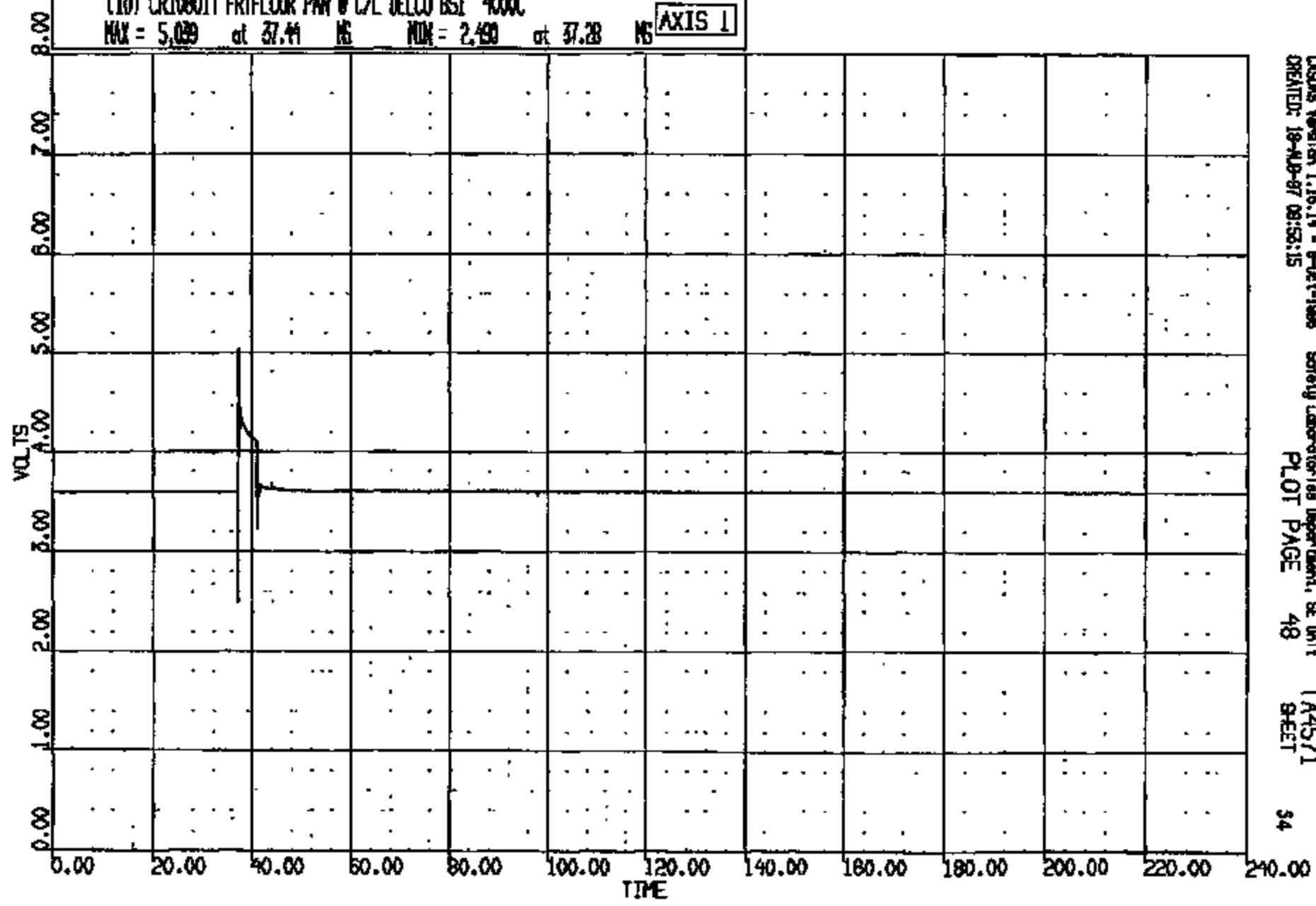


CARDAS Version 1.16.14 - 8-Oct-1998 Safety Laboratories Department, SE Unit TA4571  
CREATED: 18-SEP-97 09:53:14 PLOT PAGE 47 SHEET 53

CRTS 0010801

CR R: 10801 TO: TA4571 DATE: 870818 09:15:04  
100X UNKNOWN

(10) CR10801T FRIFLOOR PAV @ C/L DELCO BSE 4000C  
MAX = 5.039 at 37.41 NS MIN = 2.490 at 37.28 NS **AXIS 1**



CRIS 0010801

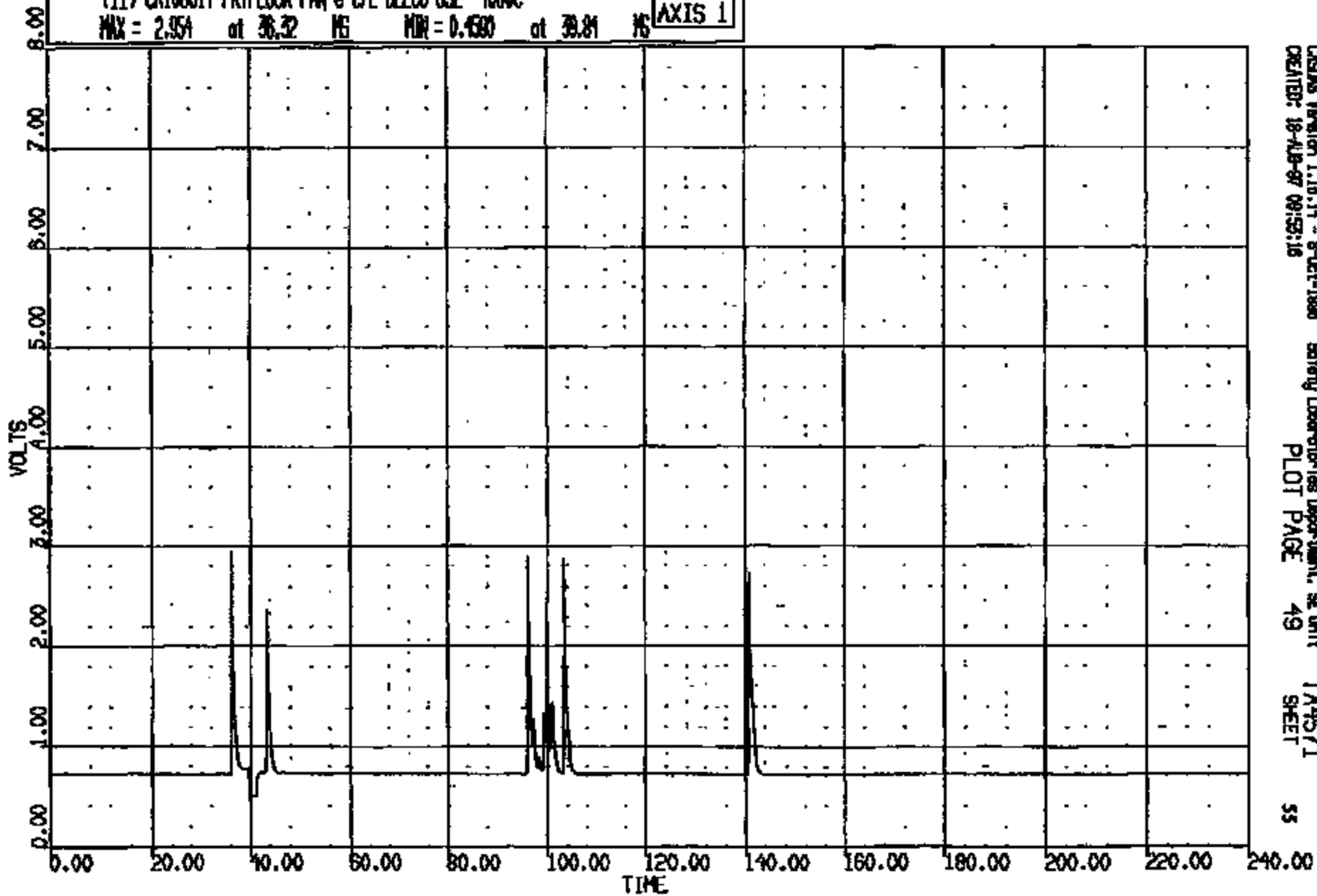
CRSUS Version 1.16.14 - 8-Oct-1988 Safety Laboratories Department, SE Unit TA4571  
CREATED: 18-AUG-87 09:53:15 PLOT PAGE 48 SHEET 54

CR N: 10801 TO: TA4571 DATE: 870918 09:18:04  
198X UNKNOWN

(11) CR10801T FRIFLOOR PAN @ C/L DELCO US2 4000C

MAX = 2.354 at 36.32 MS MIN = 0.4580 at 99.81 MS

AXIS 1

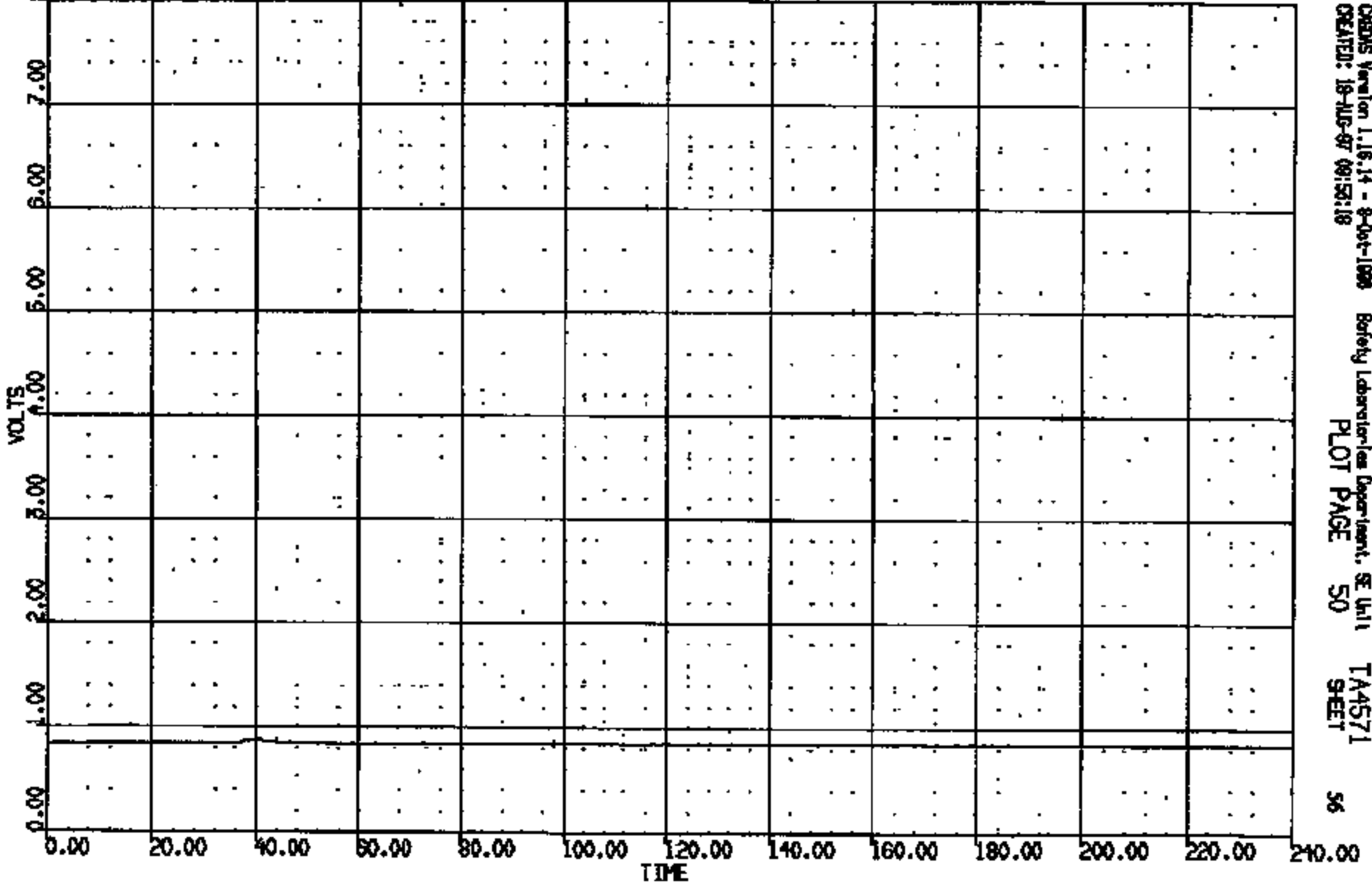


CRIMS Version 1.16.14 - 8-Oct-1988 Safety Laboratories Department, SE Unit TA4571  
CREATED: 18-APR-87 09:53:16 PLOT PAGE 49 SHEET 55

CRIS 0010801

CR R: 10601 TO: TA4571 DATE: 870818 09:18:04  
100X UNKNOWN

(12) CR10801T FRIFLOOR PAN @ C/L DELCO BS2 4000C  
MAX = 0.8789 at 40.64 NS MIN = 0.8253 at 98.00 NS **AXIS 1**



CRITS 0010601

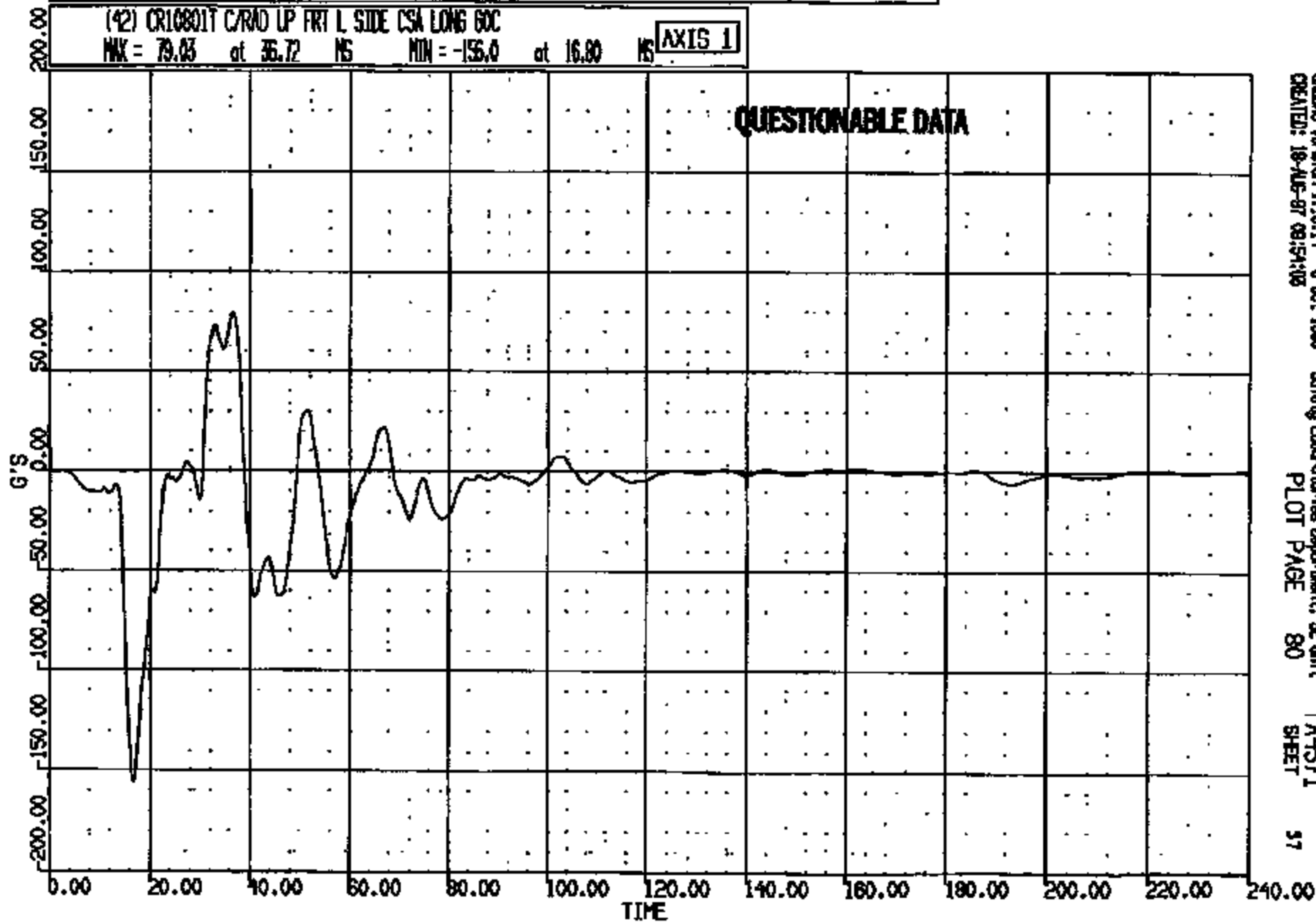
CRDS Version 1.16.14 - 8-Oct-1988    Safety Laboratories Department, SE Unit    TA4571  
CREATED: 18-AUG-87 09:53:18    PLOT PAGE 50    SHEET 56



CR R: 10801 TO: TA4571 DATE: 970818 09:18:04  
199X UNKNOWN

(42) CR10801T C/RAD LP FRT L SIDE CSA LONG 60C

MAX = 79.03 at 36.72 NS MIN = -155.0 at 16.80 NS **AXIS 1**

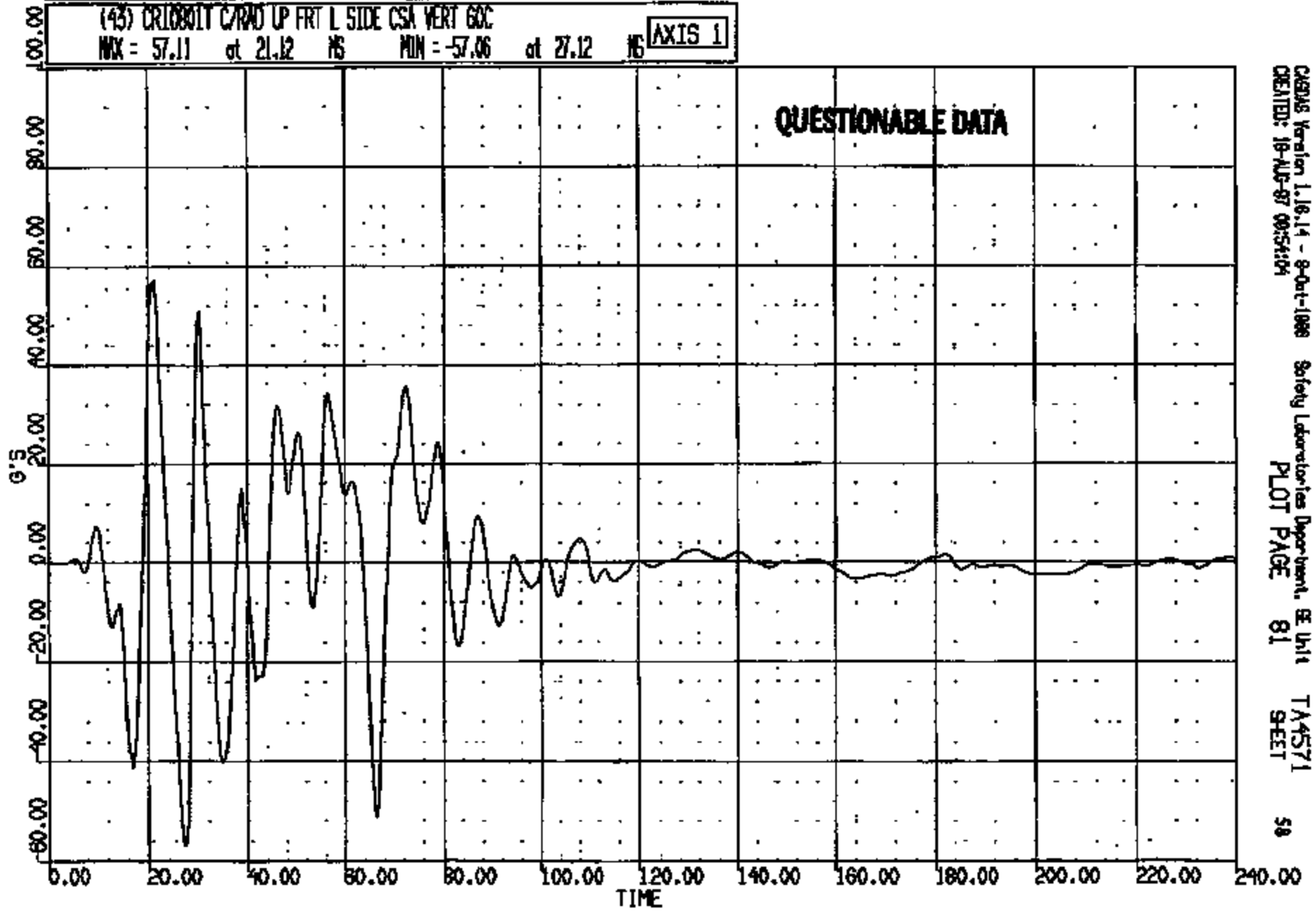


CADDS Version 1.10.14 - 8-Oct-1998 Safety Laboratories Department, SE Unit  
CREATED: 18-AUG-97 09:15:41B  
PLOT PAGE 80 TA4571  
SHEET 57

CRTS 0010801

CR R: 10801 TO: TA4571 DATE: 870815 09:18:04  
189X UNKNOWN

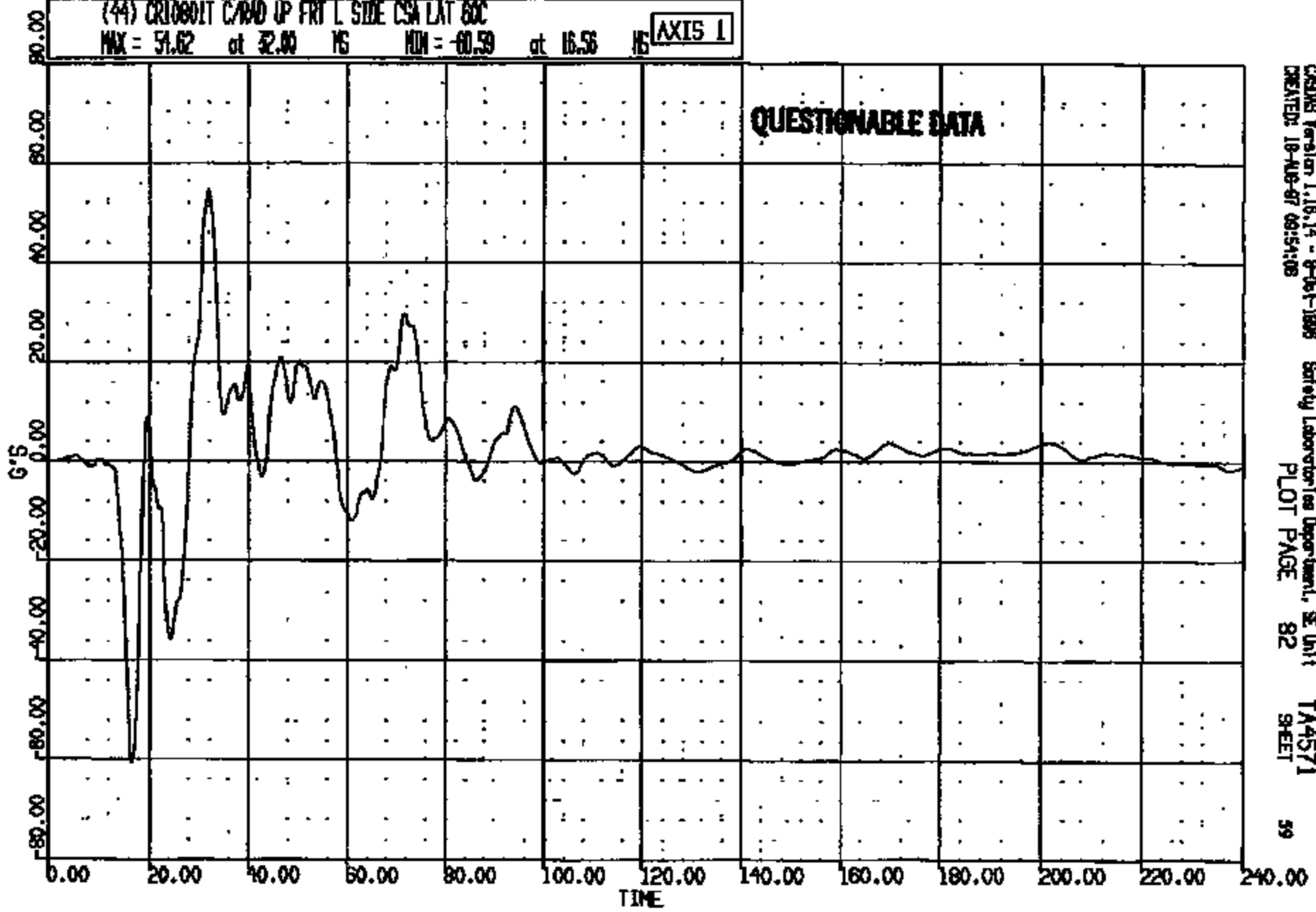
(43) CR10801 C/RAD UP FRT L SIDE CSA VERT GOC  
MAX = 57.11 at 21.12 MS MIN = -57.06 at 27.12 MS **AXIS 1**



CRTS 0010801

CR R: 10801 TO: TA4571 DATE: 070818 09:16:04  
199X UNKNOWN

(44) CR1000IT C/NO UP FRI L SIDE CSA LAT 60C  
MAX = 51.62 at 32.00 HS MIN = -60.59 at 16.56 HS **AXIS 1**



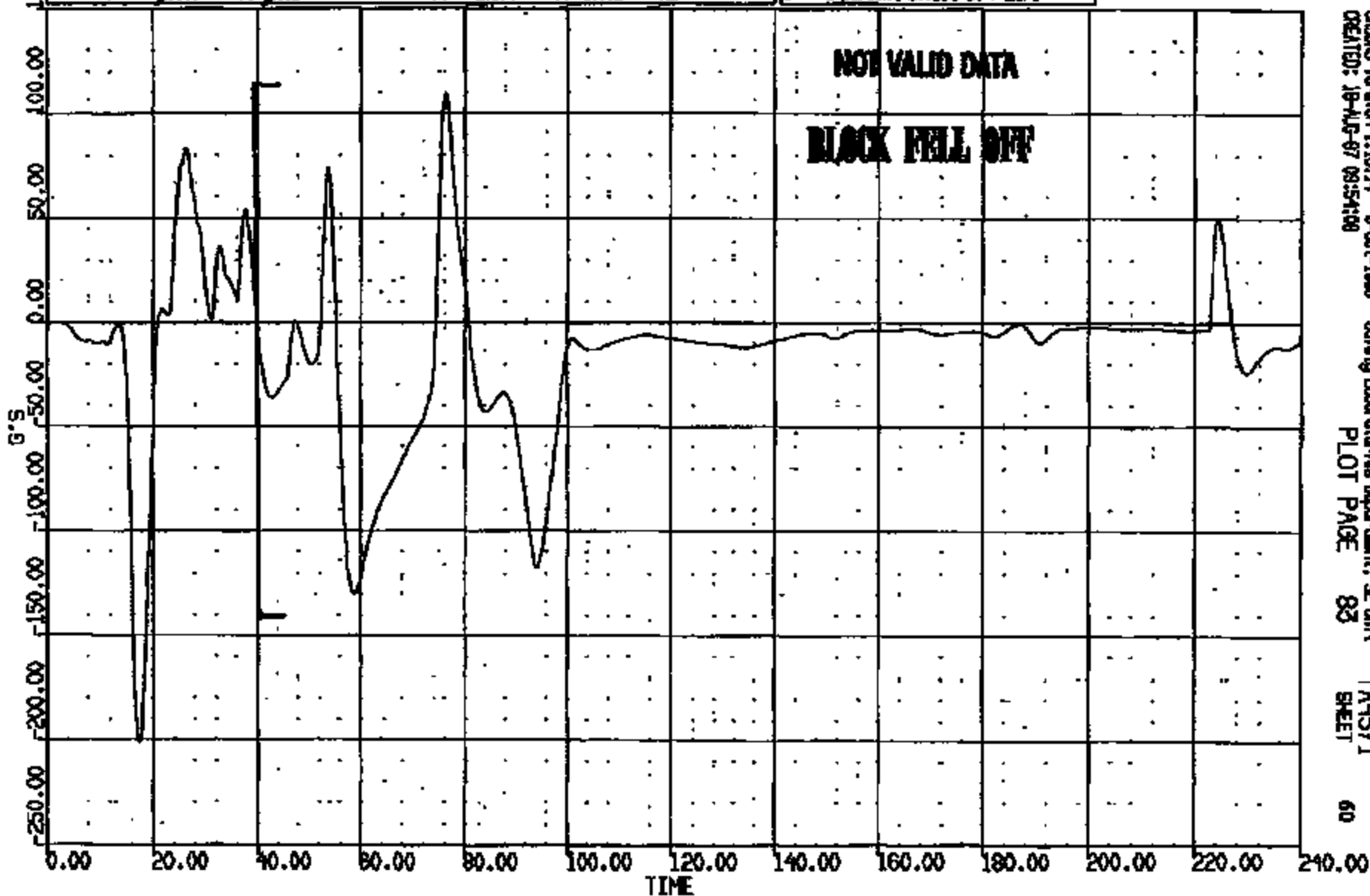
CASMS Version 1.16.14 - 9-Oct-1998 Safety Laboratories Department, SE Unit  
CREATED: 18-AUG-97 09:54:08 PLOT PAGE 82 TA4571 SHEET 59

CRTS 0010801

CR #: 10901 TO: TA4571 DATE: 970818 09:18:04  
199X UNKNOWN

\* (45) CR1000IT CARD UP FRT R SIDE CSA LONG 60C  
MAX = 109.5 at 16.21 NS MIN = -201.4 at 17.52 NS **AXIS 1**

ANOMLY KEY:  
\* - Midband data exceeded full scale  
# - >1 percent offset of T-zero



CISMS Version 1.16.14 - 8-Oct-1998  
CREATED: 18-AUG-97 09:54:00

Safety Laboratories Department, GE Unit  
PLOT PAGE 83

TA4571  
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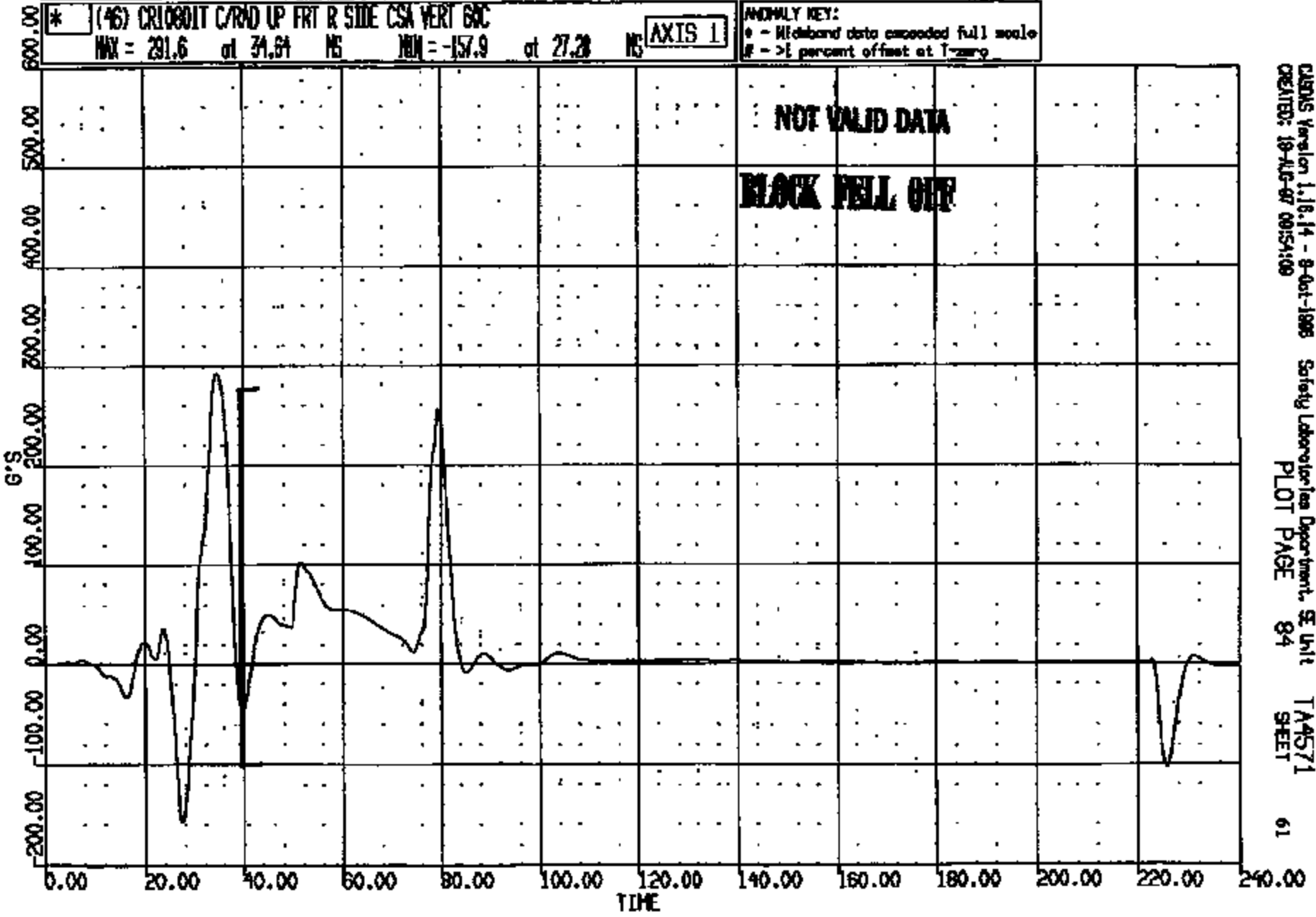
60

CRTS 0010801

CR R: 10801 TD: TA4571 DATE: 970818 09:18:04  
189X UNKNOWN

\* (46) CR10801T C/RND UP FRT R SIDE CSA VERT 60C  
MAX = 291.6 at 31.84 MS MIN = -157.9 at 27.28 MS **AXIS 1**

ANOMLY KEY:  
\* - Midband data exceeded full scale  
# - >| percent offset at T-zero



CADDS Version 1.18.14 - 9-Oct-1998 Safety Laboratories Department, SE Unit TA4571  
CREATED: 18-AUG-97 09:54:09 PLOT PAGE 84 SHEET 61

CRIS 0010801

CR R: 10801 TD: TA4571 DATE: 970818 09:18:04

199X UNKNOWN

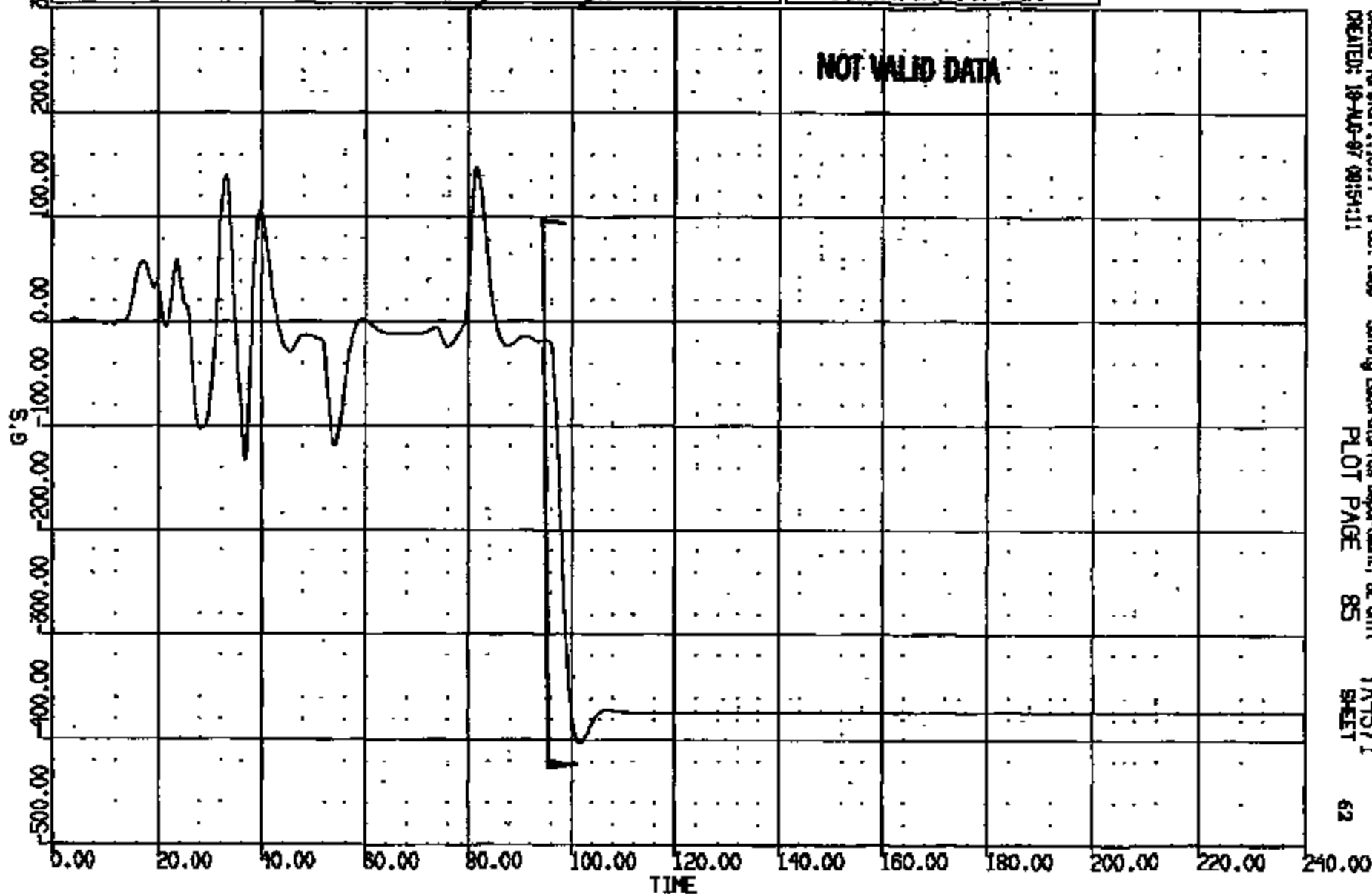
\* (47) CR10801T C/RAD UP FRT R SIDE CSA LAT 60C

MAX = 148.1 at 81.68 MS MIN = ~~-438.6~~ at 101.6 MS

AXIS 1

ANOMALY KEY:

\* - Nidecard data exceeded full scale  
# - >1 percent offset at T-zero



CAS918 Version 1.18.14 - P-01-1998  
CREATED: 18-AUG-97 09:15:11

Safety Laboratories Department, SE Unit  
PLOT PAGE 85

TA4571  
SHEET

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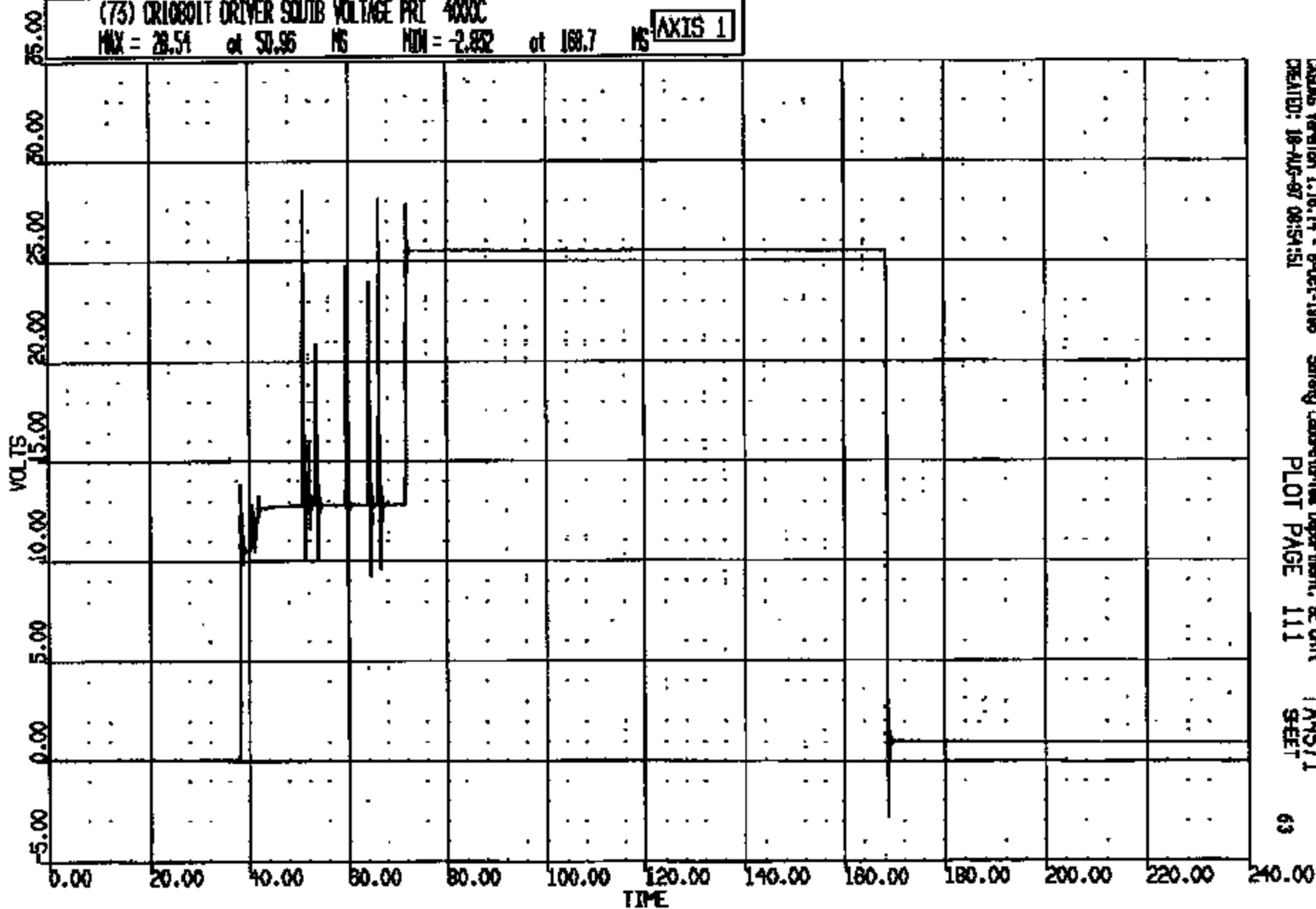
CRTS 0010801

CR R: 10801 TO: TA4571 DATE: 970818 08:18:04  
100X UNKNOWN

(73) CR10801 DRIVER SOURCE VOLTAGE PRI 4000C

MAX = 28.51 at 50.95 NS MIN = -2.832 at 168.7 NS

AXIS 1



CASYS Version 1.18.14 - 8-Oct-1999  
CREATED: 18-AUG-97 08:54:51

Safety Laboratories Department, BE Unit  
PLOT PAGE 111

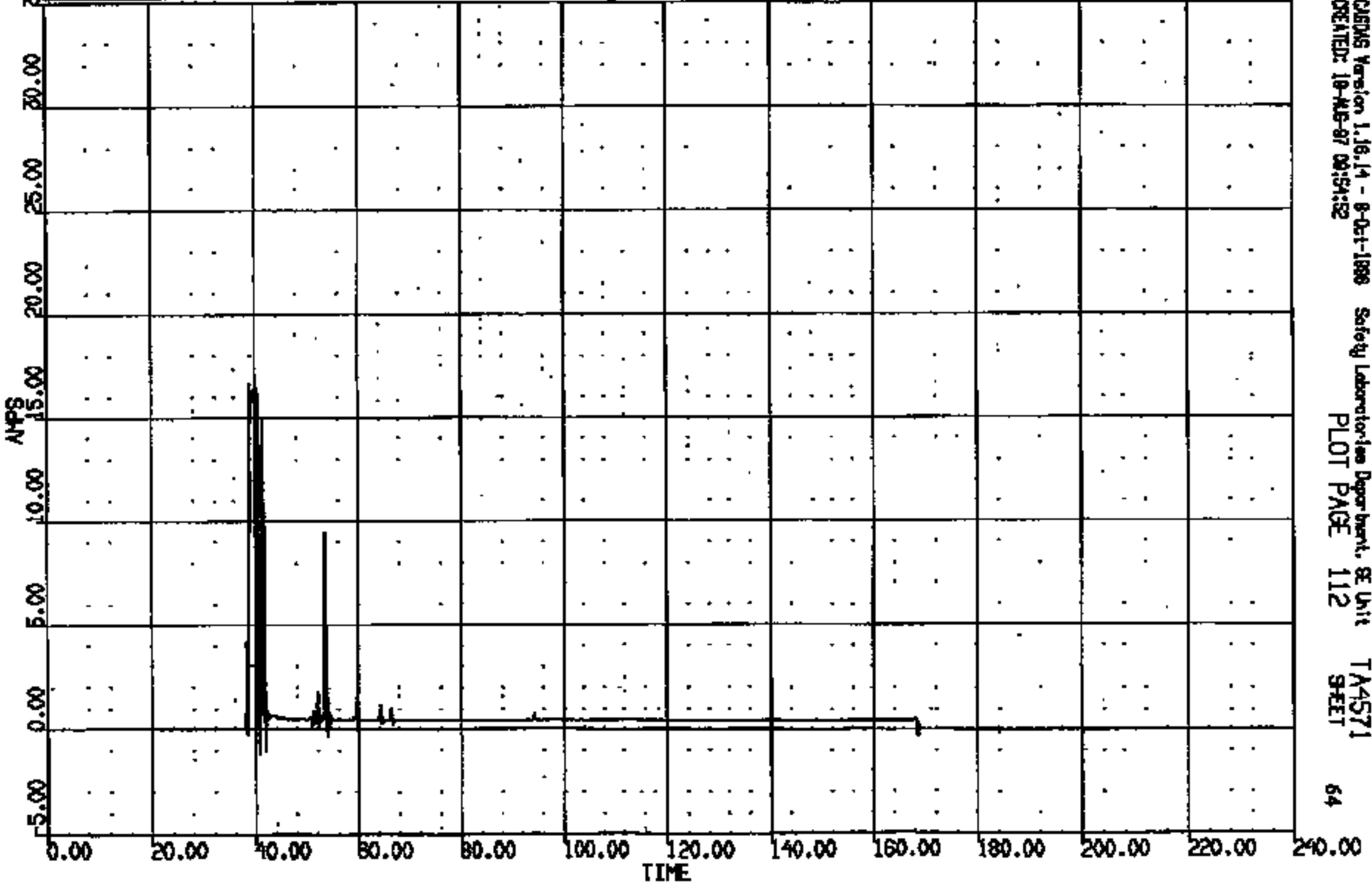
TA4571  
SHEET

63

CRTS 0010801

CR R = 10801 TO: TA4571 DATE: 970818 09:16:04  
199X UNKNOWN

(74) CR10801Y DRIVER SOUTH CURRENT PRI 400C  
MAX = 16.64 at 39.04 NS MIN = -1.160 at 40.72 NS **AXIS 1**



CADDS Version 1.16.14 - 8-Oct-1998 Safety Laboratories Department, SE Unit TA4571  
CREATED: 10-MB-97 09:54:52 PLOT PAGE 112 SHEET 64

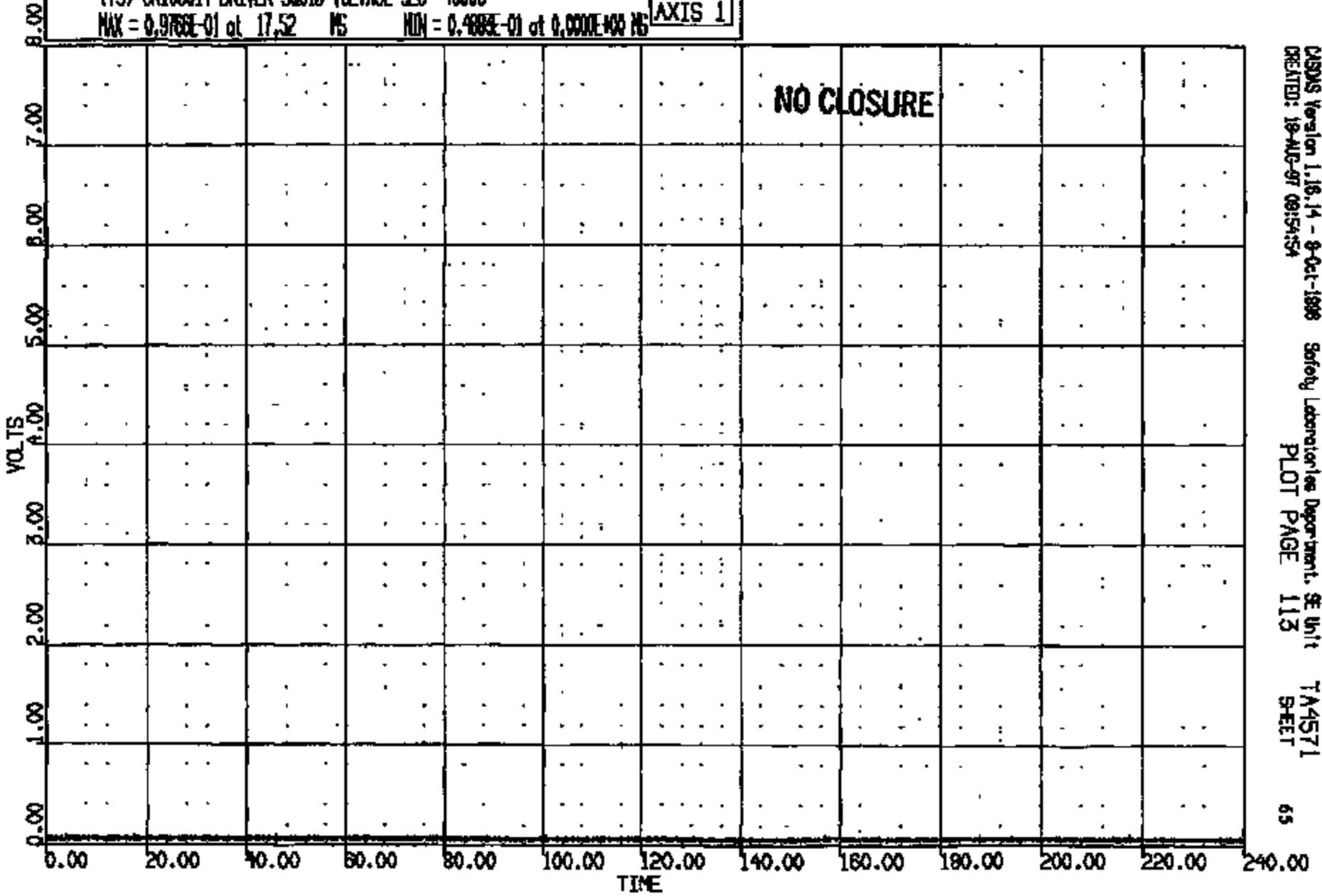
CRTS 0010801



CR R: 10801 TO: TA4571 DATE: 870818 09:18:04  
199X UNKNOWN

(75) CR10801 DRIVER SOURCE VOLTAGE SEC 4000C  
MAX = 0.9766E-01 at 17.52 MS MIN = 0.4688E-01 at 0.000E+00 MS

AXIS 1



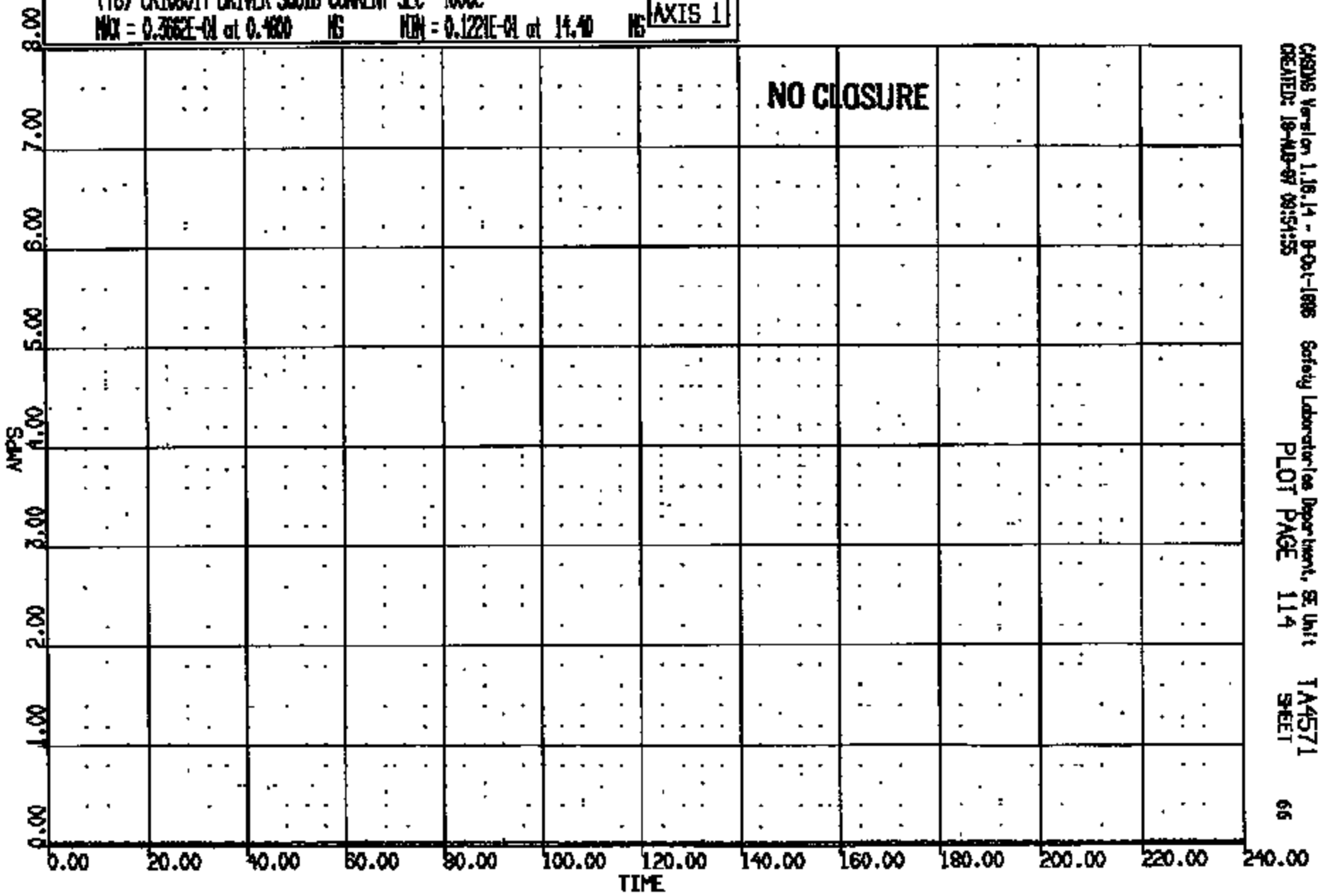
CR R: 10801 TO: TA4571 DATE: 870818 09:18:04

189X UNKNOWN

(76) CR10801T DRIVER SOURCE CURRENT SEC 4000C

MAX = 0.2662E-01 at 0.400 NS MIN = 0.1221E-01 at 14.40 NS

AXIS 1



CASMS Version 1.18.14 - 8-Oct-1988  
CREATED: 18-NOV-87 09:54:55

Safety Laboratories Department, SE Unit  
PLOT PAGE 114

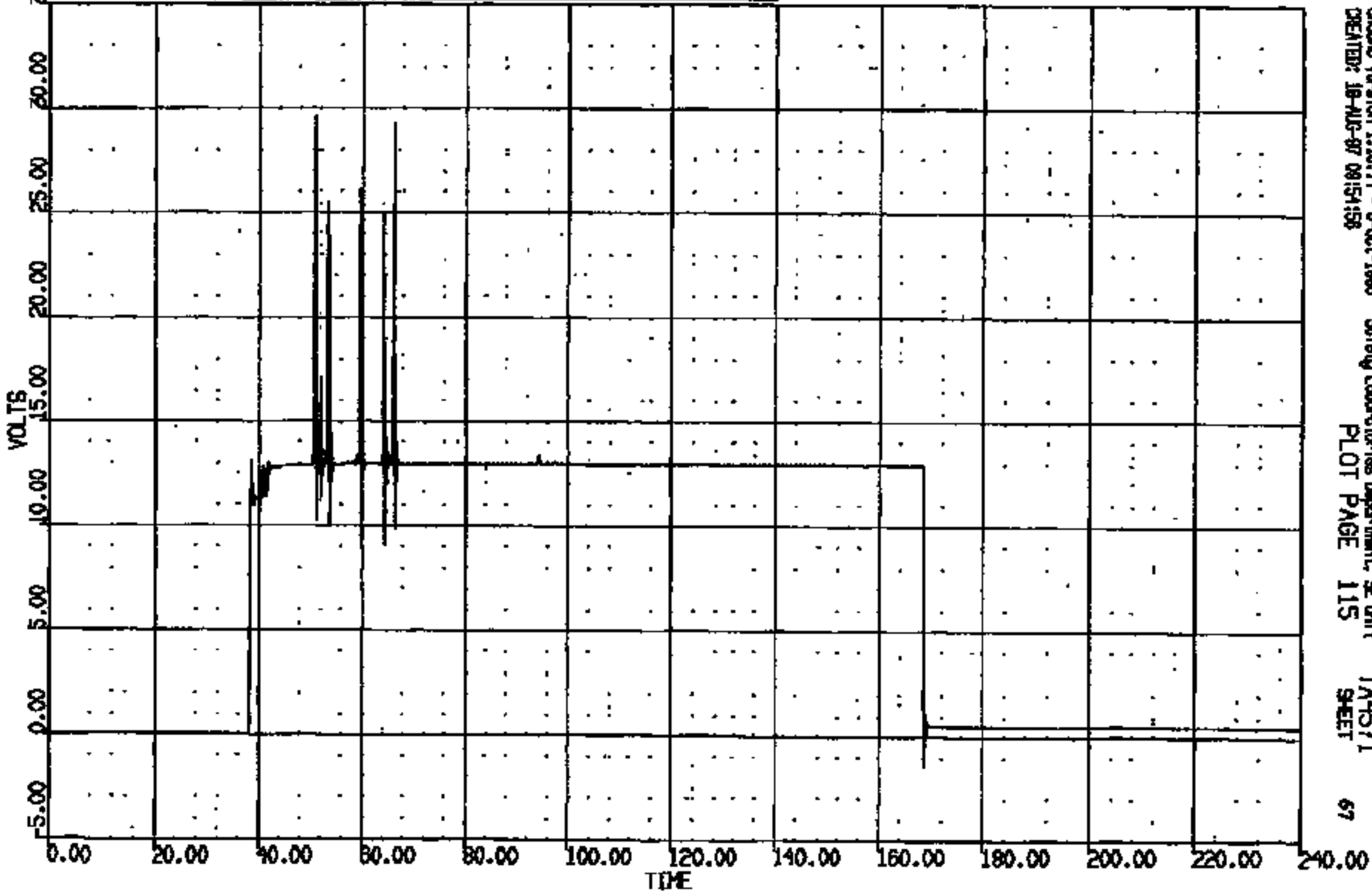
TA4571  
SHEET

CRITS 0010801

CR R: 10801 TO: TA4571 DATE: 870818 09:18:04  
199X UNKNOWN

(77) CR10801T PASSENGER SQUIB VOLTAGE 400C  
MAX = 29.61 at 50.96 MS MIN = -1.416 at 168.7 MS

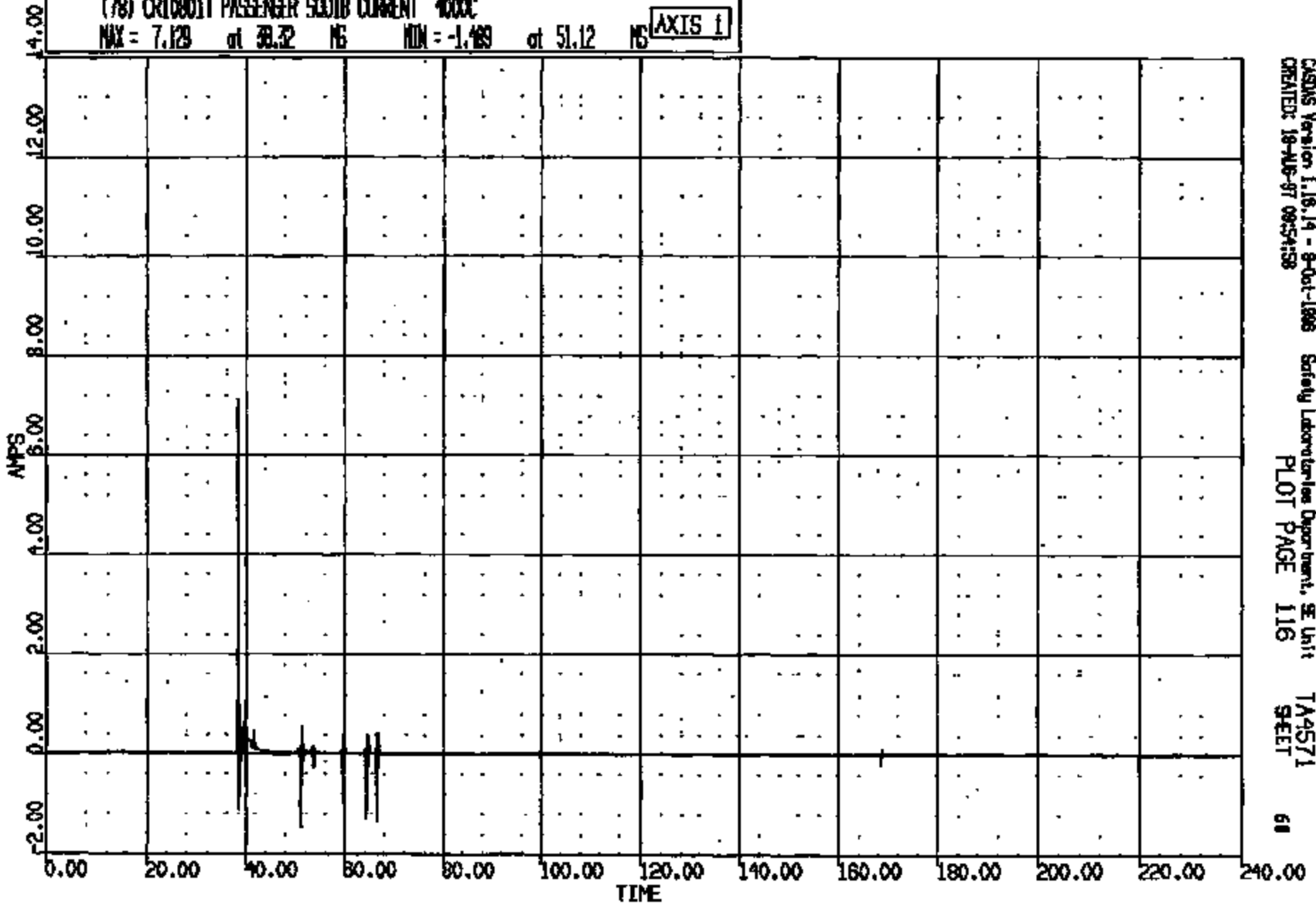
AXIS 1



CASUS Version 1.18.14 - 8-Oct-1988 Safety Laboratories Department, SE Unit  
CREATED: 18-AUG-87 09:15:158  
PLOT PAGE 115  
TA4571  
SHEET

CR R: 10801 TO: TA4571 DATE: 070818 09:18:04  
100X UNKNOWN

(78) CR10801T PASSENGER SOLID CURRENT 4000C  
MAX = 7.129 at 39.32 MS MIN = -1.489 at 51.12 MS **AXIS 1**

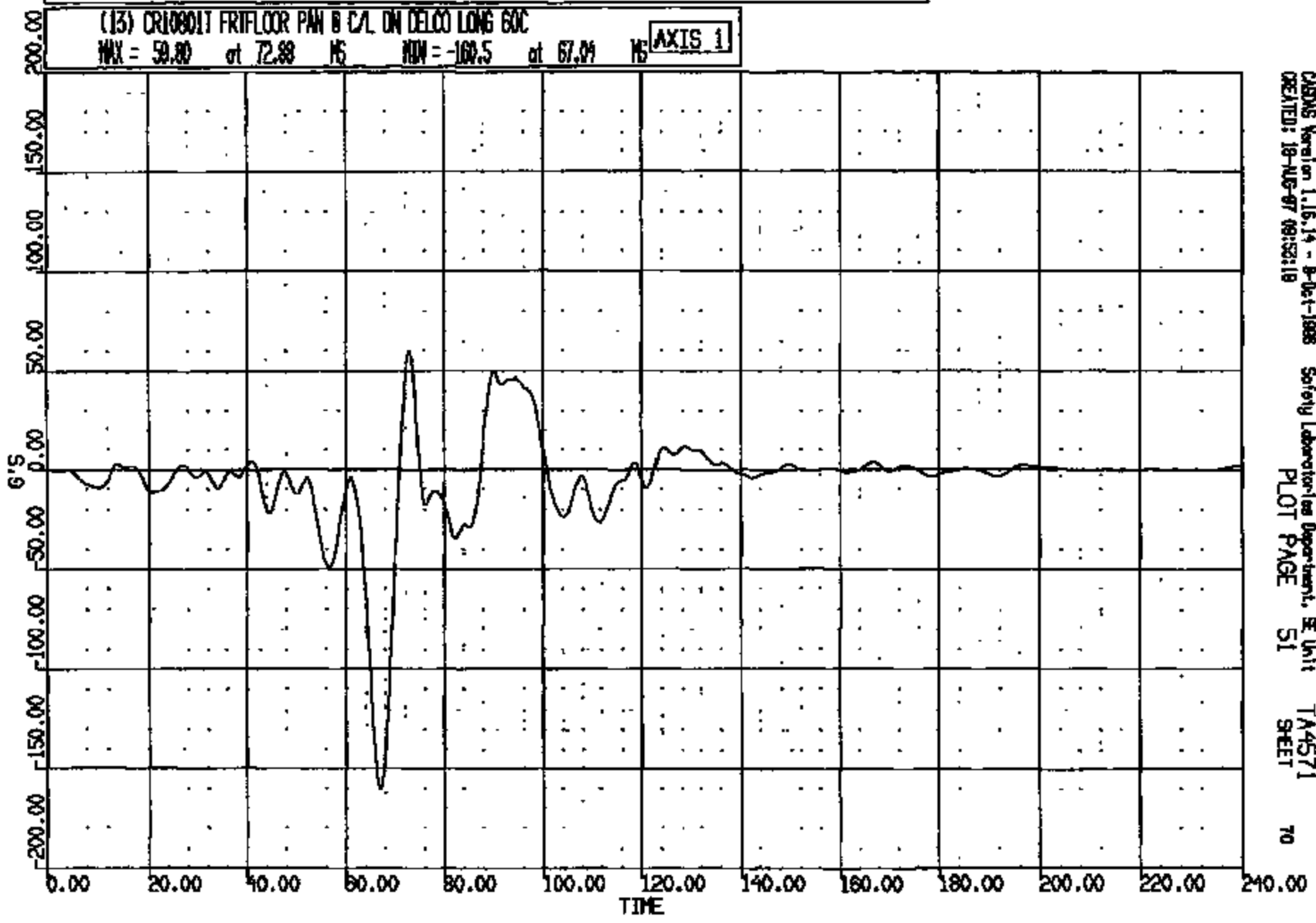


CASUS Version 1.18.14 - 9-Oct-1999 Safety Laboratories Department, SE Unit TA4571  
CREATED: 18-AUG-97 09:54:58 PLOT PAGE 116 SHEET 68

CRTS 0010801

CR R: 10801 TO: TA4571 DATE: 970819 09:18:04  
199X UNKNOWN

(13) CR108011 FRIFLOOR PAN @ CAL DN DELCO LONG 60C  
MAX = 59.80 at 72.88 MS MIN = -160.5 at 67.04 MS **AXIS 1**



CADMS Version 1.16.14 - P-04-1-1998 Safety Laboratories Department, SE Unit TA4571  
CREATED: 19-AUG-97 09:53:18 PLOT PAGE 51 SHEET 70

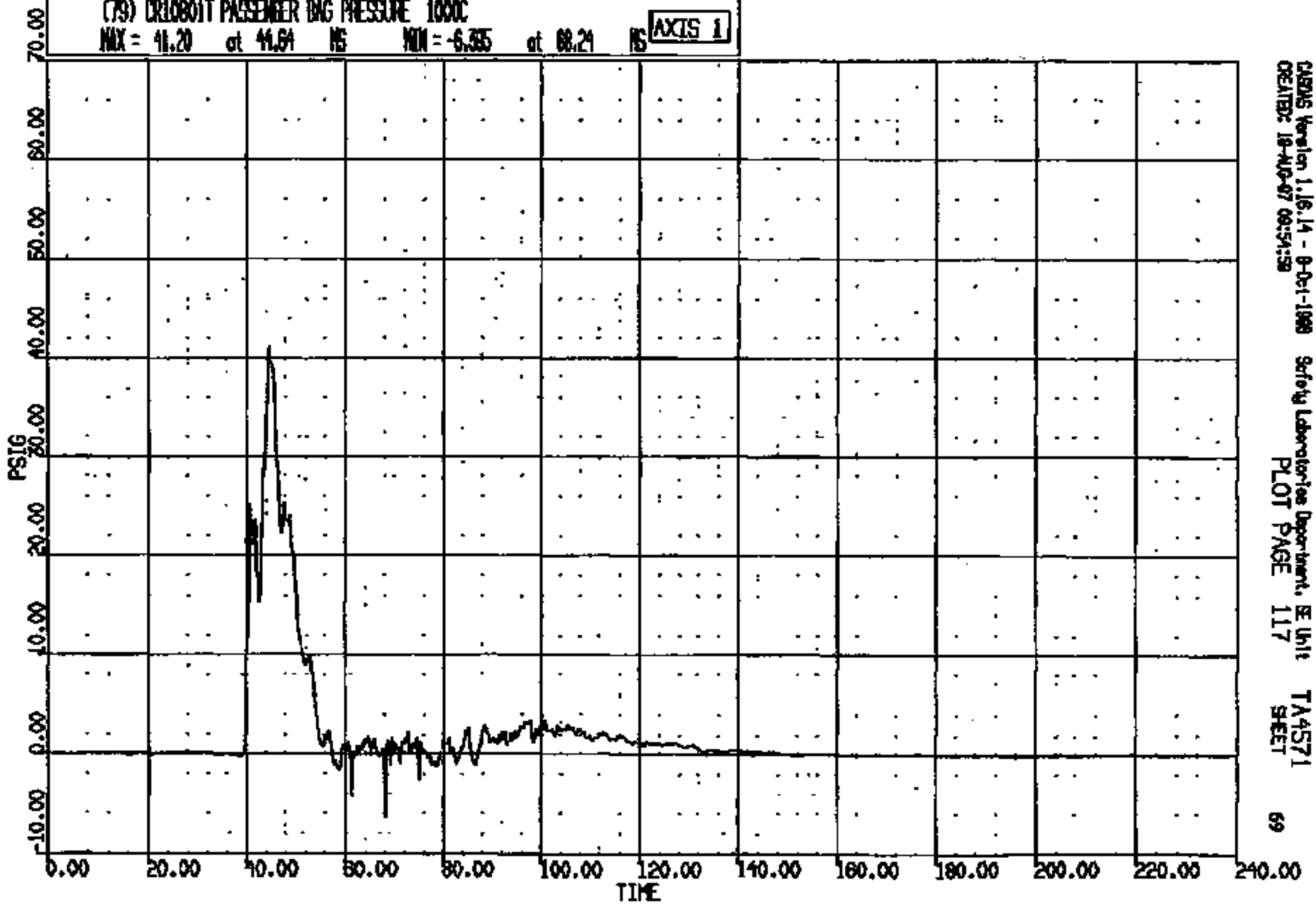
CRTS 0010801

CR #: 10801 TO: TA4571 DATE: 970818 09:16:04  
189X UNKNOWN

(79) CR10801 PASSENGER ING PRESSURE 1000C

MAX = 41.20 at 41.64 MS MIN = -6.35 at 68.21 MS

AXIS 1



CASAS Version 1.16.14 - 8-01-1998  
CREATED: 18-AUG-97 09:54:59

Safety Laboratories Department, E Unit  
PLOT PAGE 117  
TA4571  
SHEET

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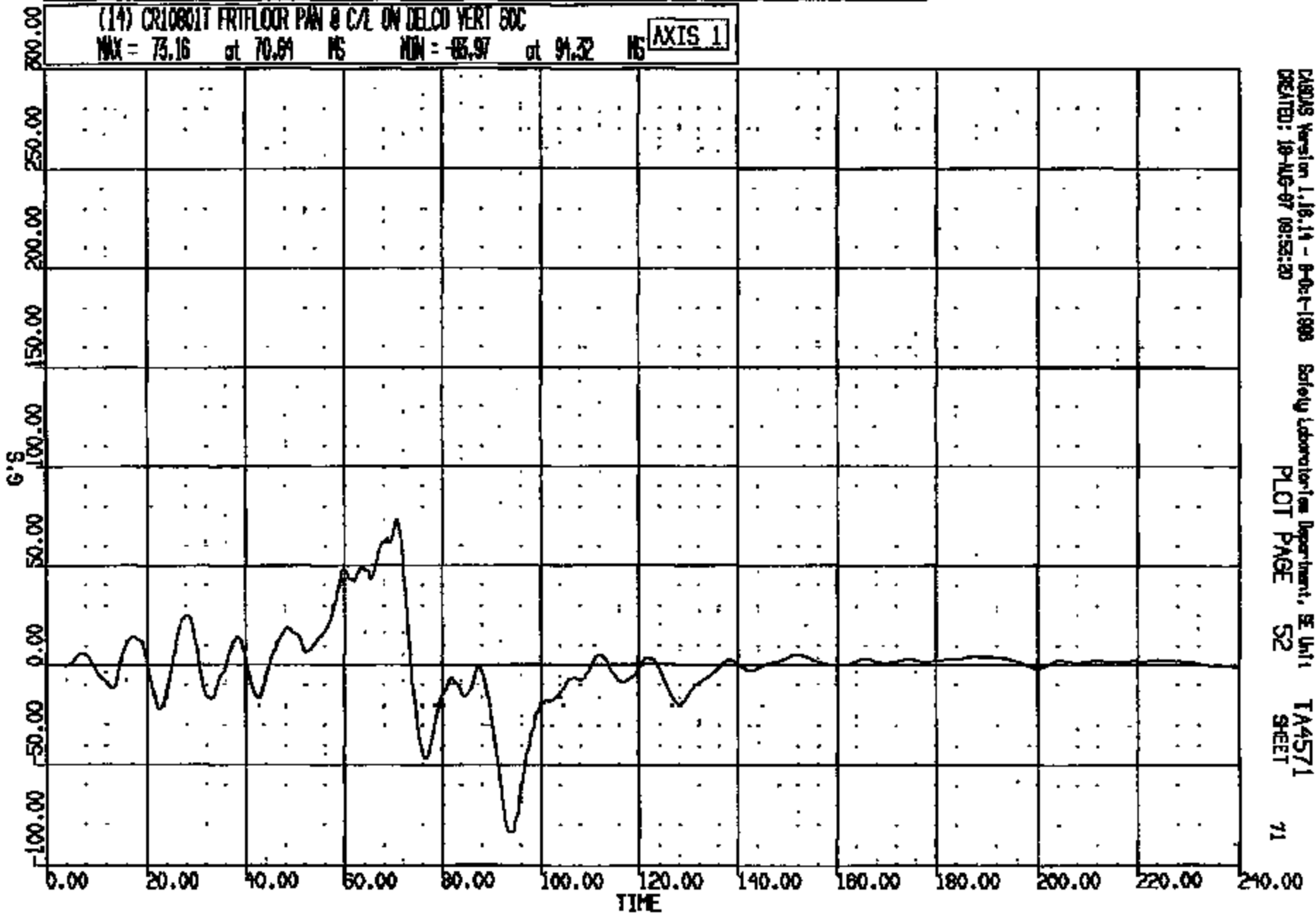
CRTS 0010801

CR R: 10801 TO: TA4571 DATE: 970618 09:16:04  
199X UNKNOWN

(14) CR10801T FRTFLOOR PAN @ C/L ON DELCD VERT SOC

MAX = 73.16 at 70.64 MS MIN = -85.97 at 91.32 MS

AXIS 1

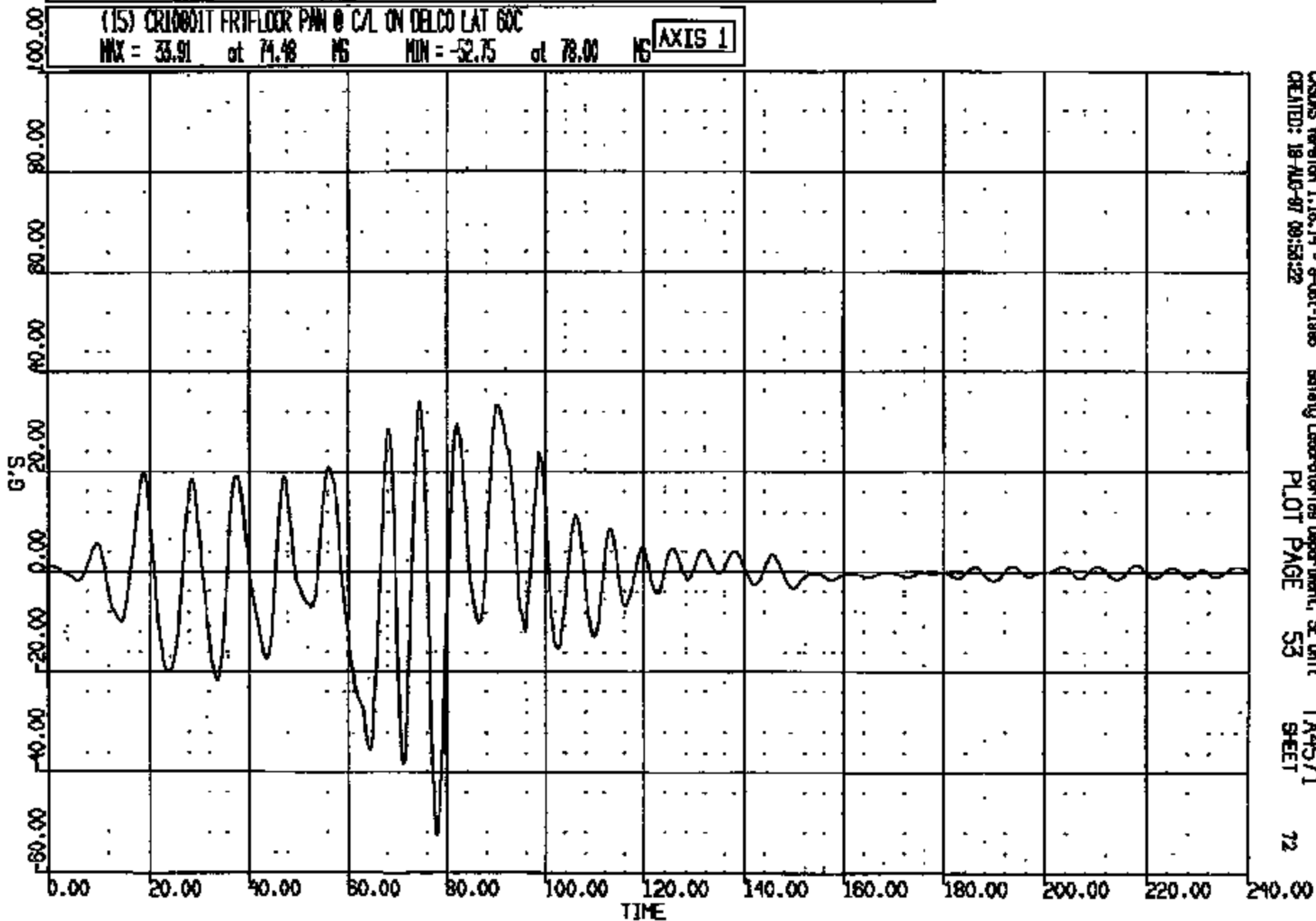


CR R: 10801 TO: TA4571 DATE: 970818 09:16:04  
199X UNKNOWN

(15) CR1000IT FRT-FLOOR PWN @ C/L ON DELCO LAT 60C

MAX = 33.91 at 74.48 MS MIN = -52.75 at 78.00 MS

AXIS 1



CRTS 0010801

CRS0NS Version 1.18.14 - 9-Oct-1988  
CREATED: 18-AUG-87 09:58:22

Safety Laboratories Department, SE Unit  
PLOT PAGE 53

TA4571  
SHEET

72



CR R: 10801 TO: TA9571 DATE: 970818 09:16:04  
100X UNKNOWN

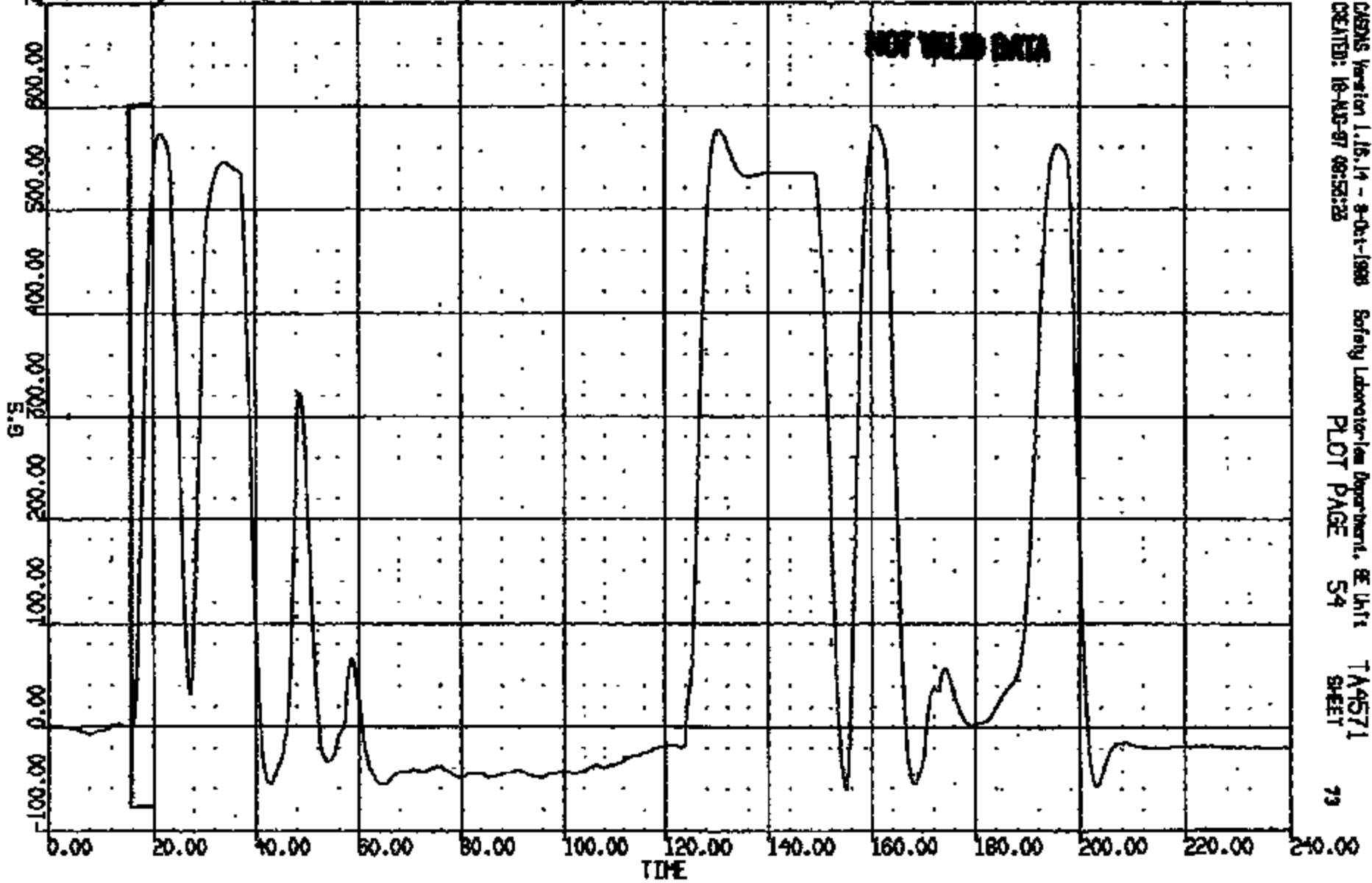
\* (16) CR10801 L/A-PILLAR INSIDE LOWER SH LONG 60C

MAX = 581.5 at 100.7 MS MIN = -62.85 at 155.0 MS

AXIS 1

ANOMLY KEY:

\* - Midband data exceeded full scale  
# - >1 percent offset at T-zero



CRSNS Version 1.16.14 - 8-Oct-1988  
CREATED: 18-AUG-97 09:53:23

Safety Laboratories Department, GE Unit 1  
PLOT PAGE 54

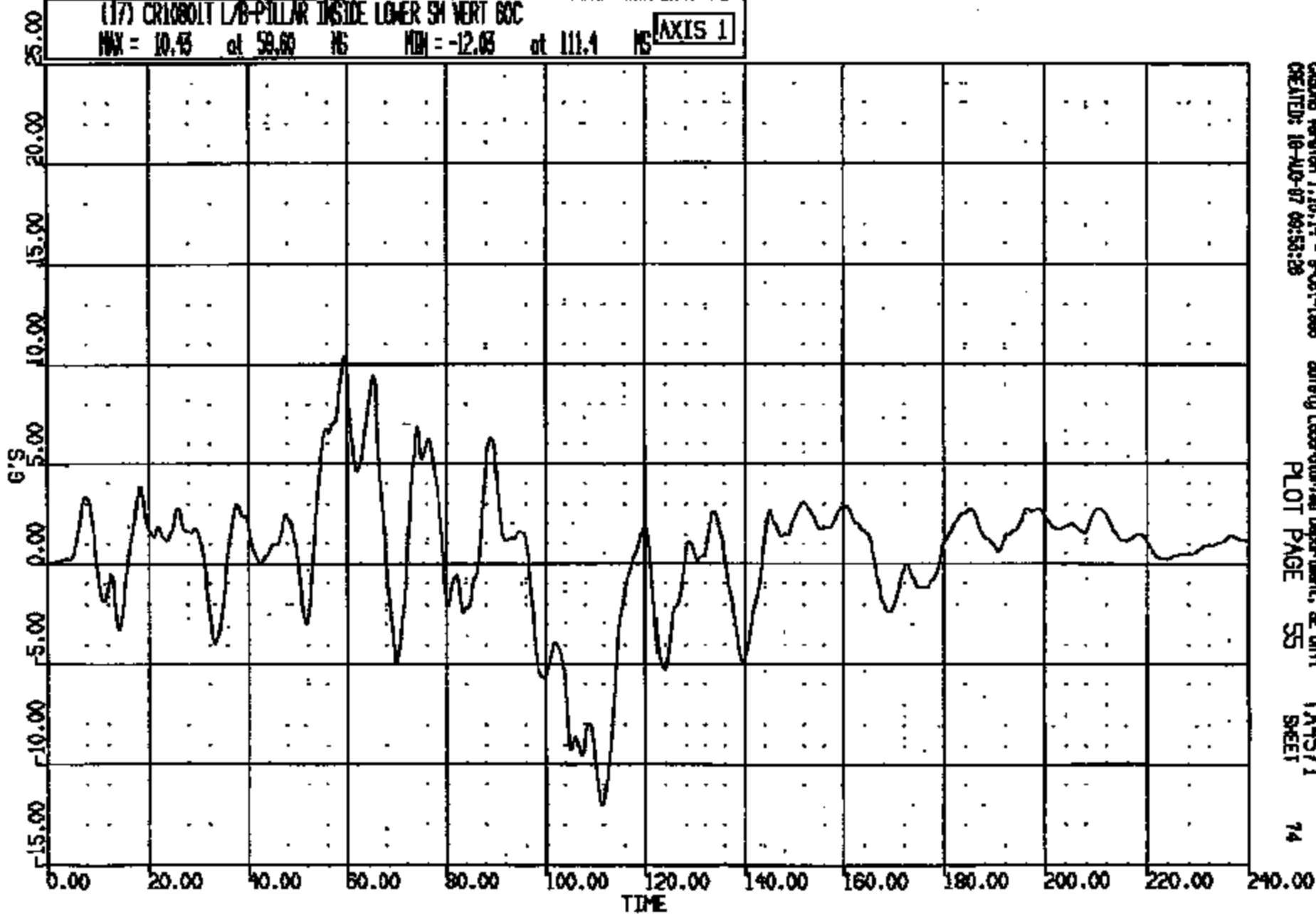
TA9571  
SHEET

CR#: 10801 TO: TA4571 DATE: 970818 09:18:04  
199X UNKNOWN

(17) CRIBBIT L/B-PILLAR INSIDE LOWER SM VERT 60C

MAX = 10.43 at 59.60 MS MIN = -12.08 at 111.4 MS

AXIS 1



CRIS 0010801

CRSIS Version 1.15.14 - P-01-1986  
CREATED: 18-AUG-97 09:53:28

Safety Laboratories Department, SE Unit  
PLOT PAGE 55

TA4571  
SHEET

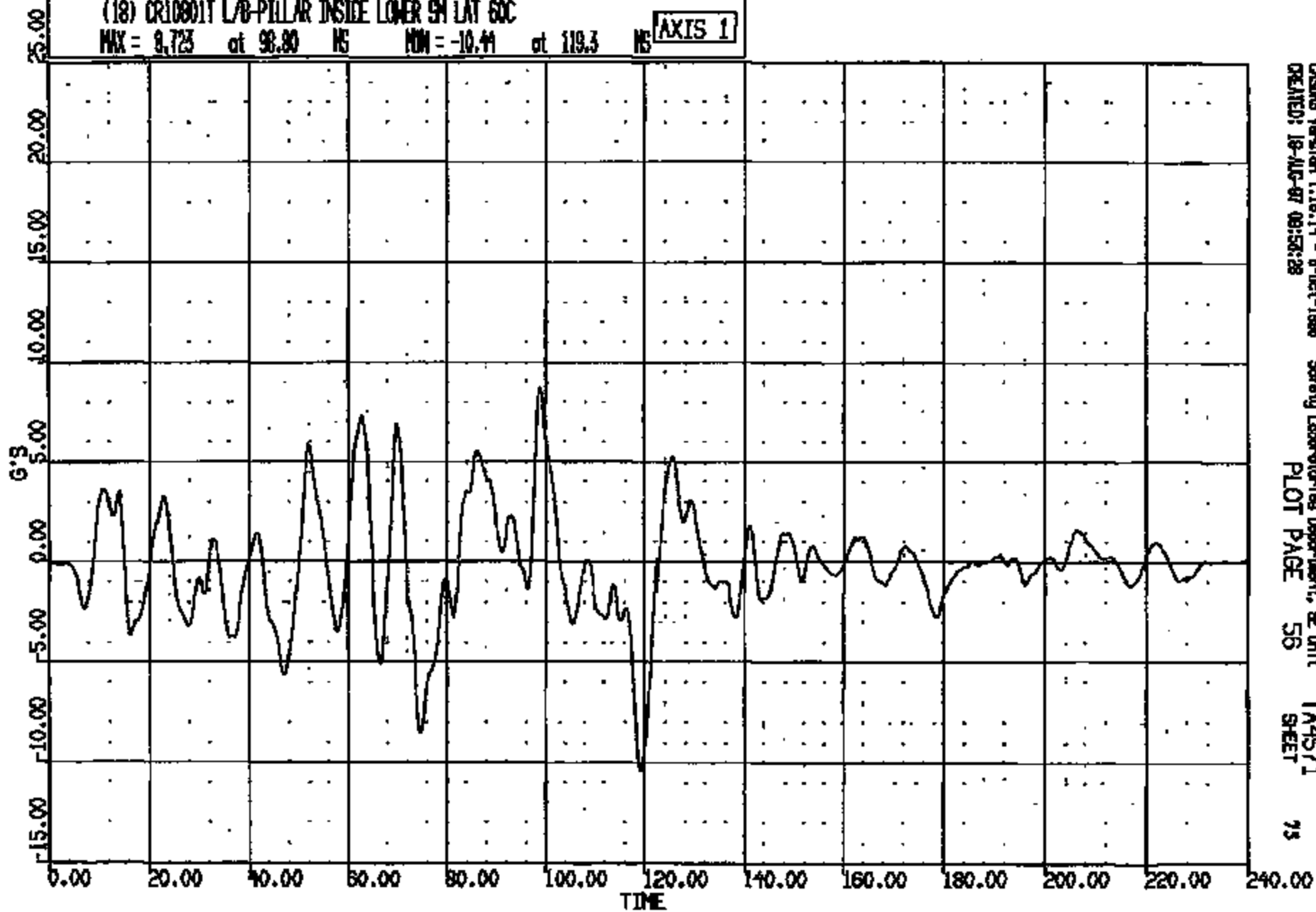
74

CR #: 10801 TO: TA4571 DATE: 970818 09:18:04  
189X UNKNOWN

(18) CR10801T L/B-PILLAR INSIDE LOWER 9H LAT 60C

MAX = 8.723 at 98.80 NS MIN = -10.41 at 119.3 NS

AXIS 1



CASINS Version 1.16.14 - B-Inst-1888  
CREATED: 18-AUG-97 09:58:28

Safety Laboratories Department, SE Unit  
PLOT PAGE 56

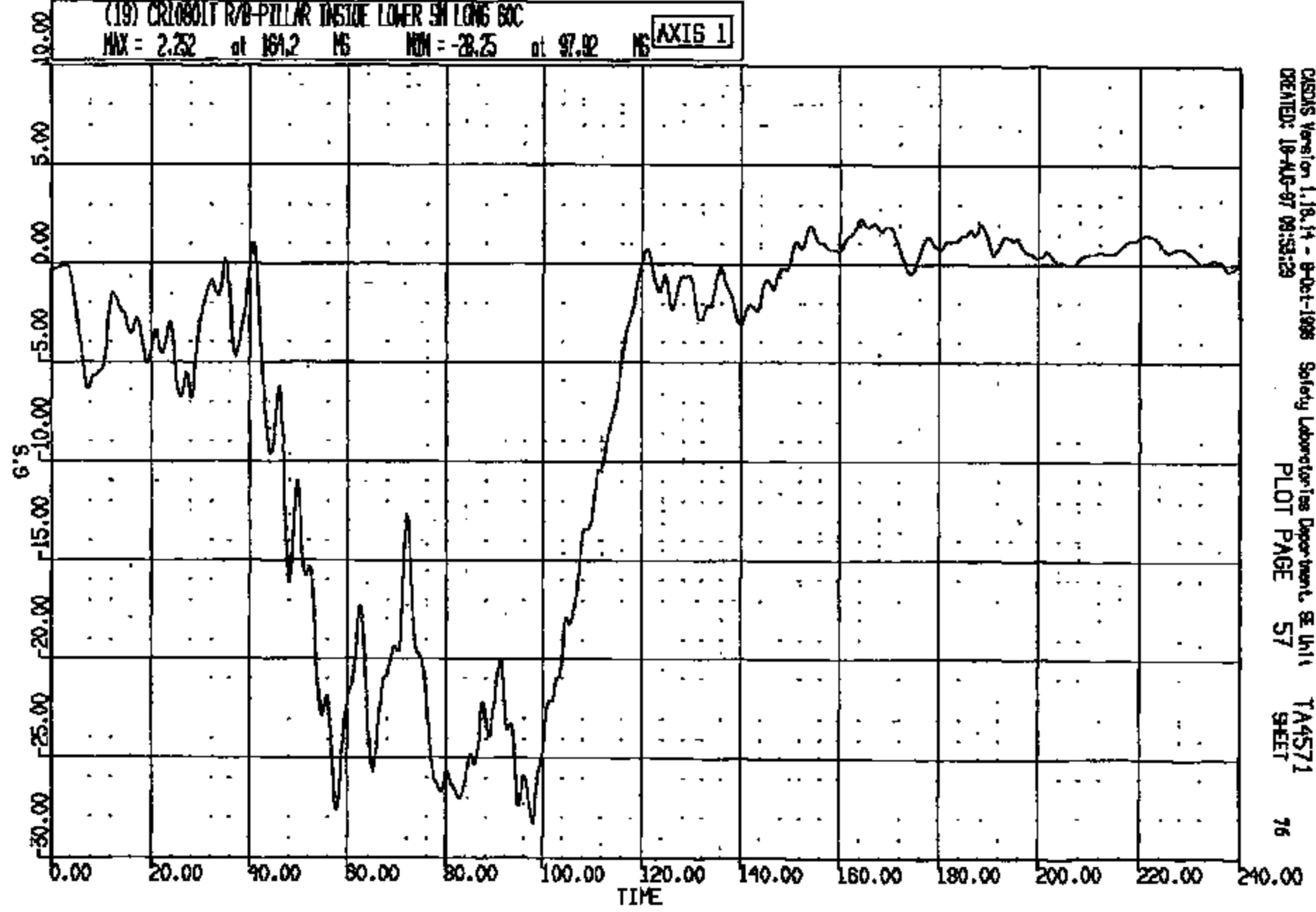
TA4571  
SHEET

75

CRTS 0010801

CR R: 10801 TO: TA4571 DATE: 970818 09:18:04  
189X UNKNOWN

(19) CR10801 R/B-PILLAR INSIDE LOWER SH LONG SOC  
MAX = 2.252 at 161.2 MS MIN = -28.25 at 97.92 MS **AXIS 1**

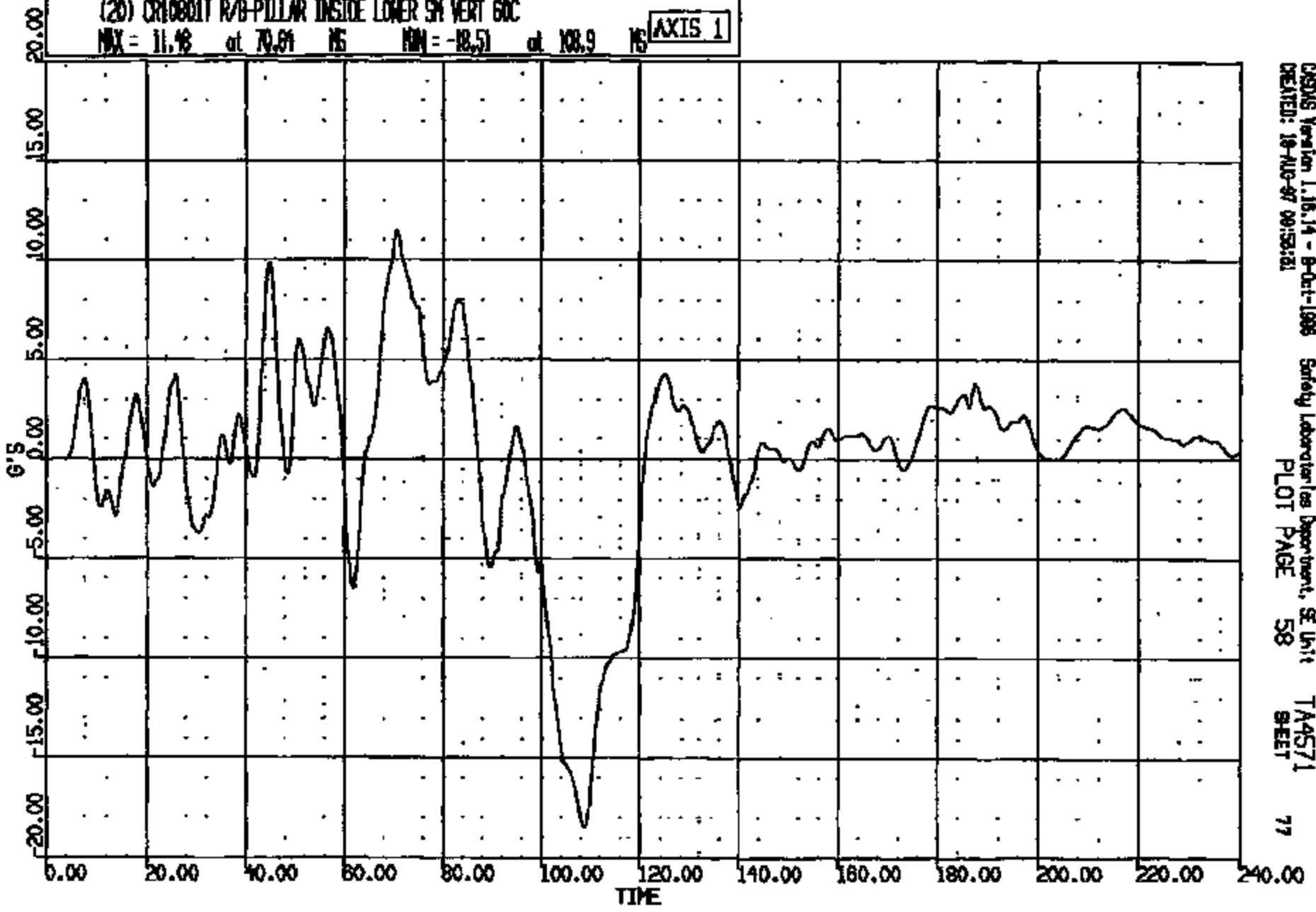


CRSIS Version 1.18.14 - B-Del-1998 Safety Laboratories Department, SE Unit 1  
CREATED: 18-AUG-97 09:53:29 PLOT PAGE 57 TA4571 SHEET 76

CRITS 0010801

CR #: 10801 TO: TA4571 DATE: 870818 08:18:04  
199X UNKNOWN

(20) CR10801T R/B-PILLAR INSIDE LOWER SH VERT 60C  
MAX = 11.48 at 70.64 MS MIN = -18.51 at 108.9 MS **AXIS 1**



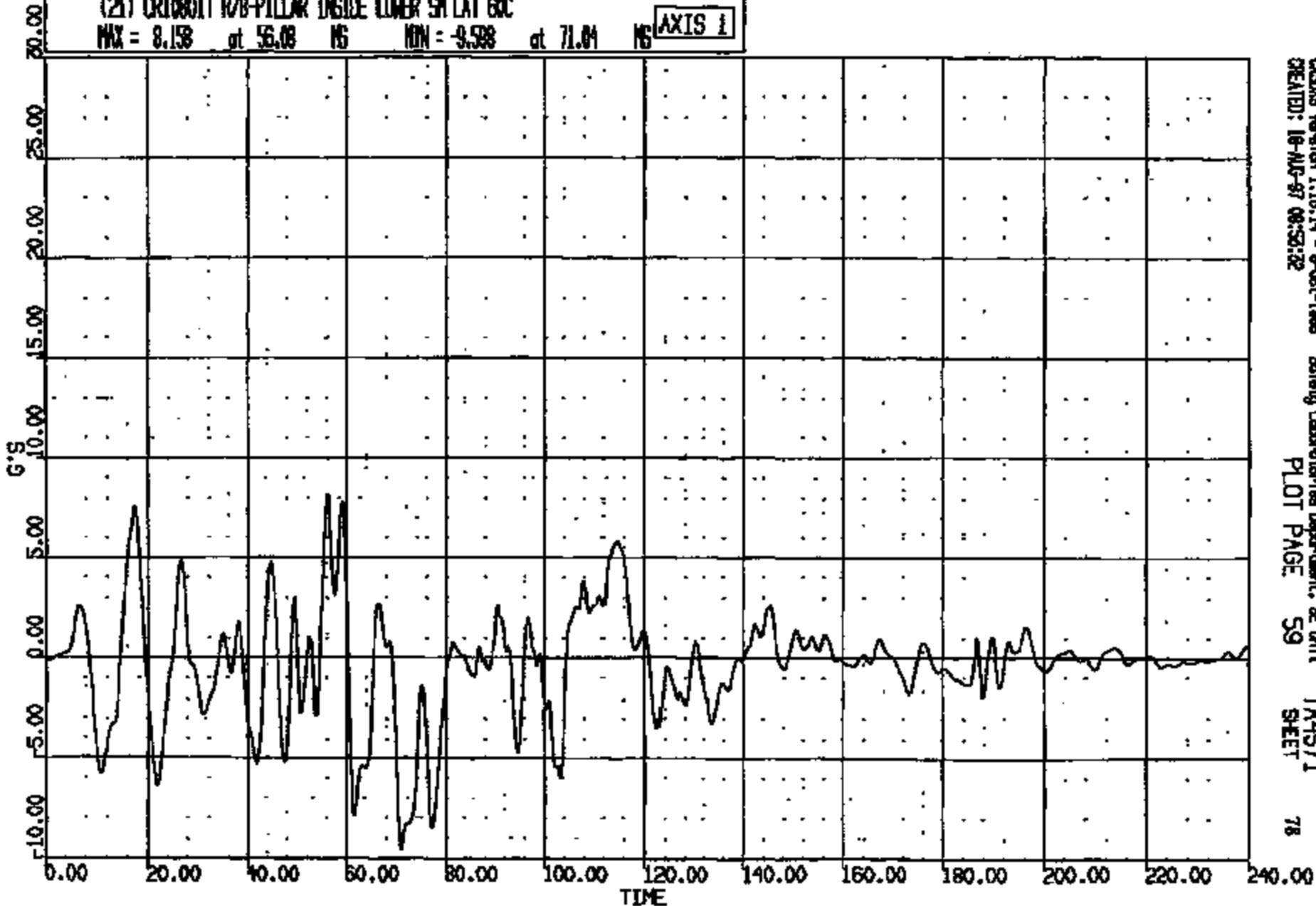
CRSIS Version 1.18.14 - 8-Oct-1988 Safety Laboratories Department, SE Unit  
CREATED: 18-AUG-87 09:58:21 PLOT PAGE 58 TA4571 SHEET 77

CRIS 0010801

CR R: 10801 TO: TA4571 DATE: 870818 09:18:04  
100X UNKNOWN

(21) CRIBBIT R/B-PILLAR INSIDE LOWER SH LAT GOC  
MAX = 8.158 at 56.08 NS MIN = -9.588 at 71.04 NS

AXIS 1



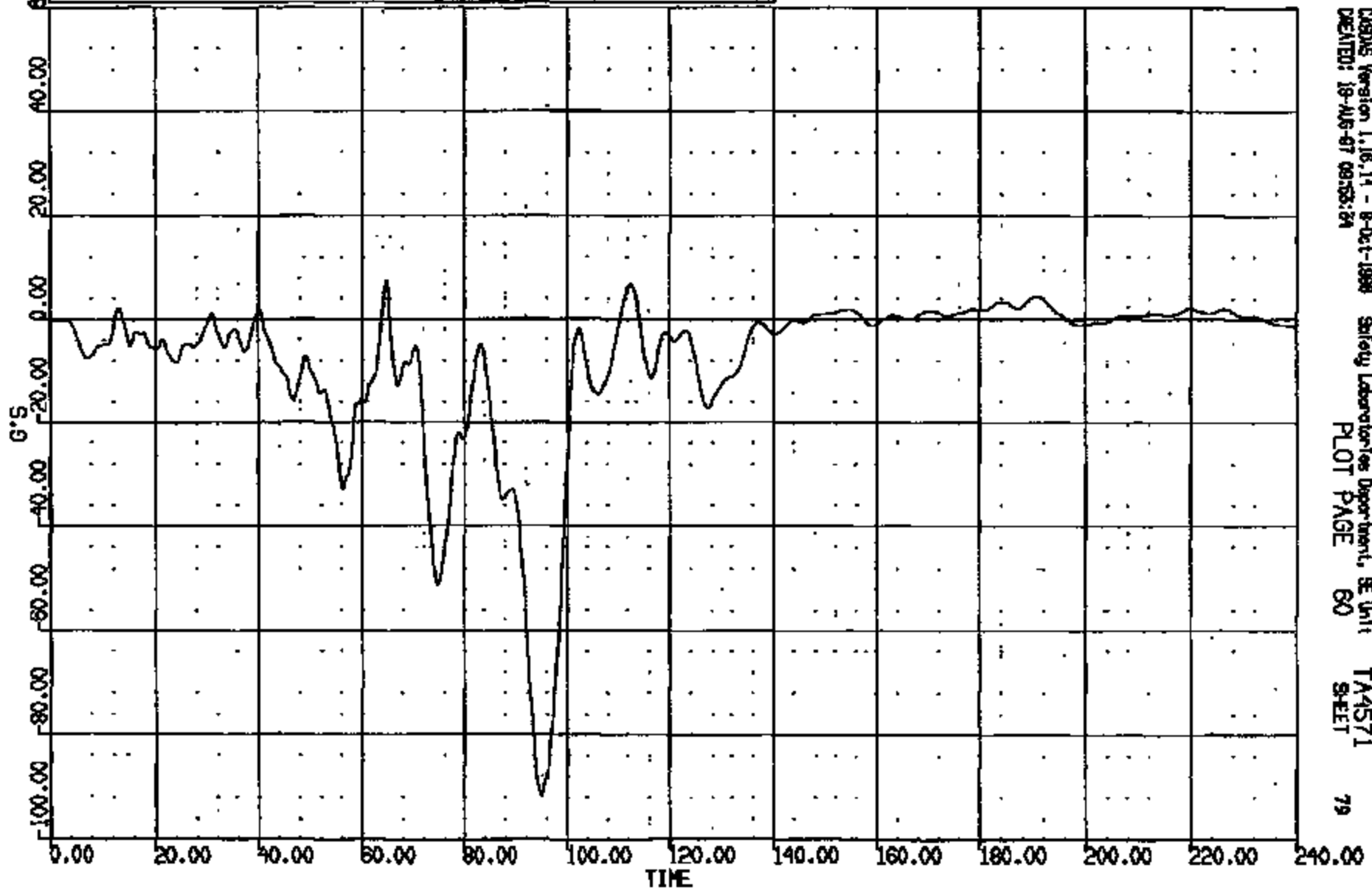
CSDS Version 1.18.14 - 9-Oct-1988 Safety Laboratories Department, SE Unit  
CREATED: 18-AUG-87 08:53:32 PLOT PAGE 59 TA4571 SHEET 78

CRTS 0010801

CR R: 10801 TO: TA4571 DATE: 870818 08:18:04  
199X UNKNOWN

(22) CR10801T C/L TML BETWEEN F/SEATS SH LONG 60C  
MAX = 7.319 at 64.72 HS MIN = -91.90 at 94.96 HS

AXIS 1



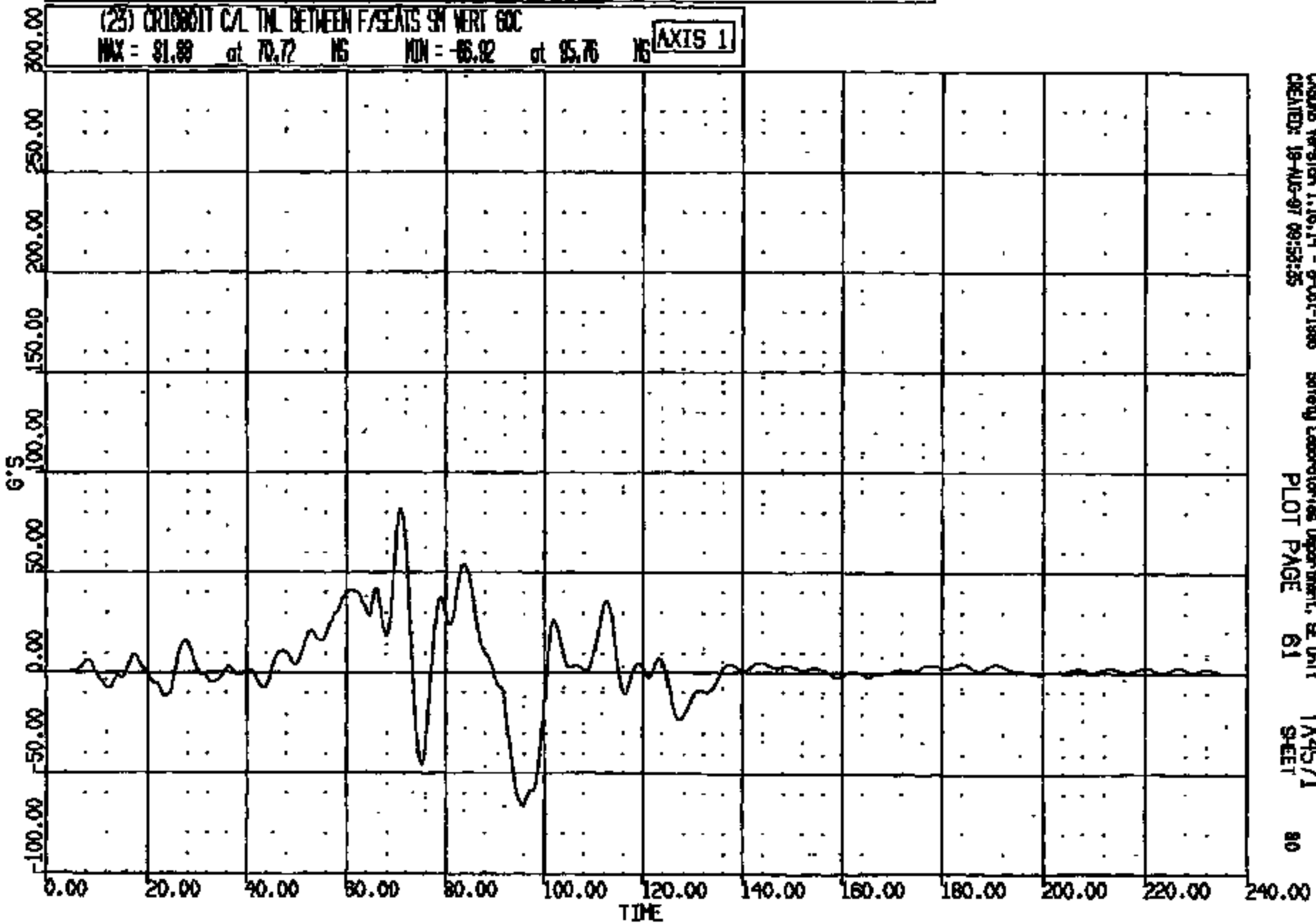
CRS015 Version 1.16.14 - 8-Oct-1999 Safety Laboratories Department, SE Unit TA4571  
CREATED: 18-AUG-87 09:53:24 PLOT PAGE 60 SHEET 79

CRTS 0010801

CR#: 10801 TO: TA4571 DATE: 970818 09:18:04  
180X UNKNOWN

(23) CR10801T C/L TNL BETWEEN F/SEATS SH WERT 60C  
MAX = 81.88 at 79.72 NS MIN = -85.92 at 95.76 NS

AXIS 1



CASIMS Version 1.16.14 - 9-Oct-1998 Safety Laboratories Department, SE Unit  
CREATED: 19-AUG-97 09:58:35 PLOT PAGE 61 TA4571 SHEET 80

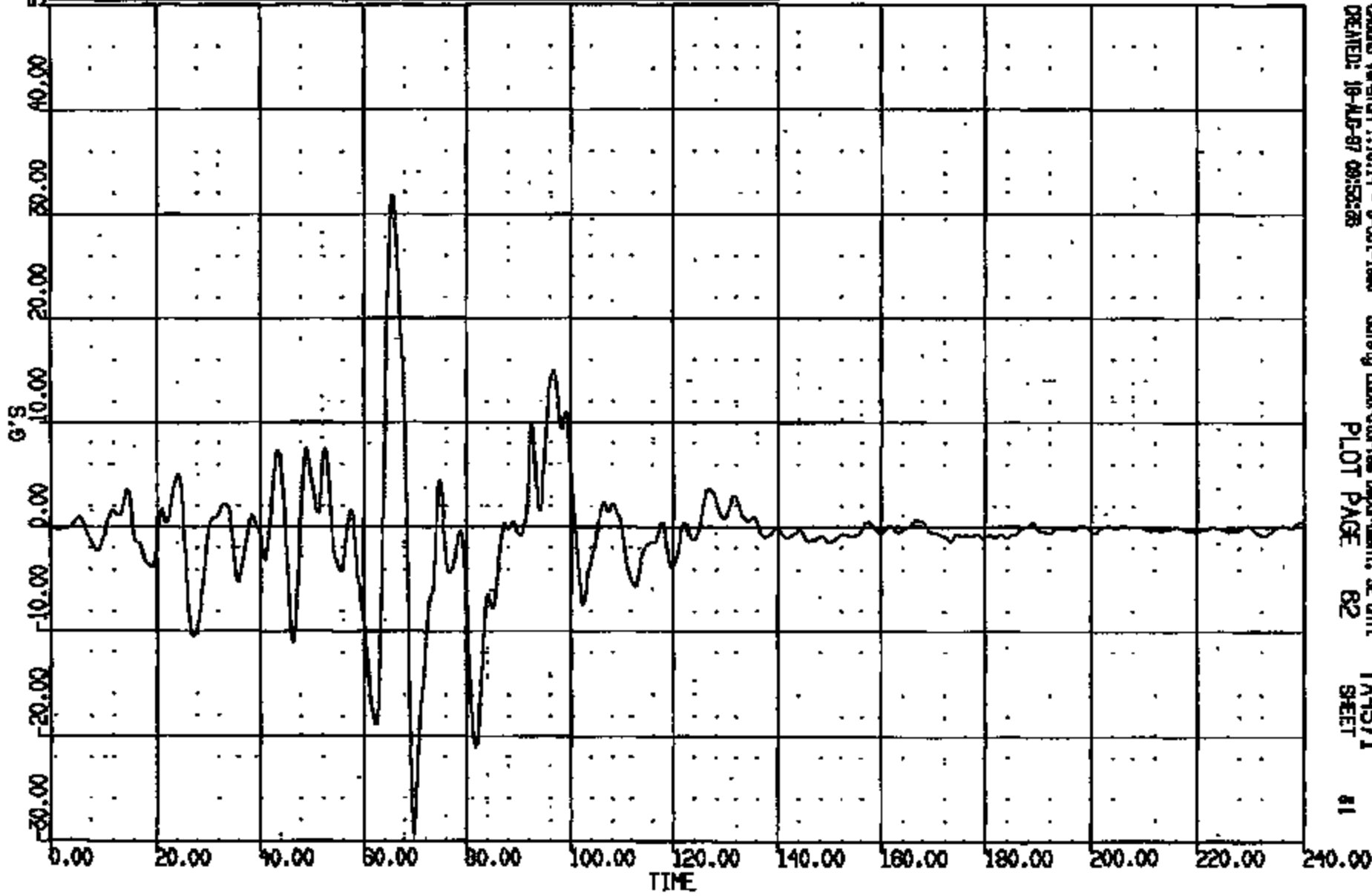
CRTS 0010801



CR R: 10801 TO: TA4571 DATE: 870818 09:18:04  
180X UNKNOWN

(24) CR10801T C/L TNL BETWEEN F/SEATS SH LAT 60C  
MIN = 51.85 at 65.41 NS MAX = -29.72 at 69.76 NS

AXIS 1

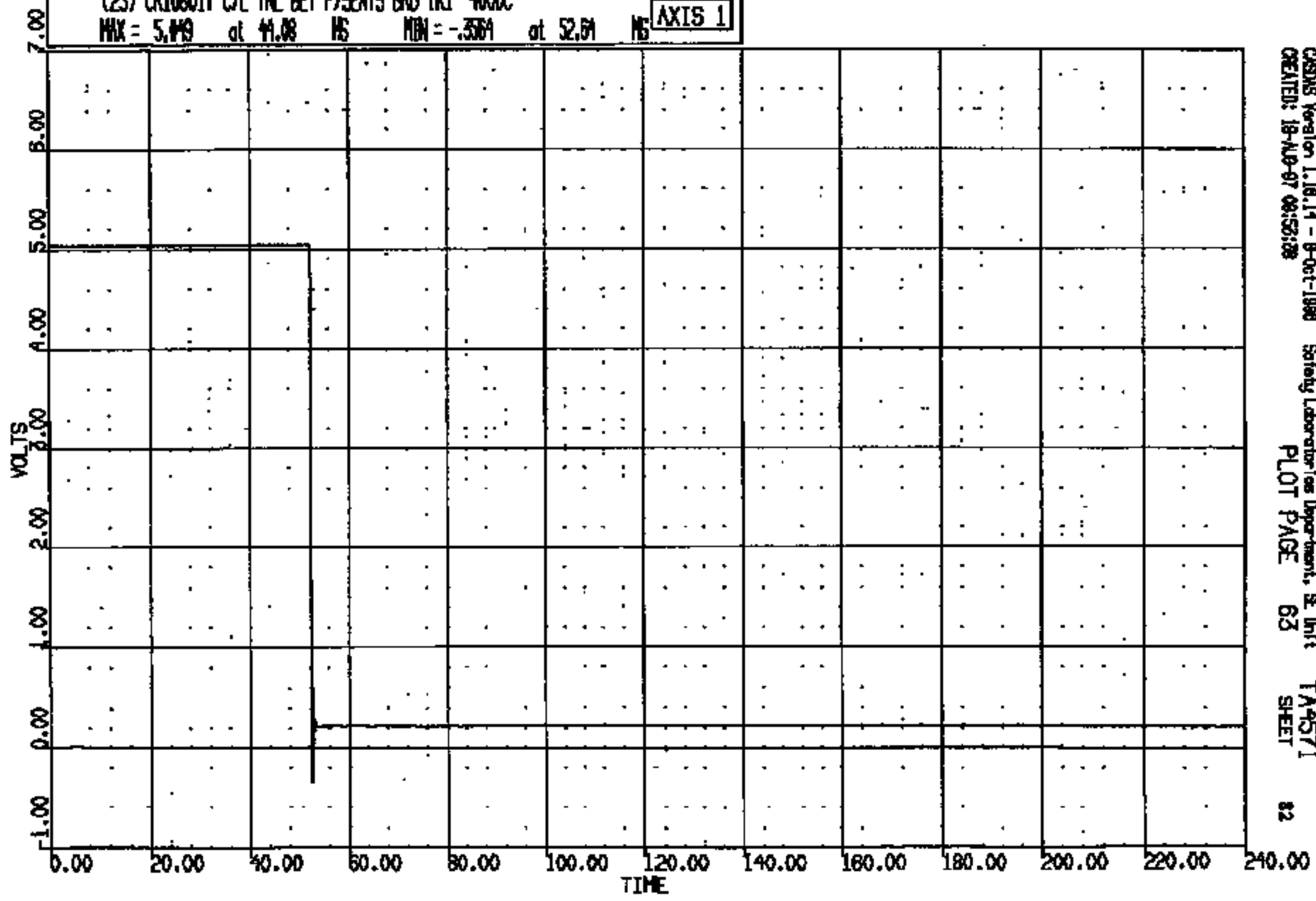


CR10801 Version 1.16.14 - 8-Oct-1988 Safety Laboratories Department, SE Unit TA4571  
CREATED: 18-SEP-87 09:53:38 PLOT PAGE 62 SHEET 81

CR10801

CR R: 10801 TO: TA4571 DATE: 870818 09:18:04  
199X UNKNOWN

(25) CR10801T C/L TNL BET F/SEATS BRD TRJ 400DC  
MAX = 5.49 at 41.08 MS MIN = -.3564 at 52.51 MS AXIS 1



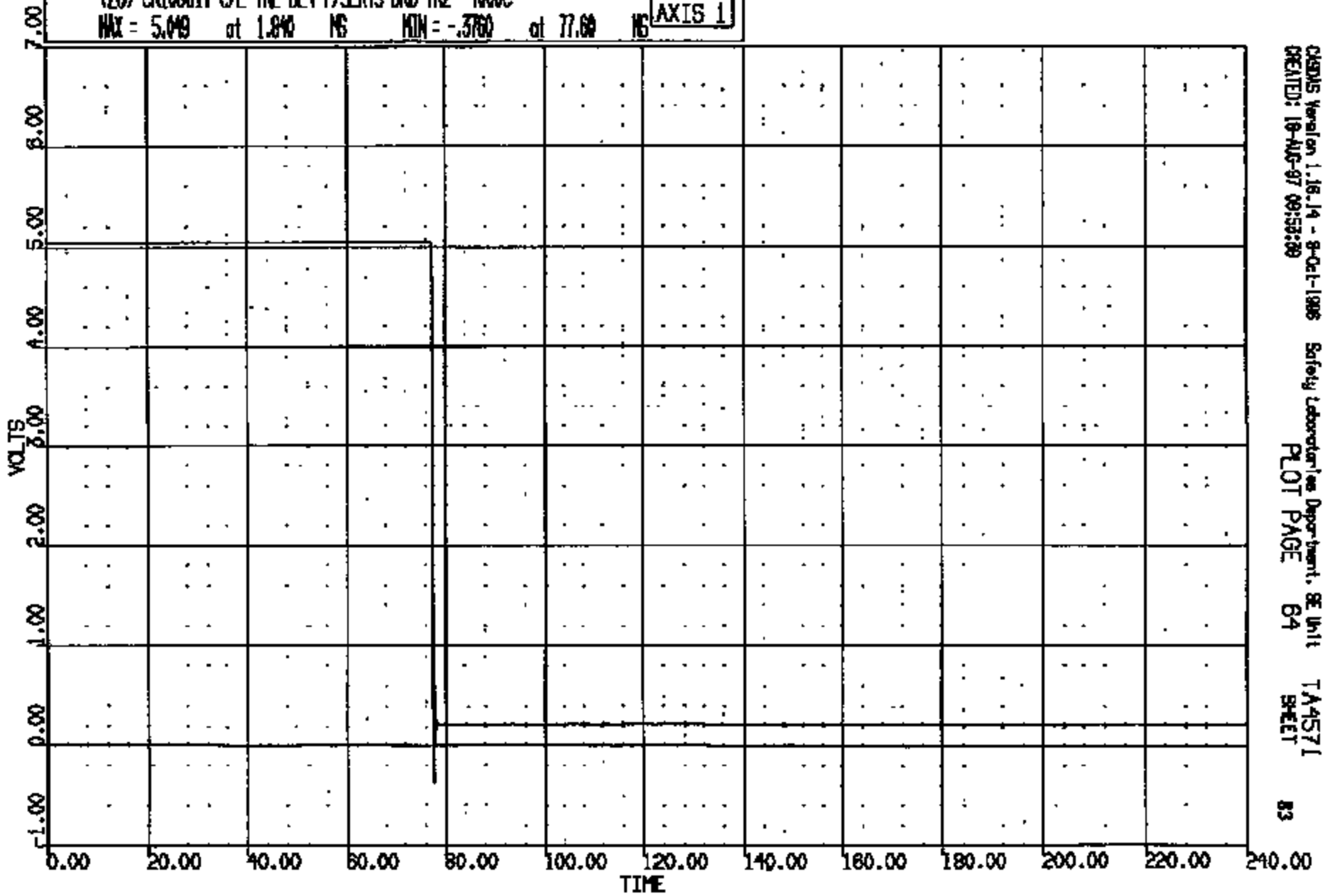
CRTS 0010801

CRSUS Version 1.16.14 - 9-Oct-1990 Safety Laboratories Department, SE Unit TA4571  
CREATED: 18-AUG-87 09:52:28 PLOT PAGE 63 SHEET 82

CR R: 10801 TO: TA4571 DATE: 070818 08:18:04  
199X UNKNOWN

(26) CR10801T C/L TML BET F/SEATS BND TR2 4000C  
MAX = 5.049 at 1.840 NS MIN = -.3760 at 77.60 NS

AXIS 1



CRS015 Version 1.18.14 - 8-Oct-1988 Safety Laboratories Department, SE Unit  
CREATED: 18-AUG-97 09:58:30 PLOT PAGE 64 TA4571 SHEET 83

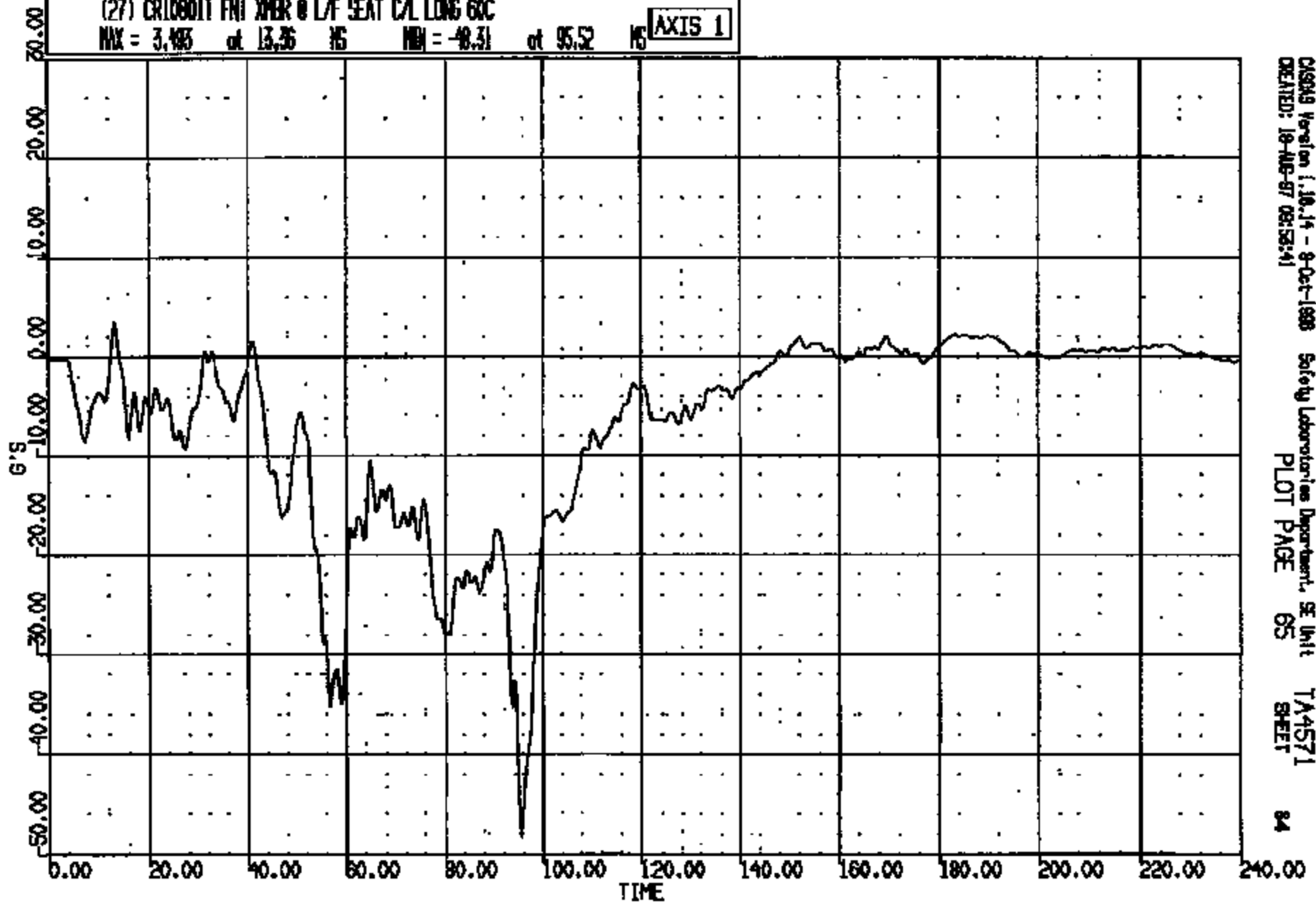
CRIS 0010801

CR R: 10801 TO: TA4571 DATE: 970818 08:18:04  
189X UNKNOWN

(27) CR10801T FMT XMR @ L/F SEAT CAL LONG 60C

MAX = 3.495 at 13.36 MS MIN = -48.31 at 95.52 MS

AXIS 1



CISAS Version 1.10.14 - 8-Oct-1988 Safety Laboratories Department, SE Unit TA4571  
CREATED: 18-AUG-97 08:53:41 PLOT PAGE 05 SHEET 84

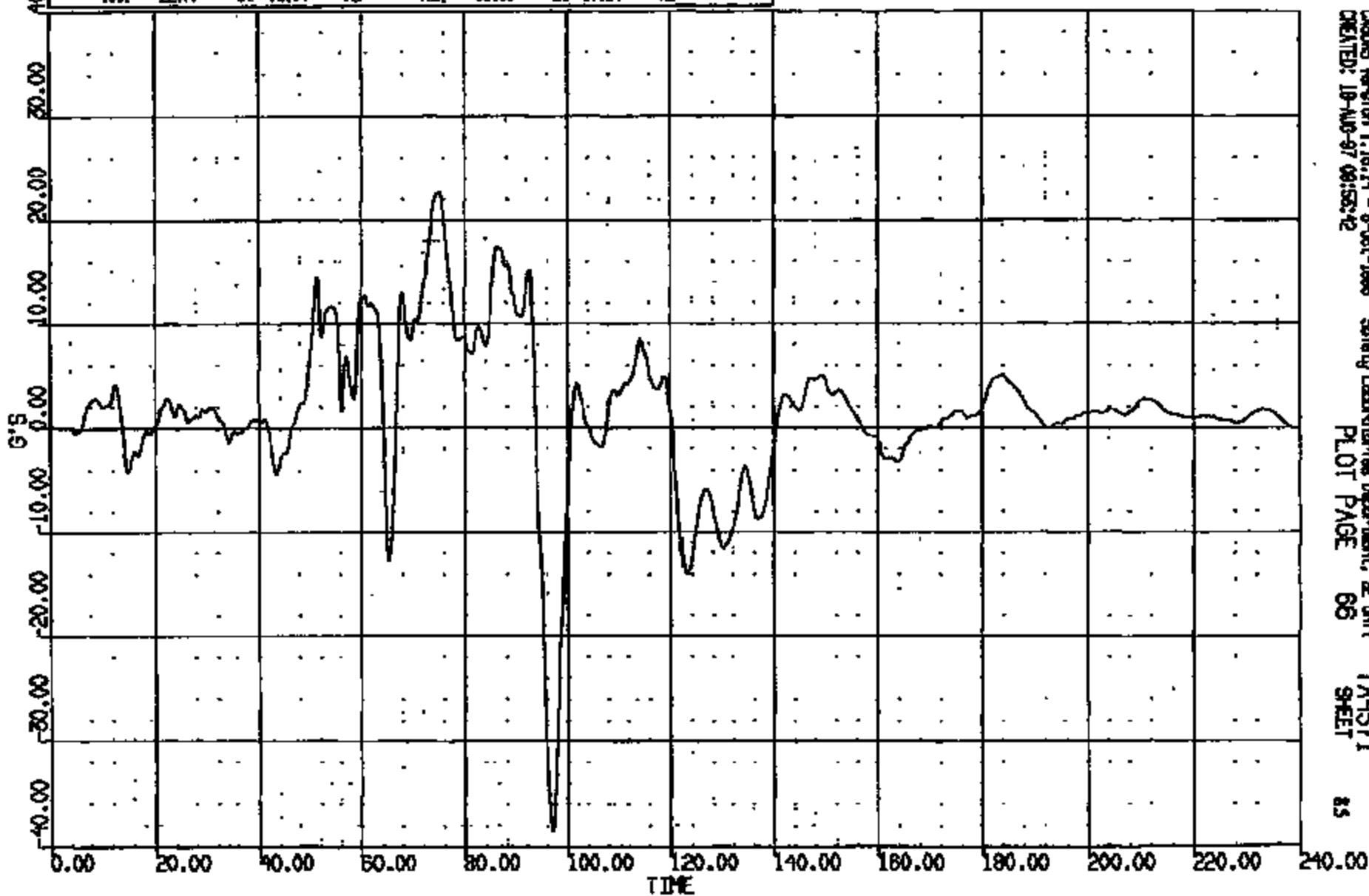
CRIS 0010801

CR R: 10801 TO: TA4571 DATE: 970818 08:18:04  
189X UNKNOWN

(28) CR10801T FMT WNR @ L/F SEAT C/L VERT 60C

MAX = 22.77 at 75.04 MS MIN = -38.08 at 97.04 MS

AXIS 1



CADDS Version 1.16.14 - 9-Oct-1998  
CREATED: 18-AUG-97 08:55:42

Safety Laboratories Department, BE Unit  
PLOT PAGE 66

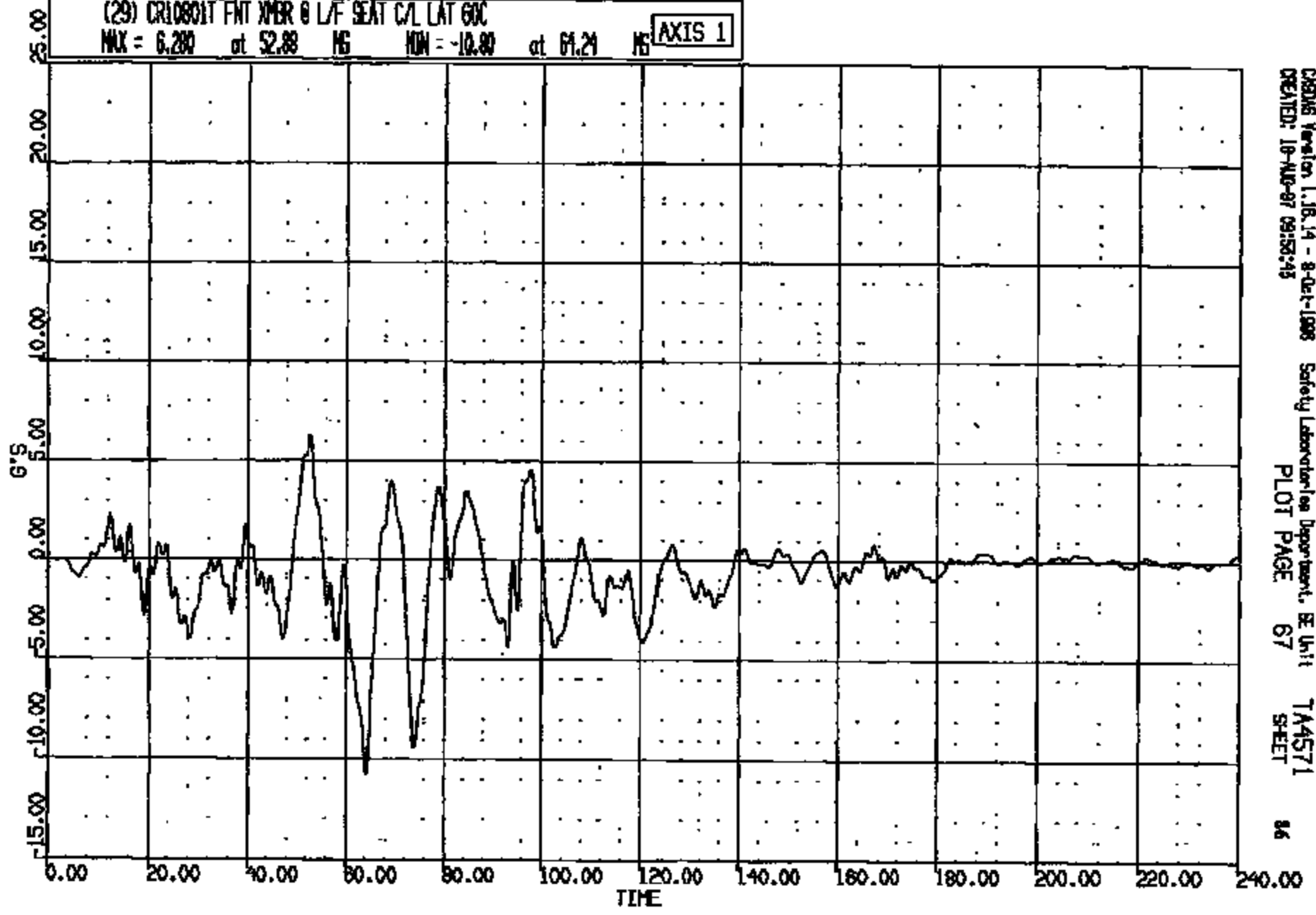
TA4571  
SHEET

85

CRTS 0010801

CR R: 10801 TO: TA4571 DATE: 970818 09:16:04  
189X UNKNOWN

(29) CR10801T FNT XMR @ L/F SEAT C/L LAT GOC  
MAX = 6.200 at 52.88 MS MIN = -10.80 at 61.24 MS **AXIS 1**



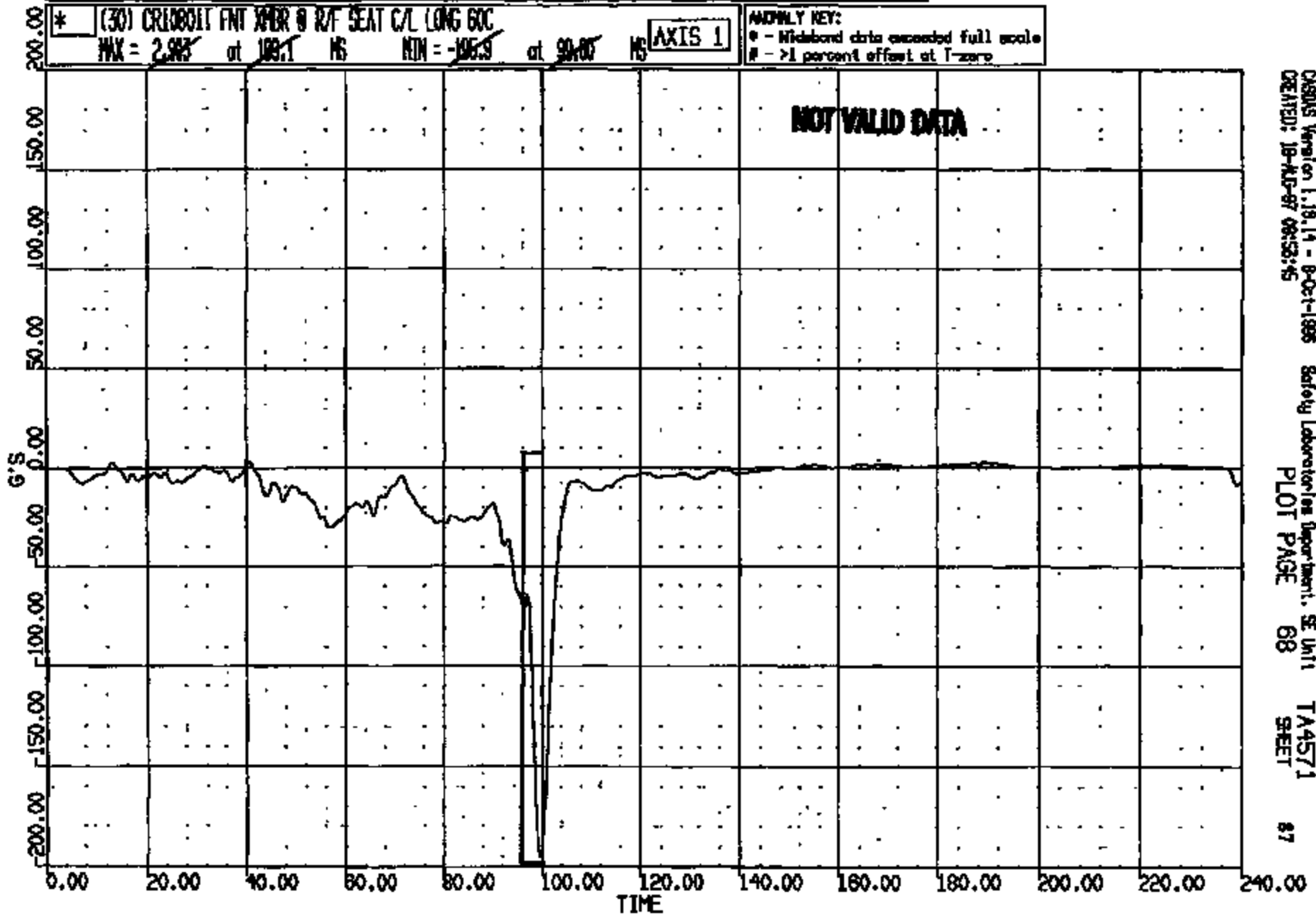
CRS016 Version 1.18.14 - 8-Oct-1998 Safety Laboratories Department, EE Unit  
CREATED: 10-AUG-97 09:55:45 PLOT PAGE 67 TA4571 SHEET 86

CRIS 0010801

CR R: 10801 TO: TA4571 DATE: 970918 09:18:04  
199X UNKNOWN

\* (30) CR10801T FNT XMR @ R/F SEAT C/L LONG 60C  
MAX = 2.983 at 109.1 MS MIN = -106.9 at 99.00 MS **AXIS 1**

ADDITIONAL KEY:  
\* - Midband data exceeded full scale  
# - >1 percent offset at T-zero



CASINS Version 1.19.14 - 8-Oct-1995 Safety Laboratories Department, SE Unit TA4571  
CREATED: 18-SEP-97 09:53:45 PLOT PAGE 68 SHEET 87

CRITS 0010801

CR R: 10801 TO: TA4571 DATE: 870818 00:18:04  
188X UNKNOWN

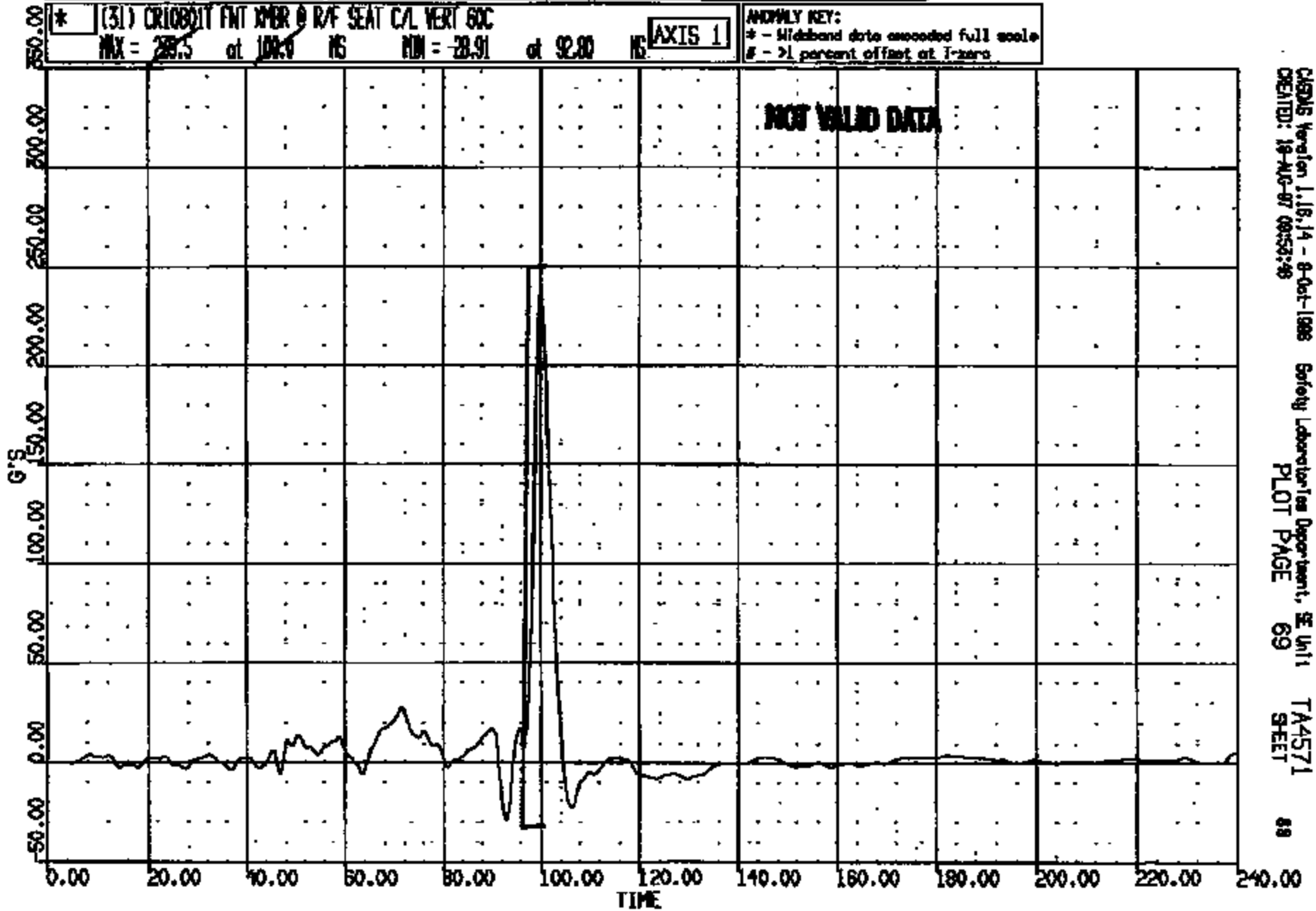
\* (31) CR10801 FMT XMR @ R/F SEAT C/L VERT 60C

MAX = 289.5 at 104.9 NS MIN = -28.91 at 92.80 NS

AXIS 1

ANOMLY KEY:

\* - Midband data exceeded full scale  
# - >1 percent offset at T-zero



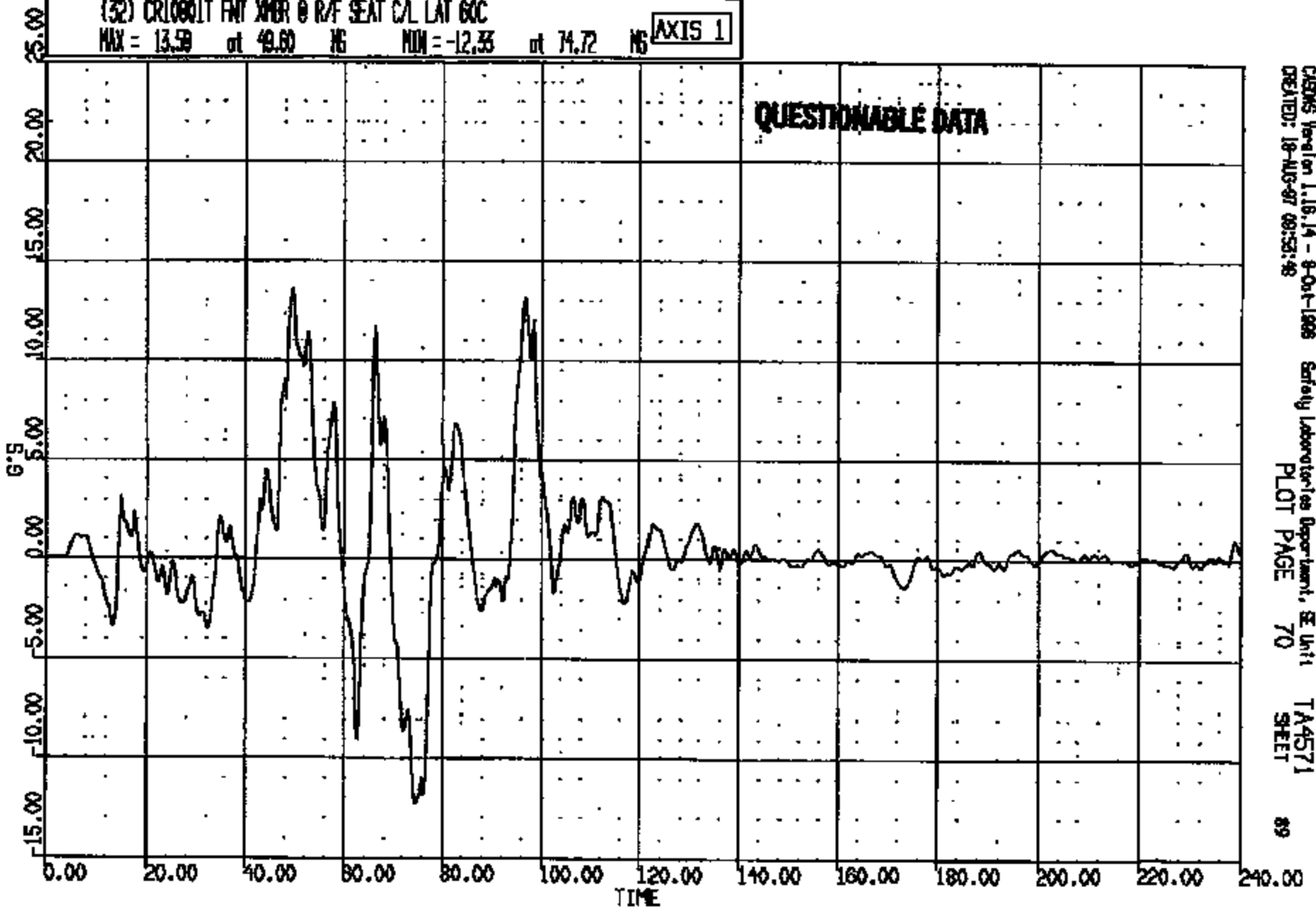
CRIS 0010801

CASAS Version 1.16.14 - 8-Oct-1988 Safety Laboratories Department, SE Unit  
CREATED: 18-AUG-87 00:15:48 PLOT PAGE 69 TA4571 SHEET 89



CR R: 10801 TO: TA4571 DATE: 970818 09:18:04  
189X UNKNOWN

(32) CR1000IT FMT XMR @ R/F SEAT CAL LAT 60C  
MAX = 13.59 at 49.60 NS MIN = -12.33 at 74.72 NS **AXIS 1**

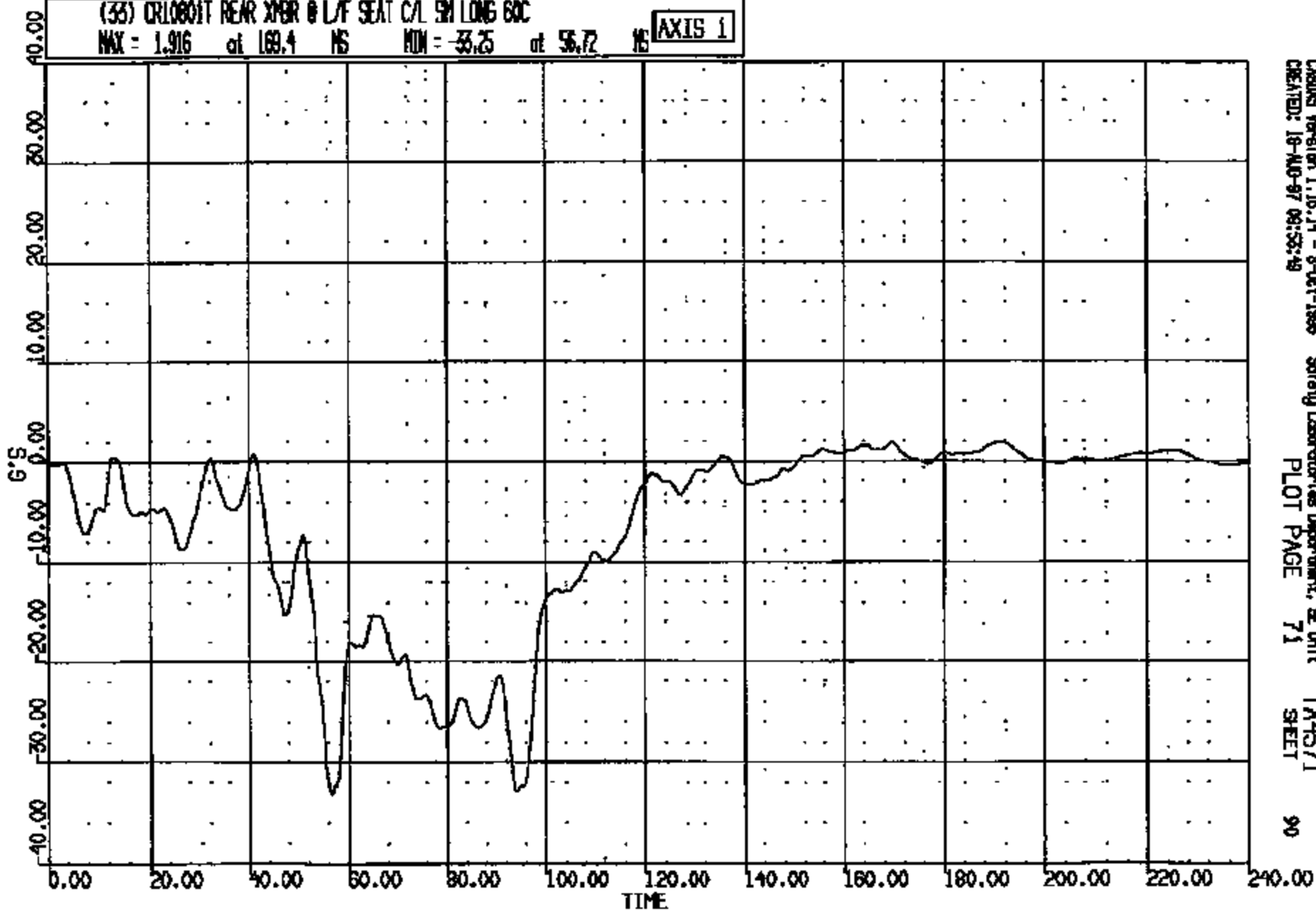


CREWS Version 1.16.14 - 8-Oct-1998 Serials Laboratories Department, SE Unit  
CREATED: 18-AUG-97 09:53:48 PLOT PAGE 70 TA4571 SHEET 89

CRTS 0010801

CR R: 10801 TO: TA4571 DATE: 870818 08:18:04  
198X UNKNOWN

(33) CR10801T REAR XMR @ L/F SEAT C/L 5M LONG 60C  
MAX = 1.916 at 169.4 MS MIN = -36.25 at 56.72 MS **AXIS 1**



CRASH Version 1.16.14 - 8-Oct-1988  
CREATED: 18-AUG-87 09:55:49

Safety Laboratories Department, SE Unit  
PLOT PAGE 71

TA4571  
SHEET

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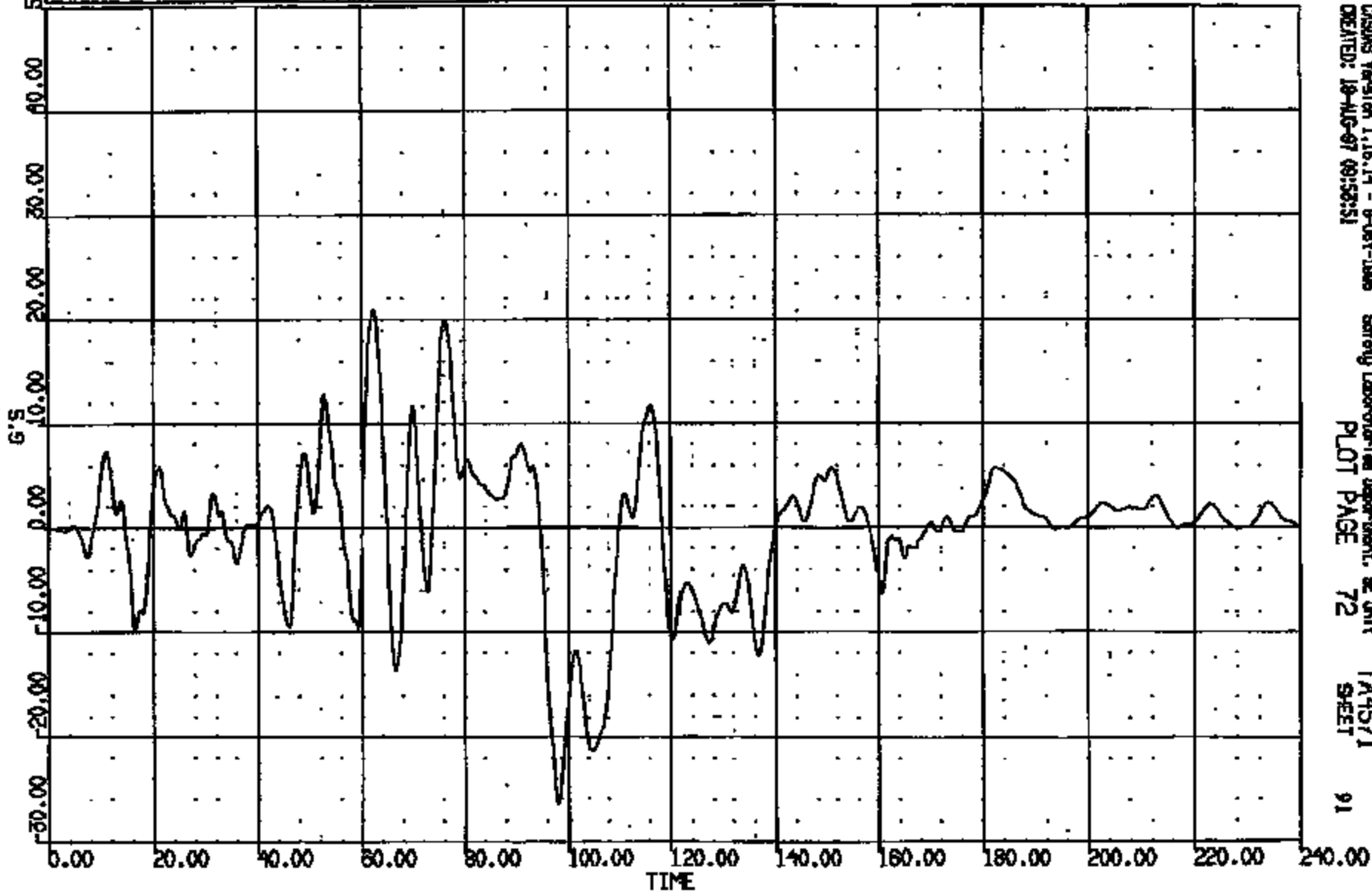
CRTS 0010801

CR #: 10801 TO: TA4571 DATE: 970818 09:18:04  
100X UNKNOWN

(34) CR10801T REAR XMR @ LF SEAT C/L SH VERT 60C

MAX = 20.95 at 62.48 MS MIN = -26.41 at 98.00 MS

AXIS 1



CASIMS Version 1.16.14 - 8-Oct-1998  
CREATED: 18-AUG-97 09:52:51

Safety Laboratories Department, SE Unit  
PLOT PAGE 72

TA4571  
SHEET

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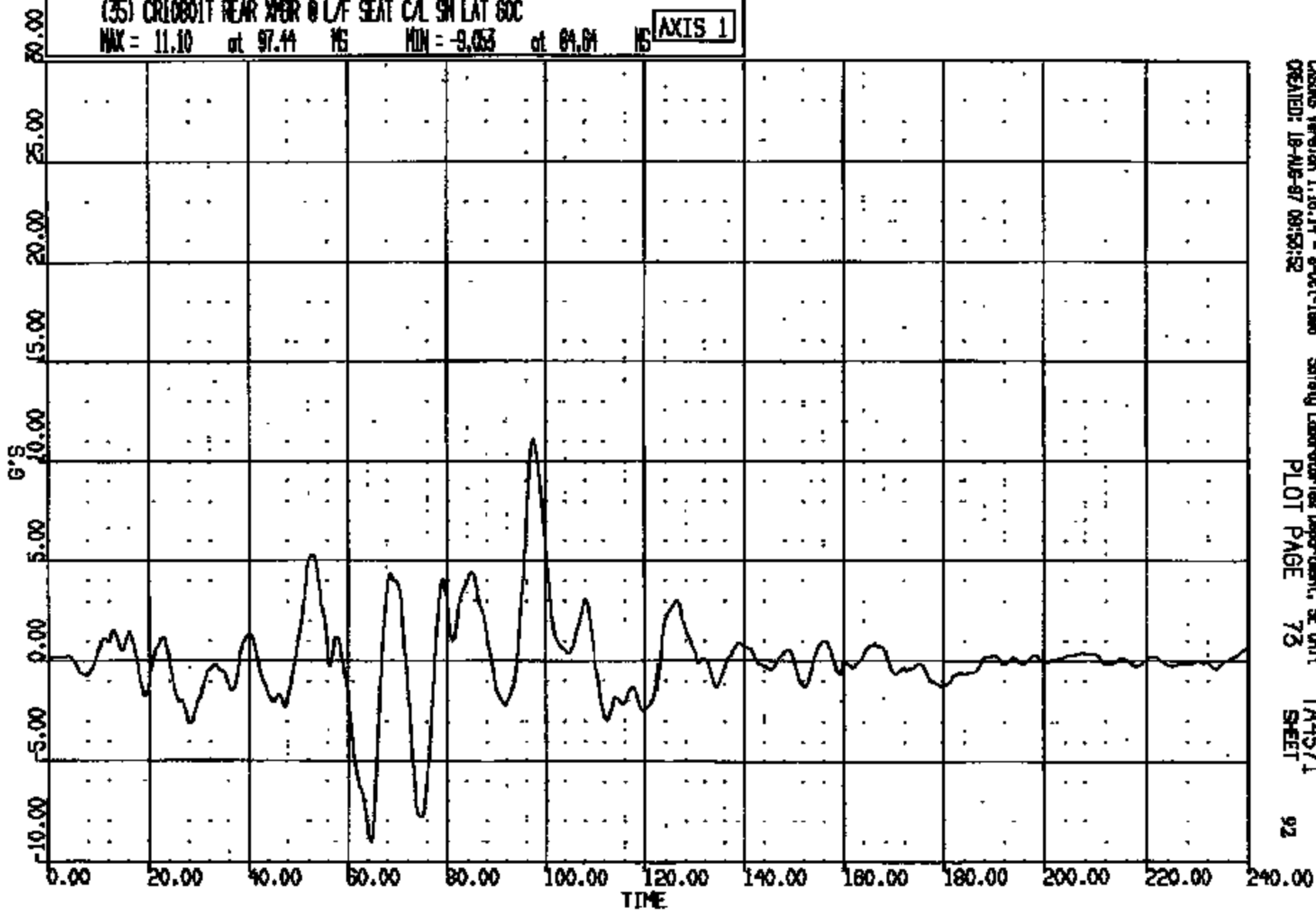
CRITS 0010801

CR R: 10601 TO: TA4571 DATE: 970818 09:18:04  
199X UNKNOWN

(35) CR10801T REAR XPER @ L/F SEAT CAL SN LAT 60C

MAX = 11.10 at 97.44 MS MIN = -9.033 at 64.04 MS

AXIS 1



CRS08 Version 1.16.14 - 8-Oct-1998  
CREATED: 18-AUG-97 09:52:52

Safety Laboratories Department, BE Unit  
PLOT PAGE 73

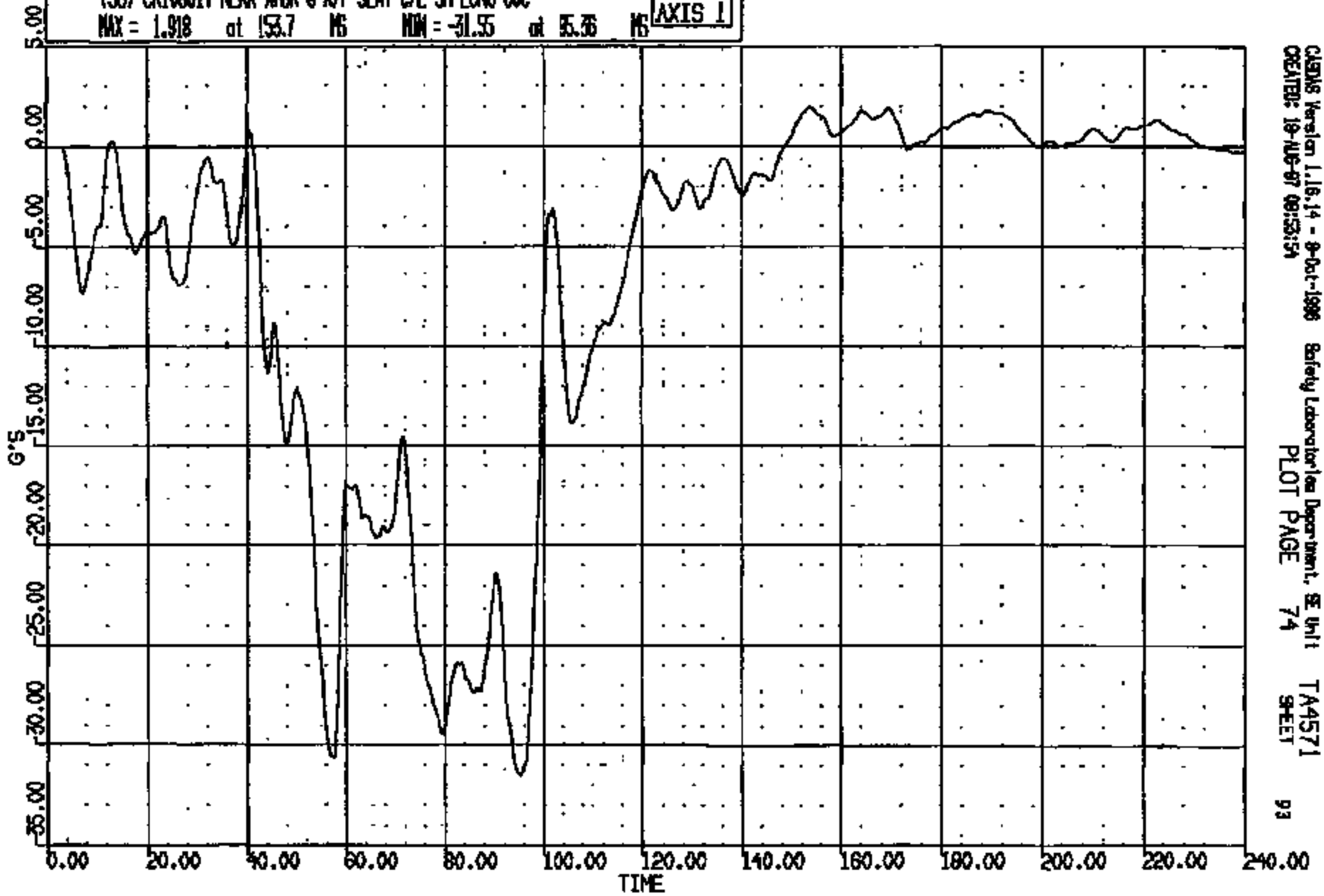
TA4571  
SHEET

92

CRIS 0010801

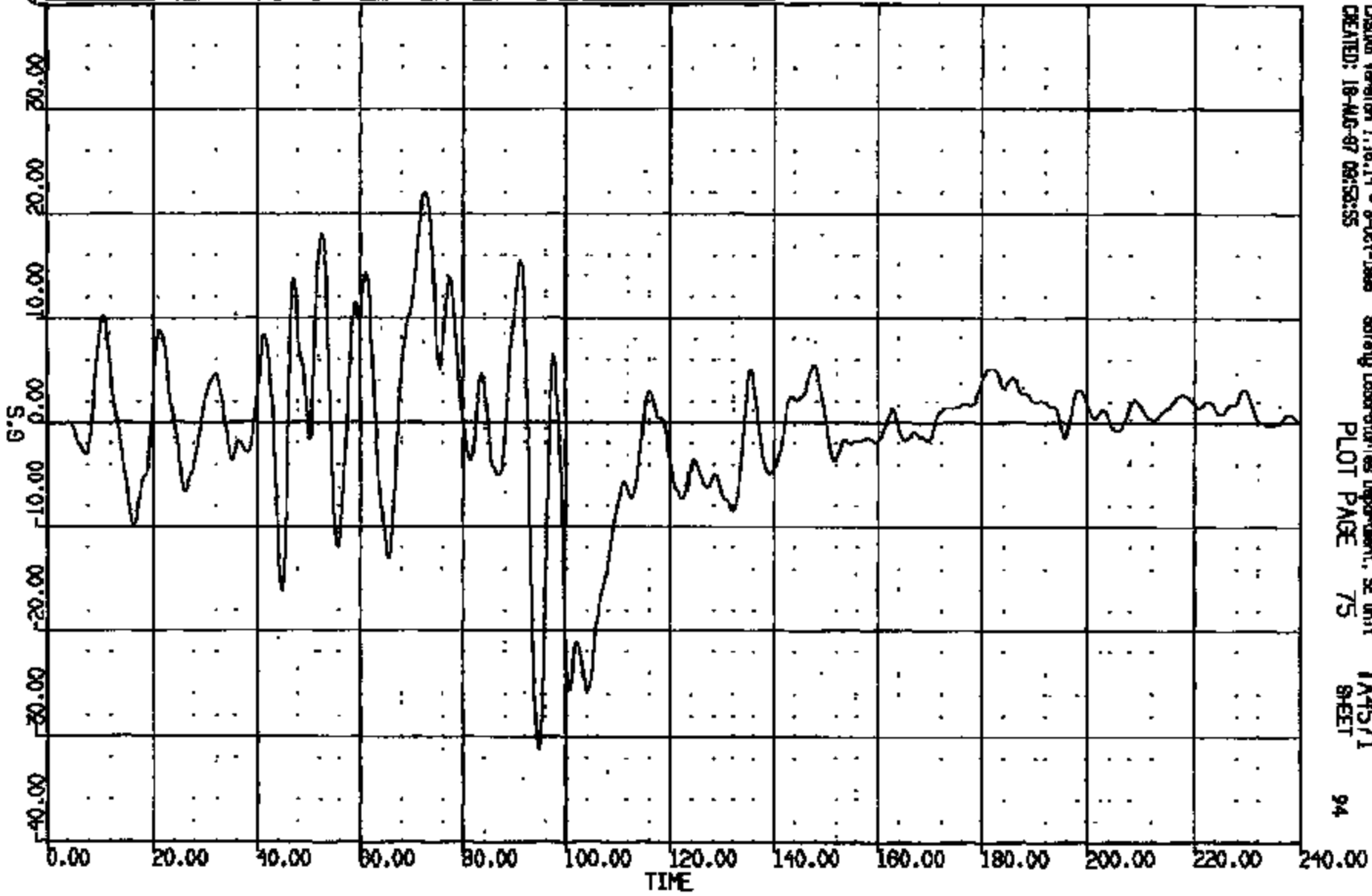
CR R: 10801 TO: TA4571 DATE: 870818 08:18:04  
189X UNKNOWN

(36) CR10801T REAR XMR @ R/F SEAT C/L SH LONG GOC  
MAX = 1.918 at 153.7 MS MIN = -31.55 at 85.36 MS **AXIS 1**



CR R: 10801 TO: TA4571 DATE: 870818 08:16:04  
189X UNKNOWN

(37) CR10801T REAR XMR @ R/F SEAT CAL SM VERT GOC  
MAX = 22.01 at 72.32 MS MIN = -31.26 at 94.61 MS **AXIS 1**



CRS016 Version 1.18.14 - 8-Oct-1985 Safety Laboratories Department, SE Unit TA4571  
CREATED: 18-AUG-87 08:58:55 PLOT PAGE 75 SHEET 94

CRIS 0010801

CR R: 10801 TO: TA4571 DATE: 970818 09:18:04  
180X UNKNOWN

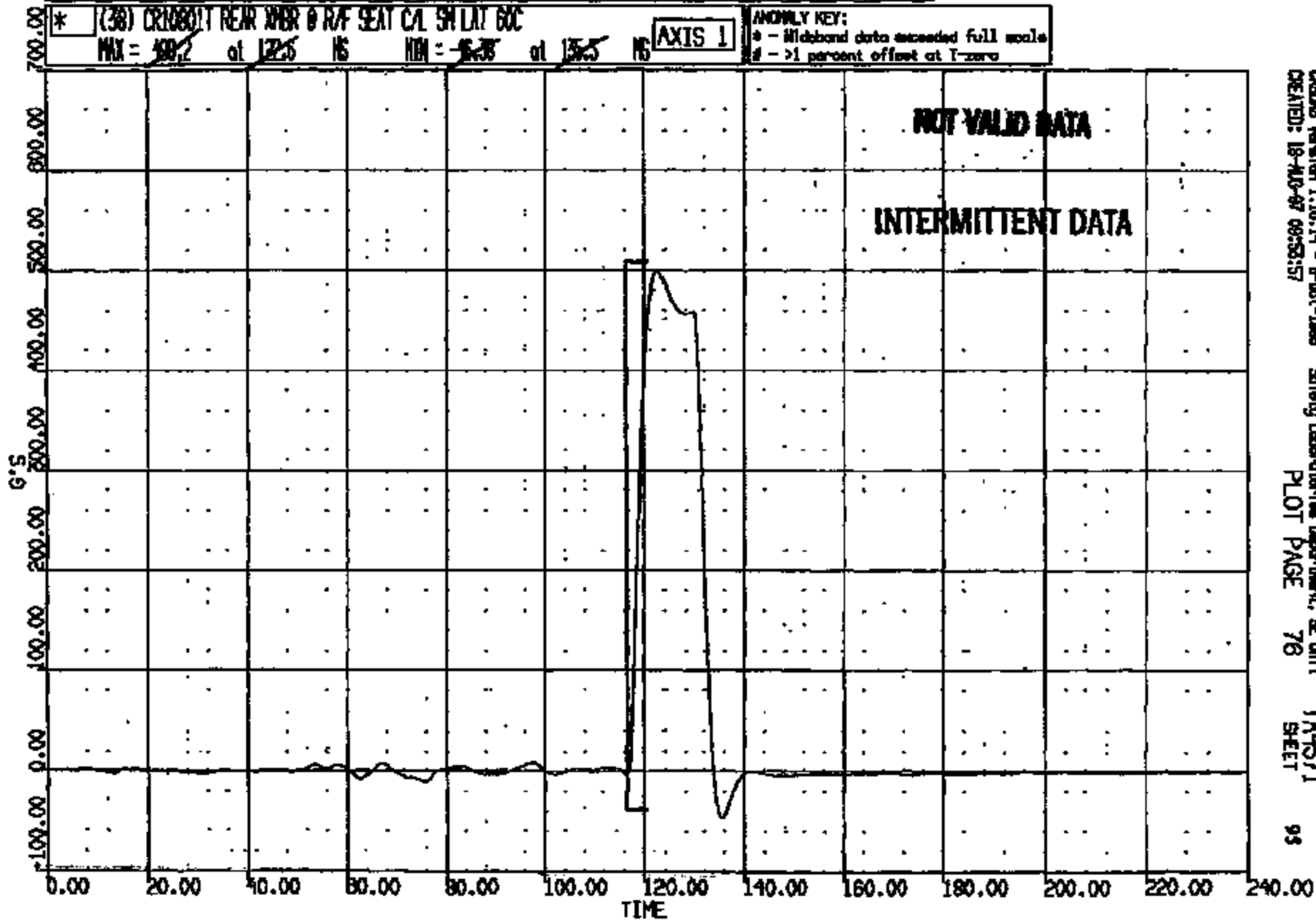
\* (38) CR10801T REAR XMR @ R/F SEAT CAL SH LAT 60C

MAX = 40.2 at 122.5 MS MIN = -5.38 at 135.5 MS

AXIS 1

ANOMLY KEY:

\* - Midband data exceeded full scale  
# - >1 percent offset at T-zero



CRS018 Version 1.16.14 - B-001-1808  
CREATED: 18-MAR-97 09:53:57

Safety Laboratories Department, GE Unit  
PLOT PAGE 78

TA4571  
SHEET

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CRIS 0010801

CR R: 10901 TO: TA4571 DATE: 970818 09:18:04  
199X UNKNOWN

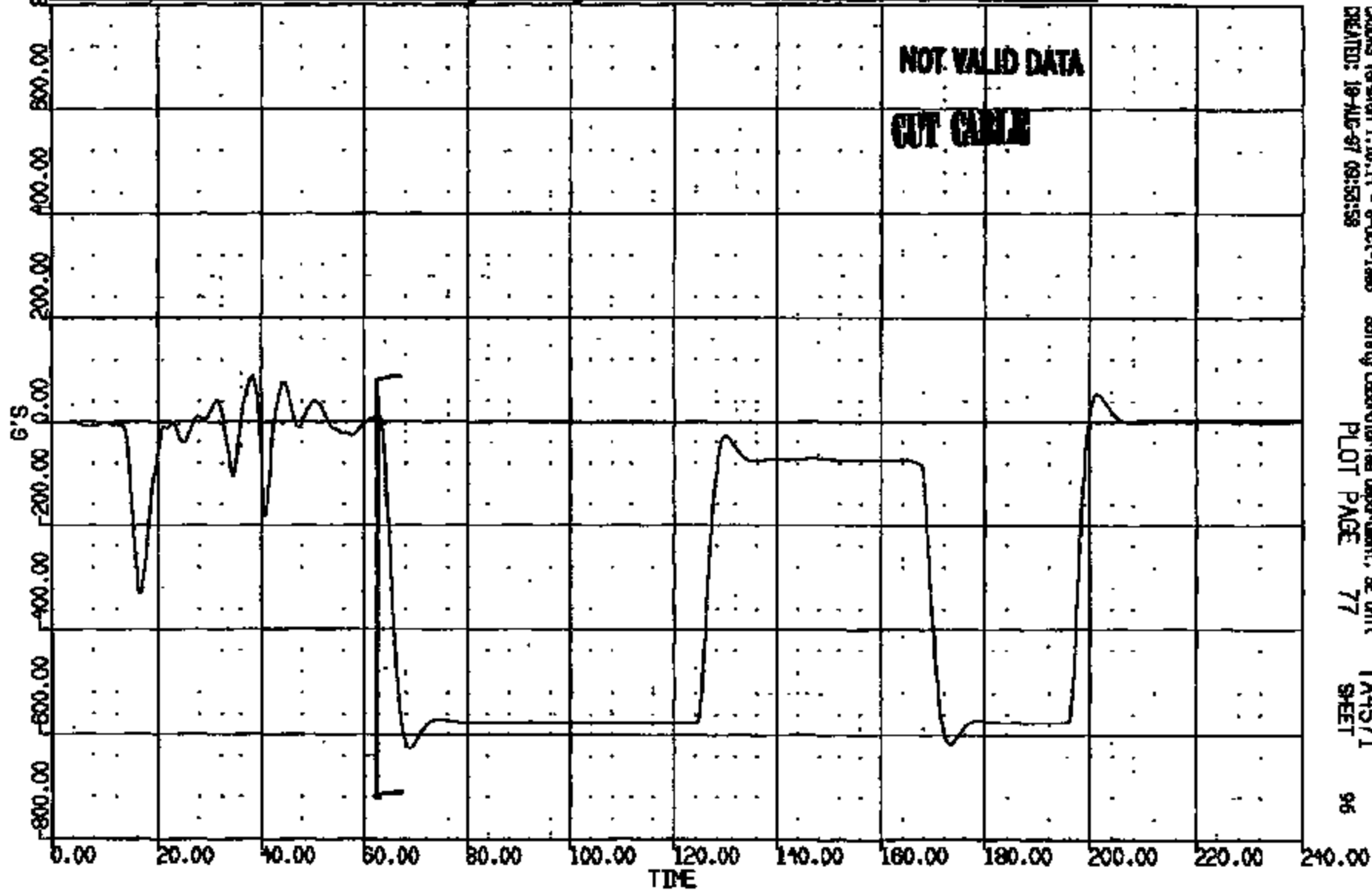
\* (39) CR1000IT C/RAD UP FRT SH LONG 60C

MAX = 88.97 at 38.24 NS MIN = ~~55.2~~ at ~~38.72~~ NS

AXIS 1

ANOMLY KEY:

\* - Nideband data exceeded full scale  
# - >1 percent offset of T-zero

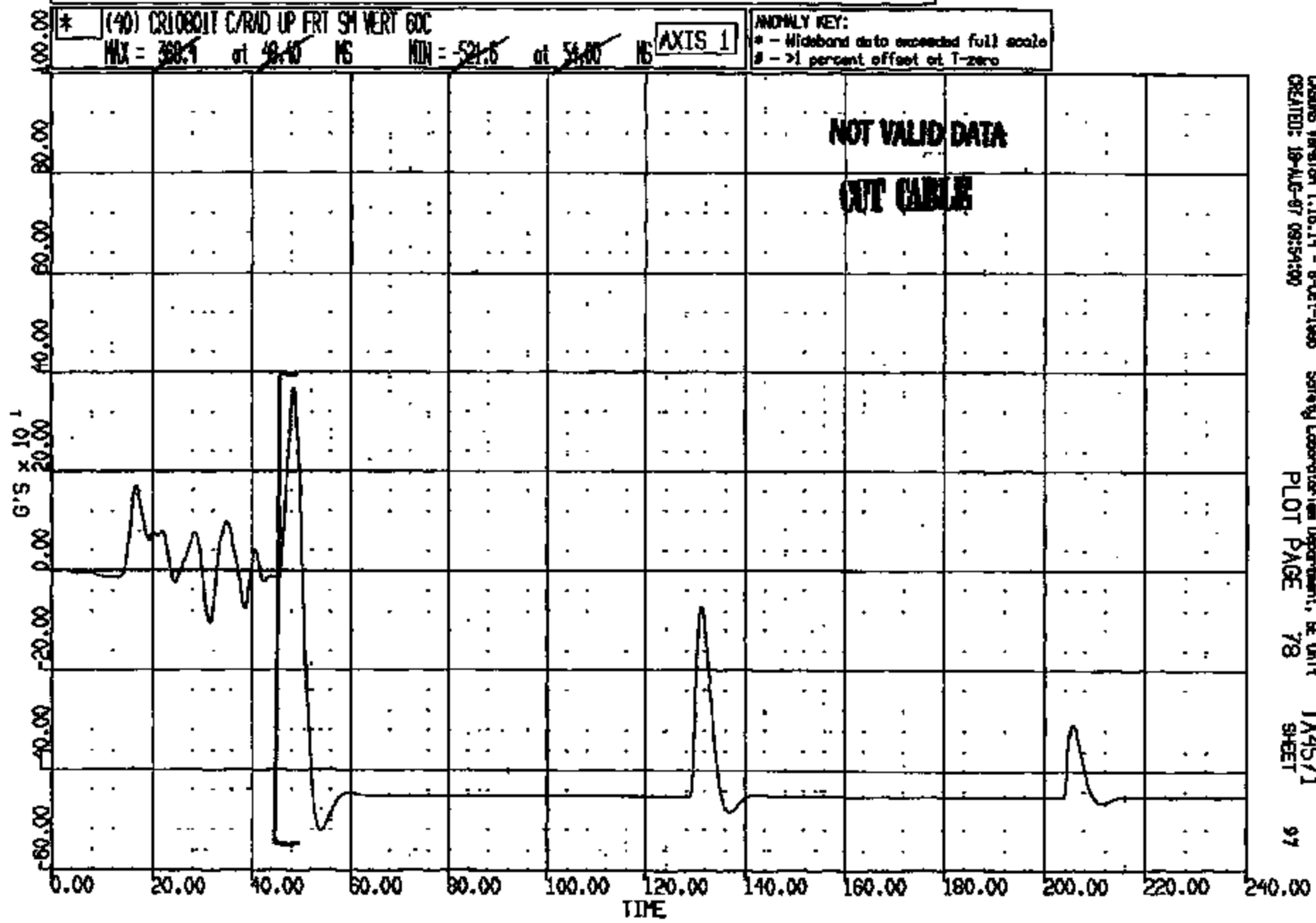


CRDS Version 1.16.14 - 8-Oct-1995 Safety Laboratories Department, SE Unit TA4571  
CREATED: 18-AUG-97 09:58:58 PLOT PAGE 77 SHEET 96

CRIS 0010901



CR R: 10801 TO: TA4571 DATE: 870818 08:18:04  
199X UNKNOWN



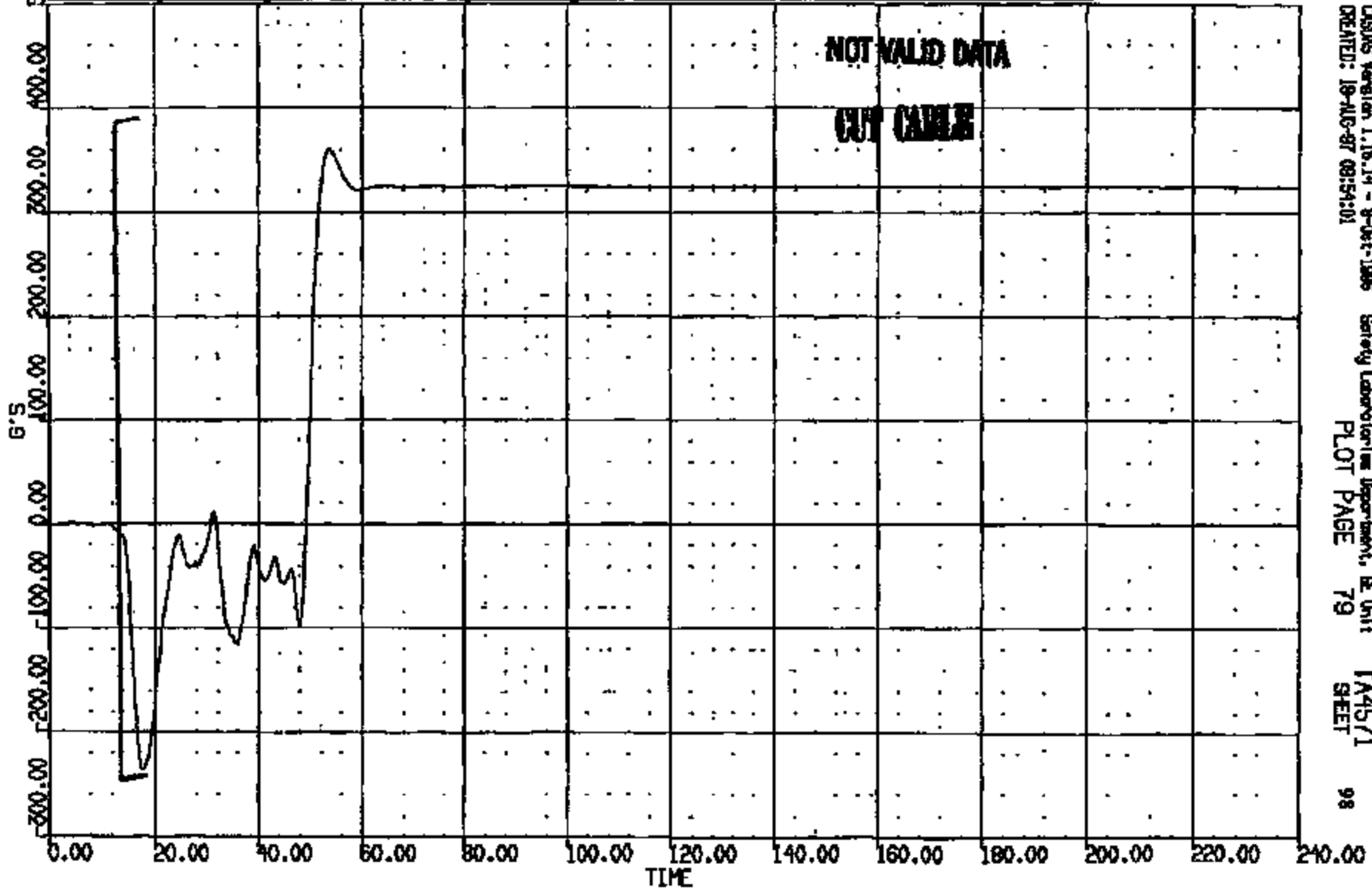
CASINS Version 1.18.14 - 8-04-1-1998 Safety Laboratory/Inn Department, BE Unit  
CREATED: 18-AUG-87 08:34:30 PLOT PAGE 78 SHEET 97

CRIS 0010801

OR R: 10801 TO: TA4571 DATE: 870818 09:18:04  
188X UNKNOWN

\* (41) CR10801T C/RND UP FRT SH LAT 60C  
MAX = 380.0 at 53.75 MS MIN = -237.0 at 17.75 MS **AXIS 1**

ANOMALY KEY:  
\* - Microband data exceeded full scale  
# - >1 percent effect at 1-zero

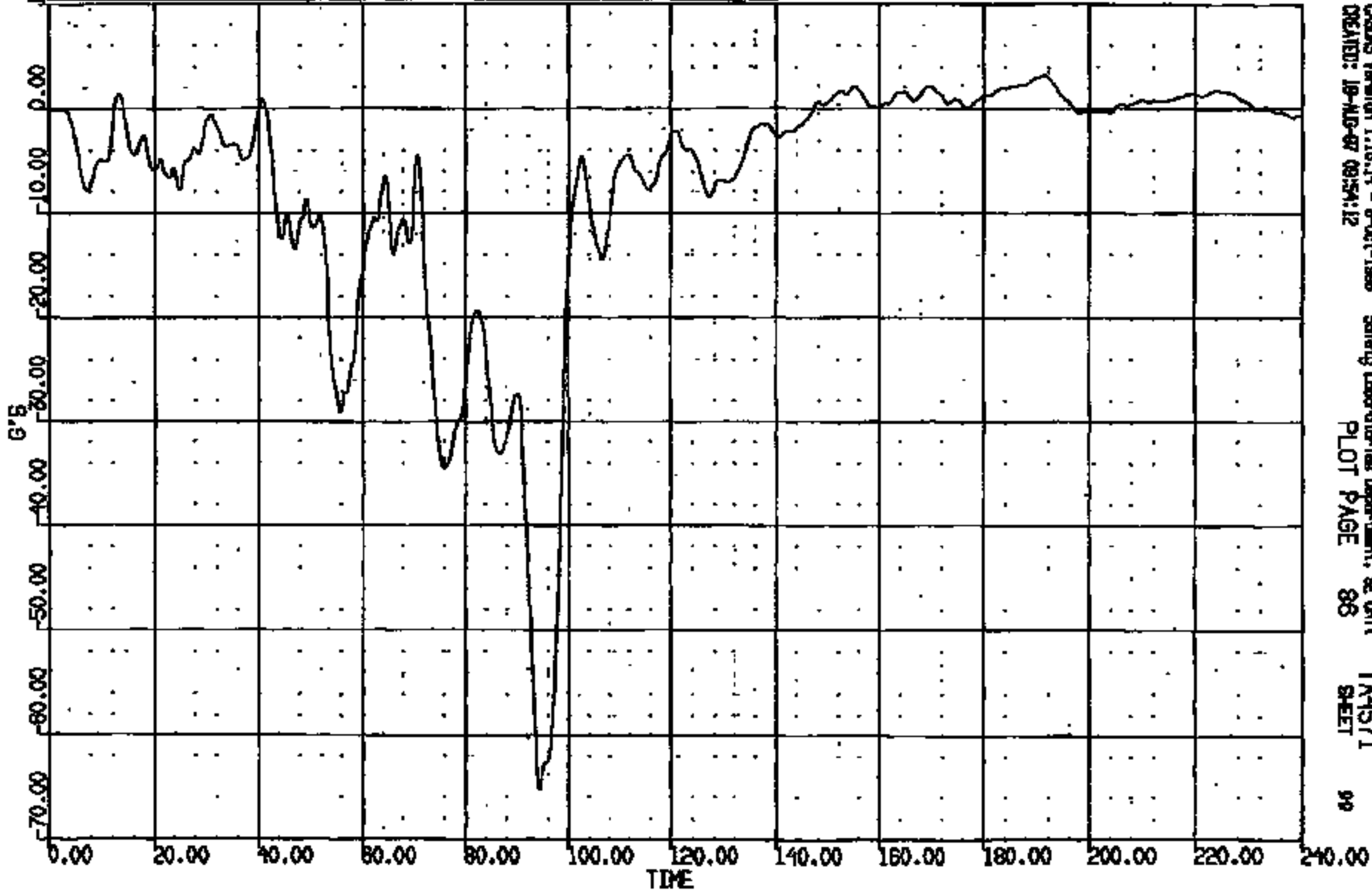


CASUS Version 1.16.14 - 8-Oct-1985 Safety Laboratory Department, E Unit TA4571  
CREATED: 18-AUG-87 08:54:01 PLOT PAGE 79 SHEET 98

CRIS 0010801

CR #: 10801 TO: TA4571 DATE: 870818 09:18:04  
199X UNKNOWN

(48) DRIBBLT C/L TNL #5 SH LONG 60C  
MAX = 3.121 at 191.3 MS MIN = -65.46 at 91.32 MS **AXIS 1**

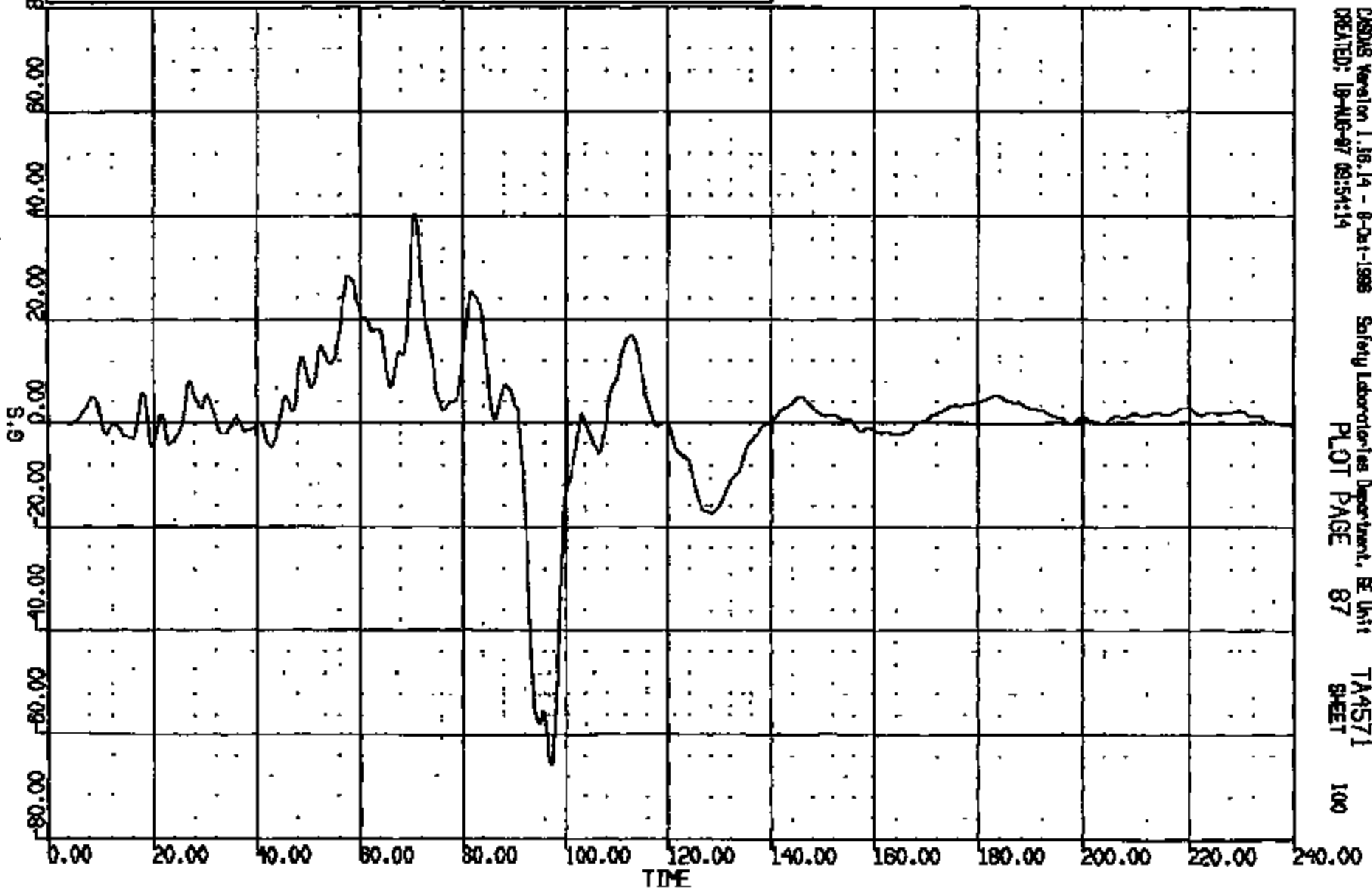


CRTS Version 1.18.14 - 8-Oct-1988 Safety Laboratories Department, SE Unit TA4571  
CREATED: 18-AUG-87 09:54:12 PLOT PAGE 88 SHEET 99

CRTS 0010801

CR R: 10801 TO: TA4571 DATE: 870818 09:15:04  
196X UNKNOWN

(49) CR10801T CAL. IN. #5 SH VERT 68C  
MAX = 40.51 at 70.72 MS MIN = -66.01 at 97.20 MS **AXIS 1**



CRS018 Version 1.18.14 - 8-Oct-1988 Safety Laboratories Department, BE Unit  
CREATED: LP-NIS-97 09:54:14 PLOT PAGE 87 TA4571 SHEET 100

CRIS 0010801

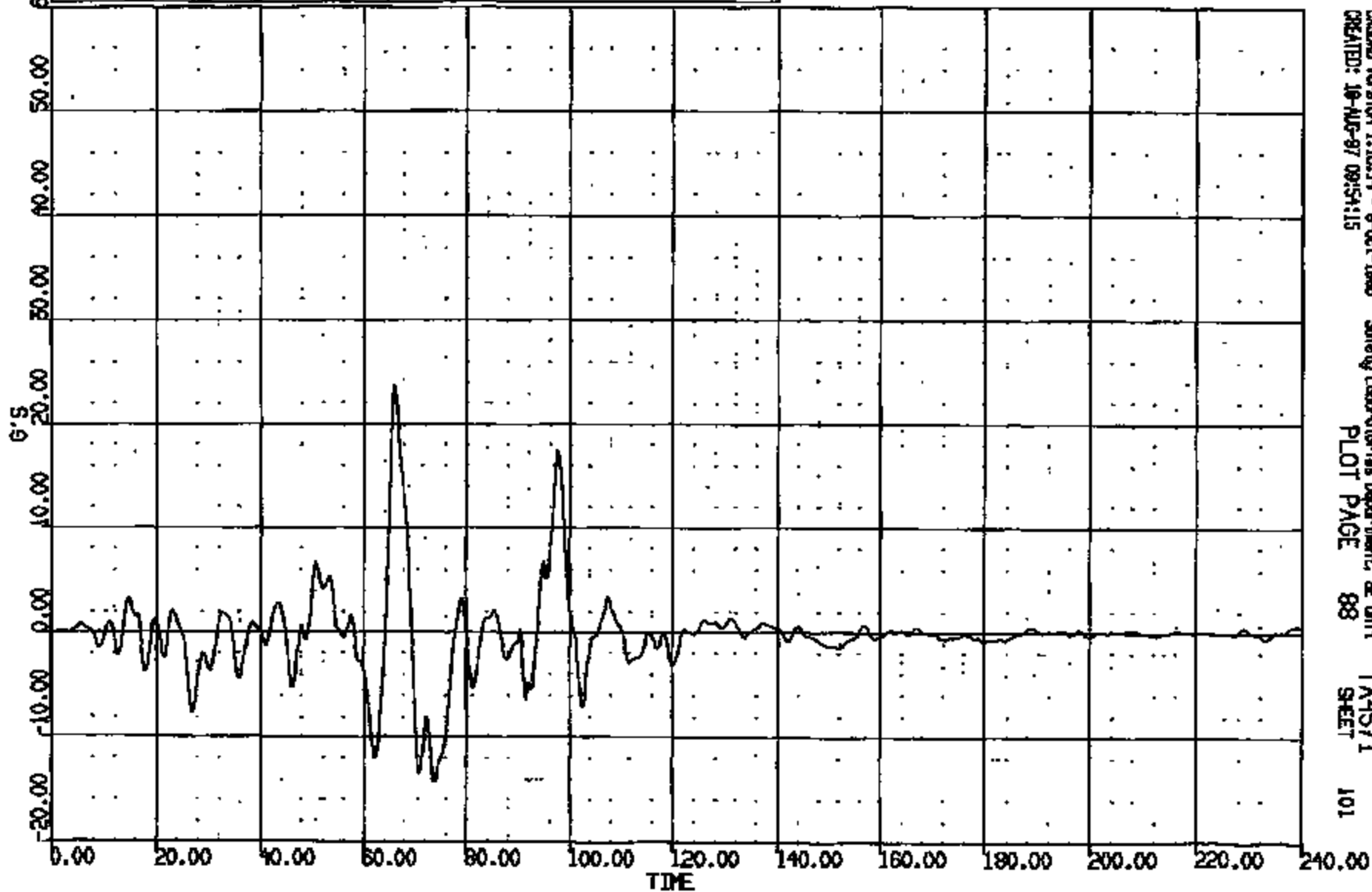
CR R: 10801 TO: TA4571 DATE: 870818 09:16:04

199X UNKNOWN

(50) CR10801T CAL YNL #5 SH LAT 60C

MAX = 23.75 at 66.16 MS MIN = -14.36 at 73.76 MS

AXIS 1



CRS05 Version 1.16.14 - 9 Oct 1988  
CREATED: 16-AUG-87 09:54:15

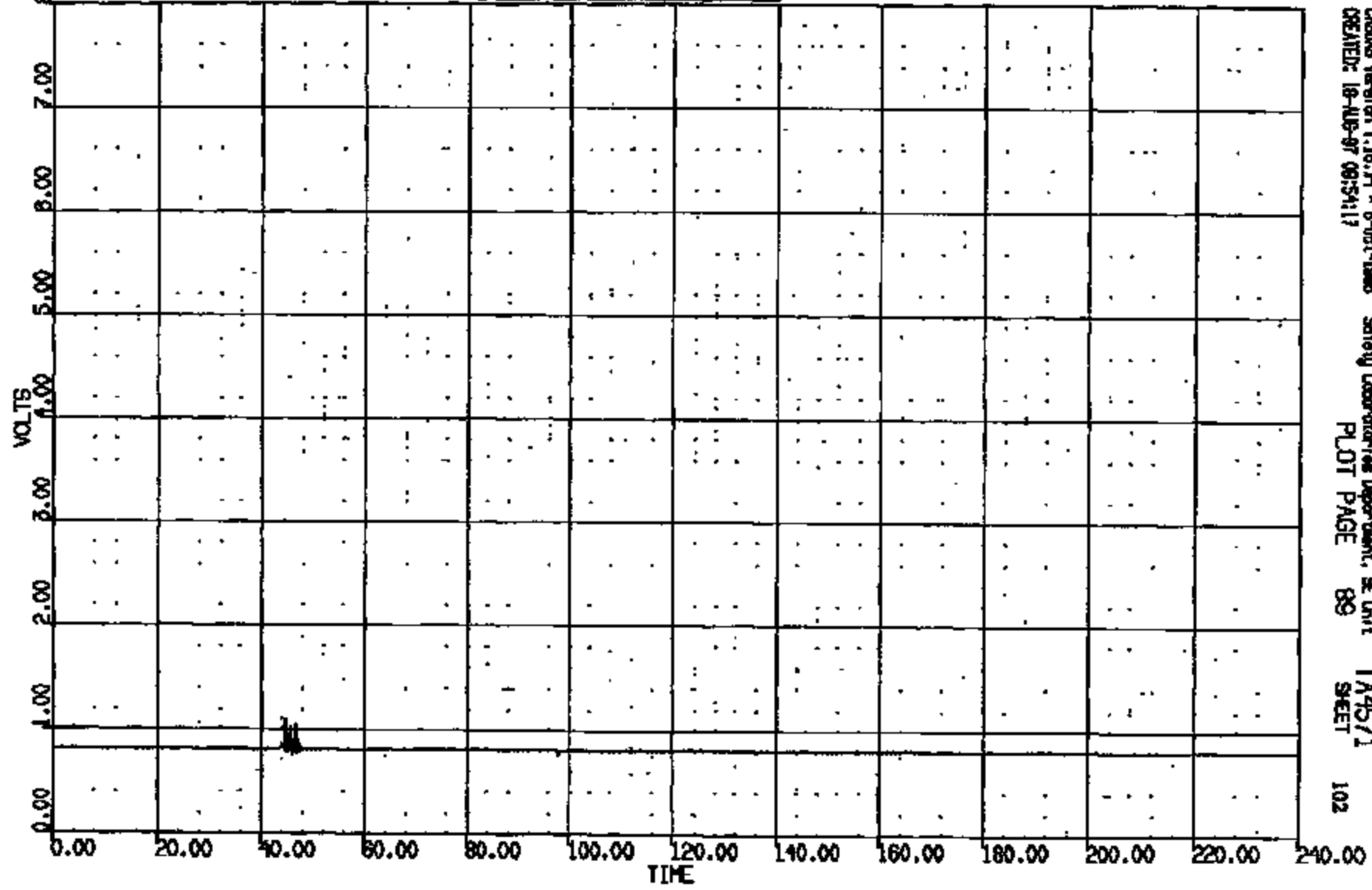
Safety Laboratories Department, BE Unit  
PLOT PAGE 88

TA4571  
SHEET 101

CRTS 0010801

CR R: 10801 TO: TA4571 DATE: 970818 09:18:04  
199X UNKNOWN

(S1) CR10801T C/L TML #5 BOSCH AWL 400C  
MAX = 1.004 of 44.64 MS MIN = 0.7588 of 98.00 MS **AXIS 1**



CRSUS Verelton 1.16.14 - 8-01-1998 Safety Laboratories Department, EE Unit TA4571  
CREATED: 18-AUG-97 09:54:17 PLOT PAGE 89 SHEET 102

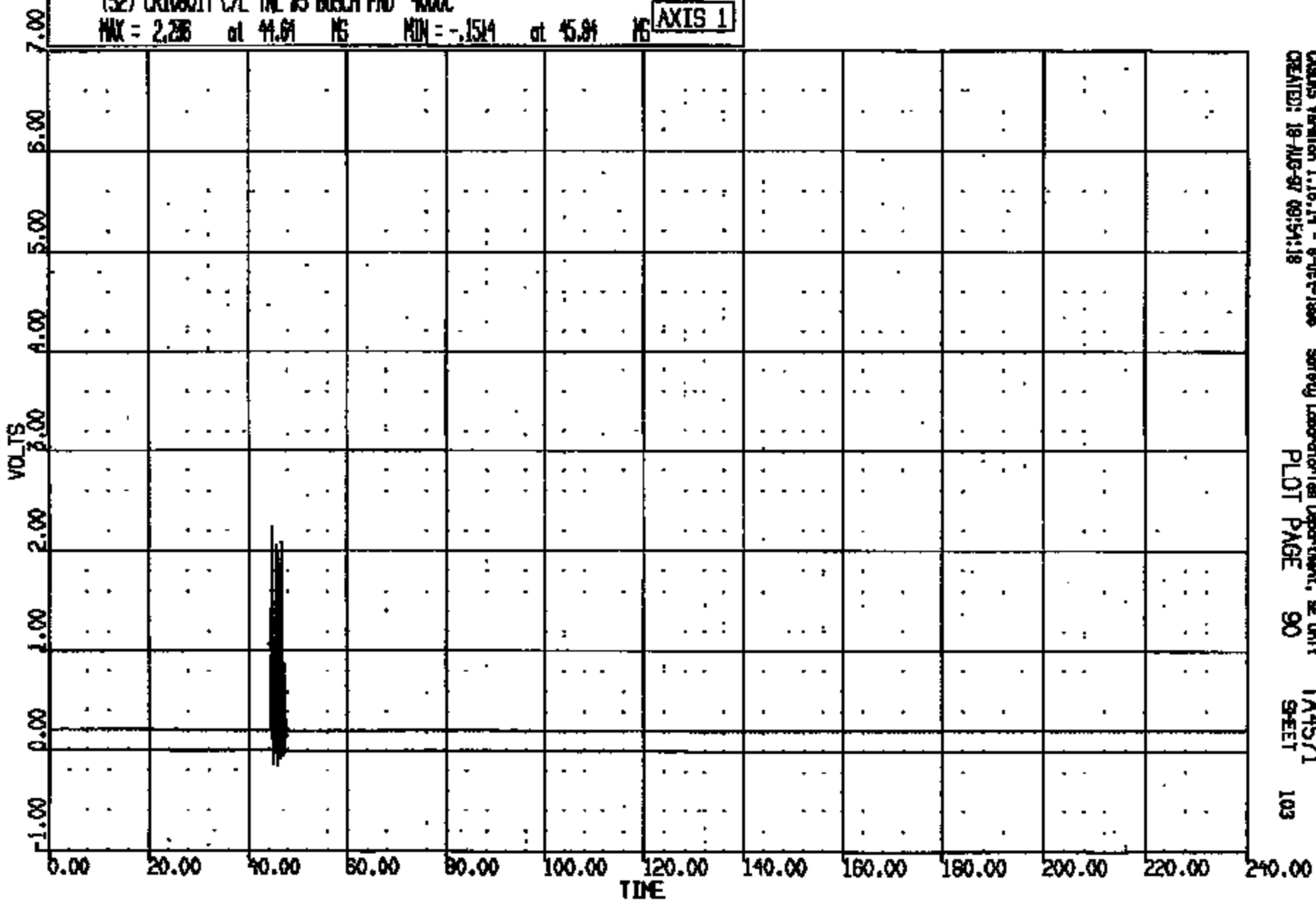
CRTS 0010801

CR R: 10801 TO: TA4571 DATE: 970818 09:18:07  
189X UNKNOWN

(52) CR10801T C/L TNL #5 BOSCH FND 400C

MAX = 2.286 at 44.91 MS MIN = -.1514 at 45.91 MS

AXIS 1



CRDIS Version 1.16.14 - 8-04-1998  
CREATED: 18-AUG-97 09:14:18

Safety Laboratories Department, SE Unit  
PLOT PAGE 90

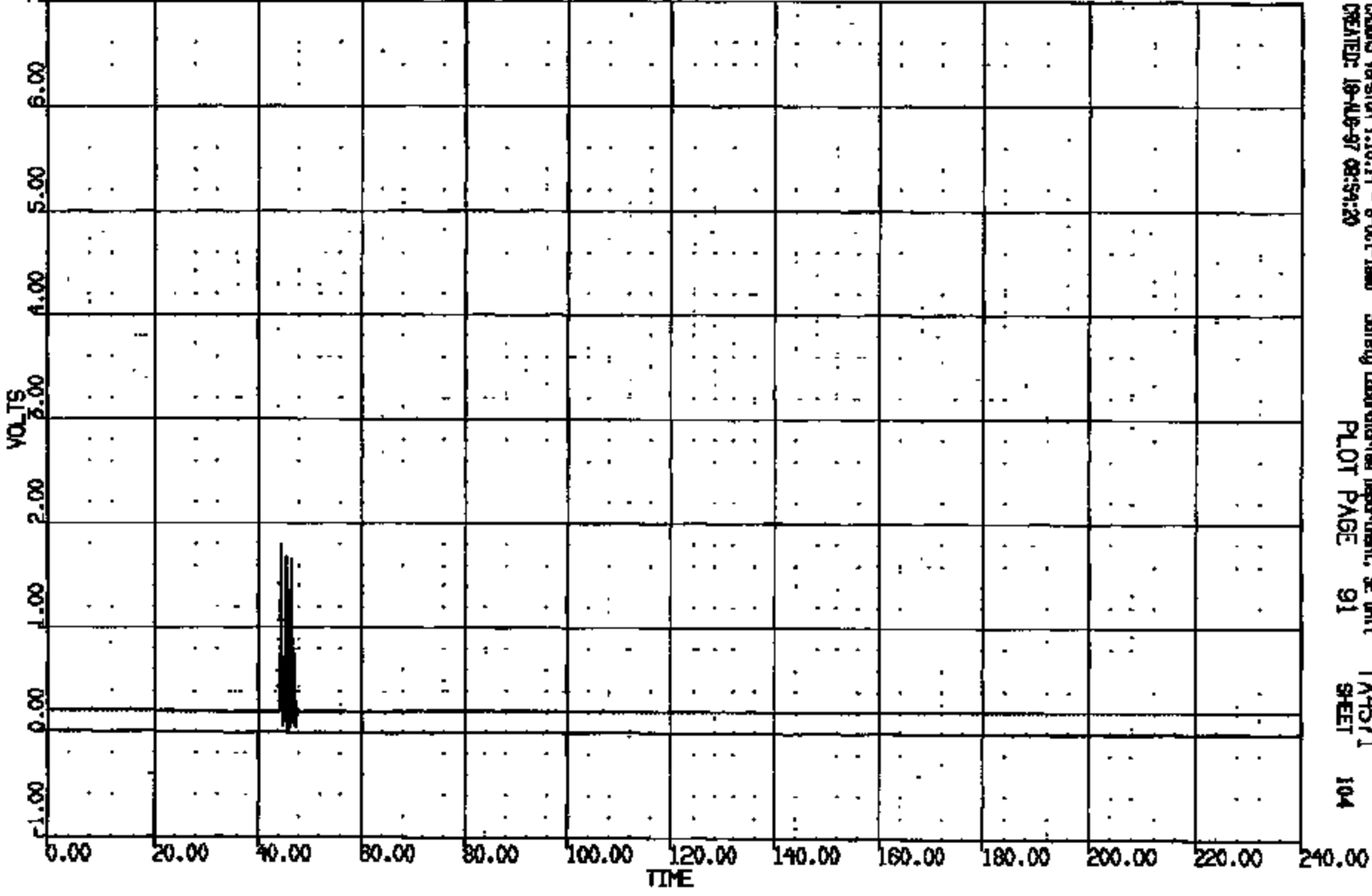
TA4571  
SHEET

103

CRTS 0010801

CR #: 10801 TO: TA4571 DATE: 970816 09:15:04  
189X UNKNOWN

(53) CR10801T CAL TML #5 BOSCH FAP 4000C  
MAX = 1.732 at 44.84 MS MIN = -.488E-02 at 45.84 MS **AXIS 1**



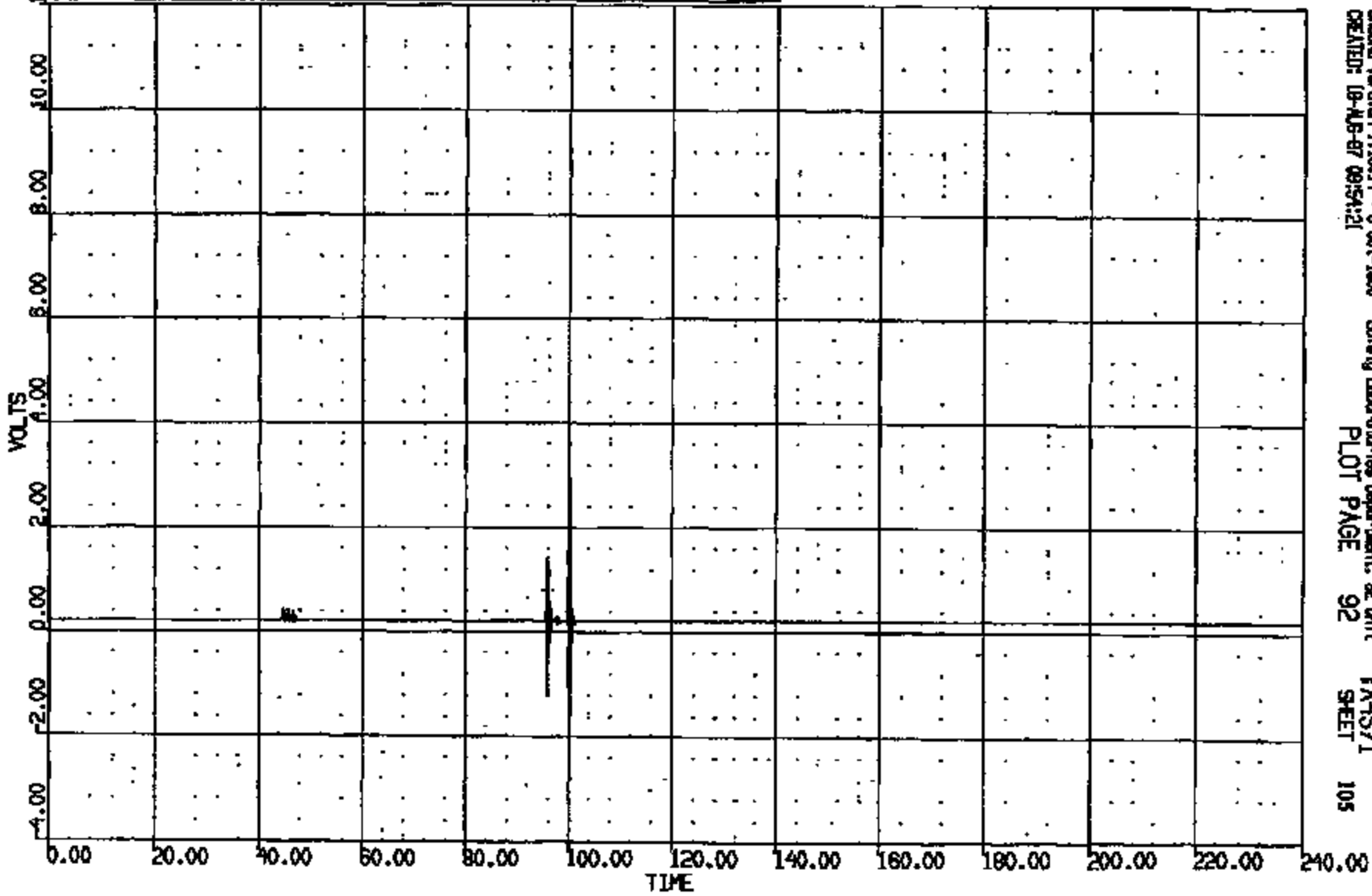
CRTS 0010801

CRS0MS Version 1.16.14 - 8-Oct-1998 Safety Laboratories Department, SE Unit TA4571  
CREATED: 18-AUG-97 09:54:20 PLOT PAGE 91 SHEET 104



CR# R = 10801 TO = TA4571 DATE = 870818 09:18:04  
199X UNKNOWN

(54) CR10801T CAL TML #5 BOSCH PTD 4300C  
MAX = 4.001 at 100.0 MS MIN = -3.076 at 100.1 MS **AXIS 1**



CRTS 0010801

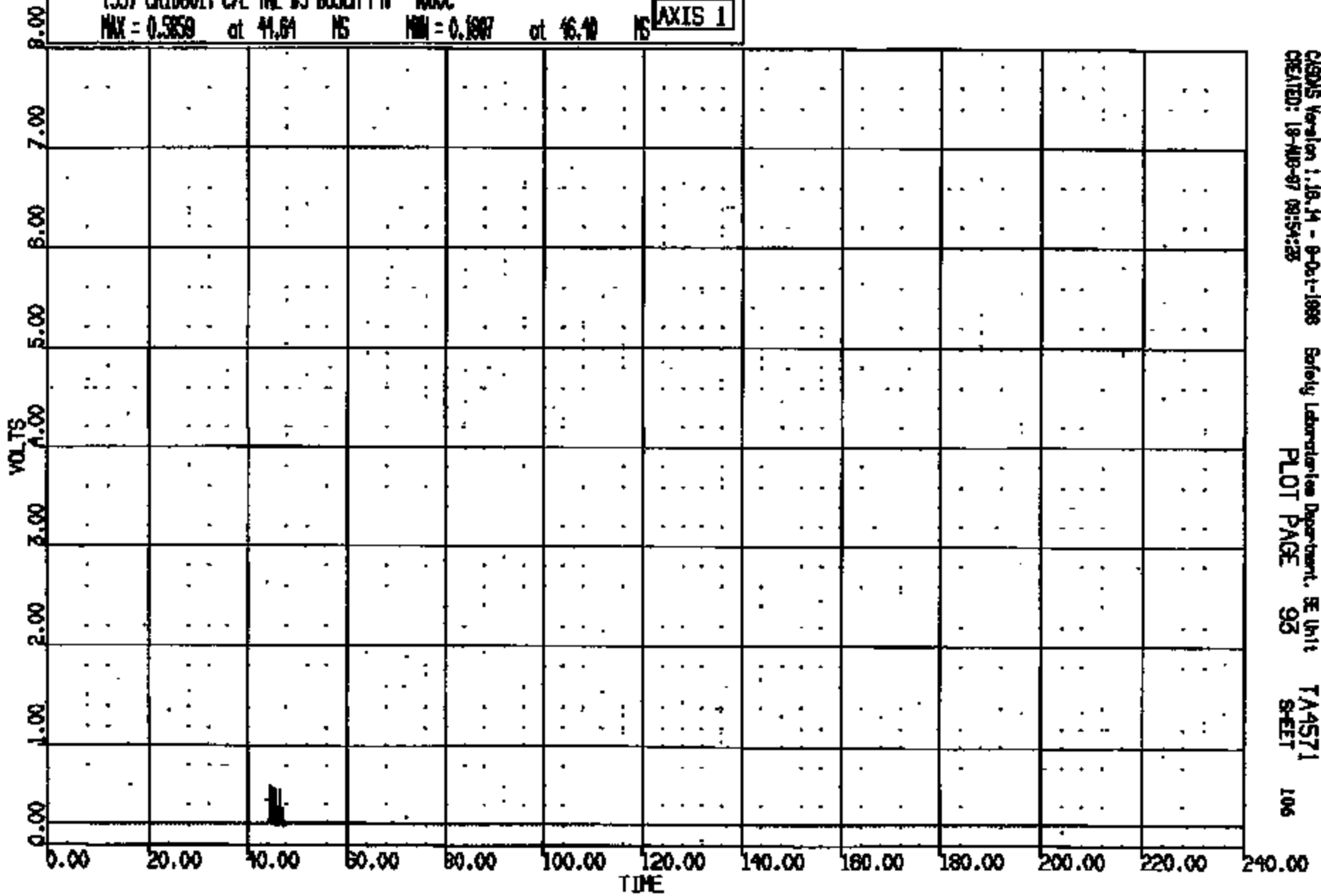
CASING Version 1.16.14 - 8-01-1999 Safety Laboratories Department, SE Unit TA4571  
CREATED: 08-AUG-87 09:54:21 PLOT PAGE 92 SHEET 105

CR R: 10801 TO: TA4571 DATE: 970818 09:18:04  
LOGX UNKNOWN

(55) CR10801T C/L TML #5 BOSCH PTP 400C

MAX = 0.5859 at 41.64 MS MIN = 0.1987 at 16.40 MS

AXIS 1



CR10801

CRS015 Version 1.18.14 - 9-01-1998  
CREATED: 18-AUG-97 09:54:25

Safety Laboratories Department, SE Unit  
PLOT PAGE 93

TA4571  
SHEET

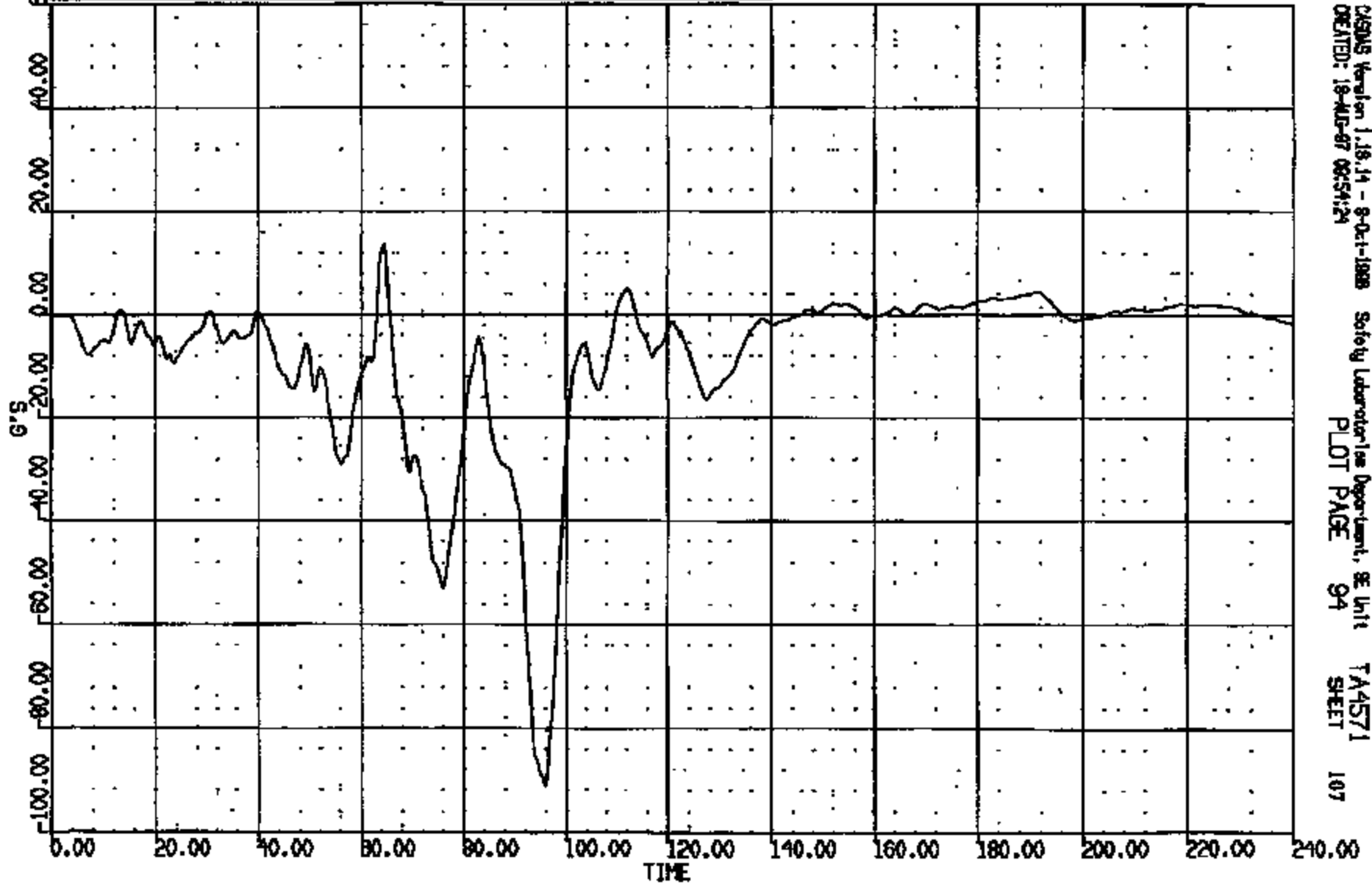
106

CR R: 10801 TO: TA4571 DATE: 870818 09:18:04  
199X UNKNOWN

(56) CR10801T C/L TML FWD OF F/SEATS SH LONG 60C

MAX = 13.63 at 61.48 MS MIN = -91.23 at 96.00 MS

AXIS 1



CASMS Version 1.18.14 - 8-Oct-1988  
CREATED: 18-AUG-87 08:54:24

Safety Laboratories Department, SE Unit  
PLOT PAGE 94

TA4571  
SHEET

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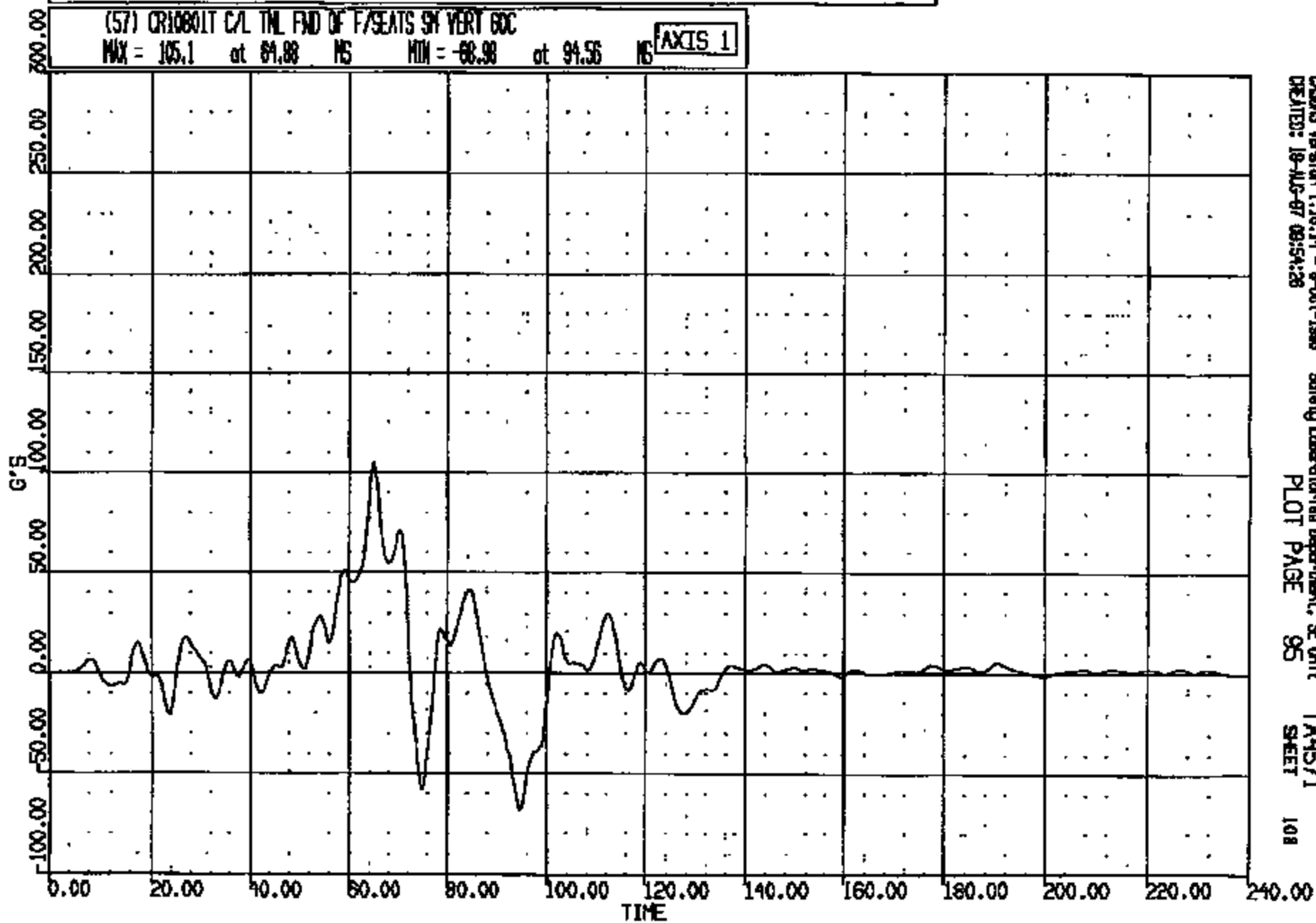
CRIS 0010801

CR R: 10801 TO: TA4571 DATE: 870818 09:18:04  
100X UNKNOWN

(57) CR10801T C/L TML FND OF F/SEATS 94 VERT 60C

MAX = 105.1 at 61.88 MS MIN = -68.98 at 94.56 MS

1 STRIP



CRIS 0010801

CASMS Version 1.16.14 - 8-Oct-1988  
CREATED: 18-AUG-87 08:54:28

Safety Laboratories Department, SE Unit  
PLOT PAGE 95

TA4571  
SHEET

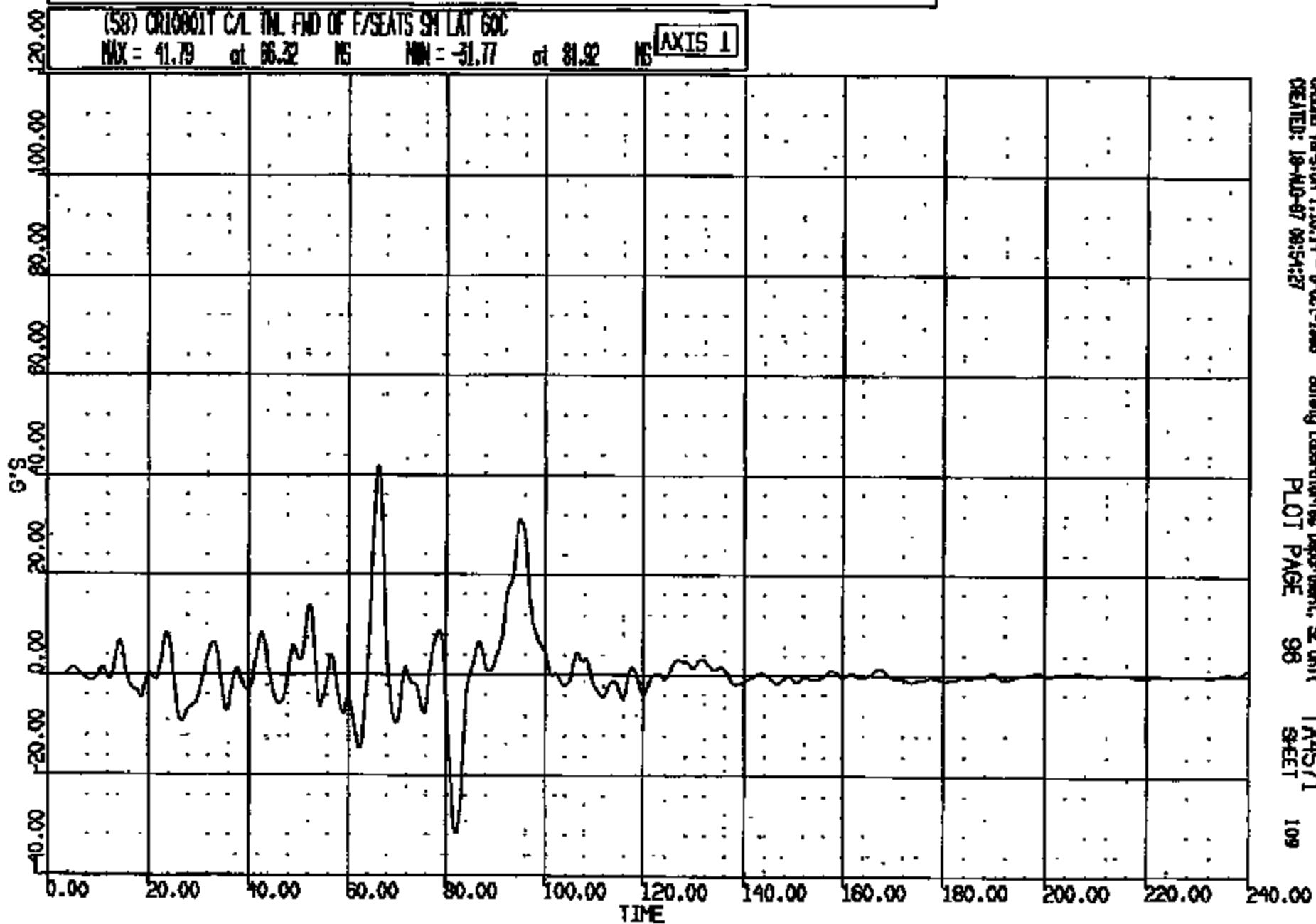
108

CR R: 10801 TO: TA4571 DATE: 970818 06:18:04  
100X UNKNOWN

(58) CR10001T C/L INL FND OF F/SEATS SH LAT 60C

MAX = 41.79 at 66.32 NS MIN = -31.77 at 81.92 NS

AXIS 1



CRTS 0010801

CASME Version 1.16.14 - 8-01-1998  
CREATED: 18-AUG-97 06:54:27

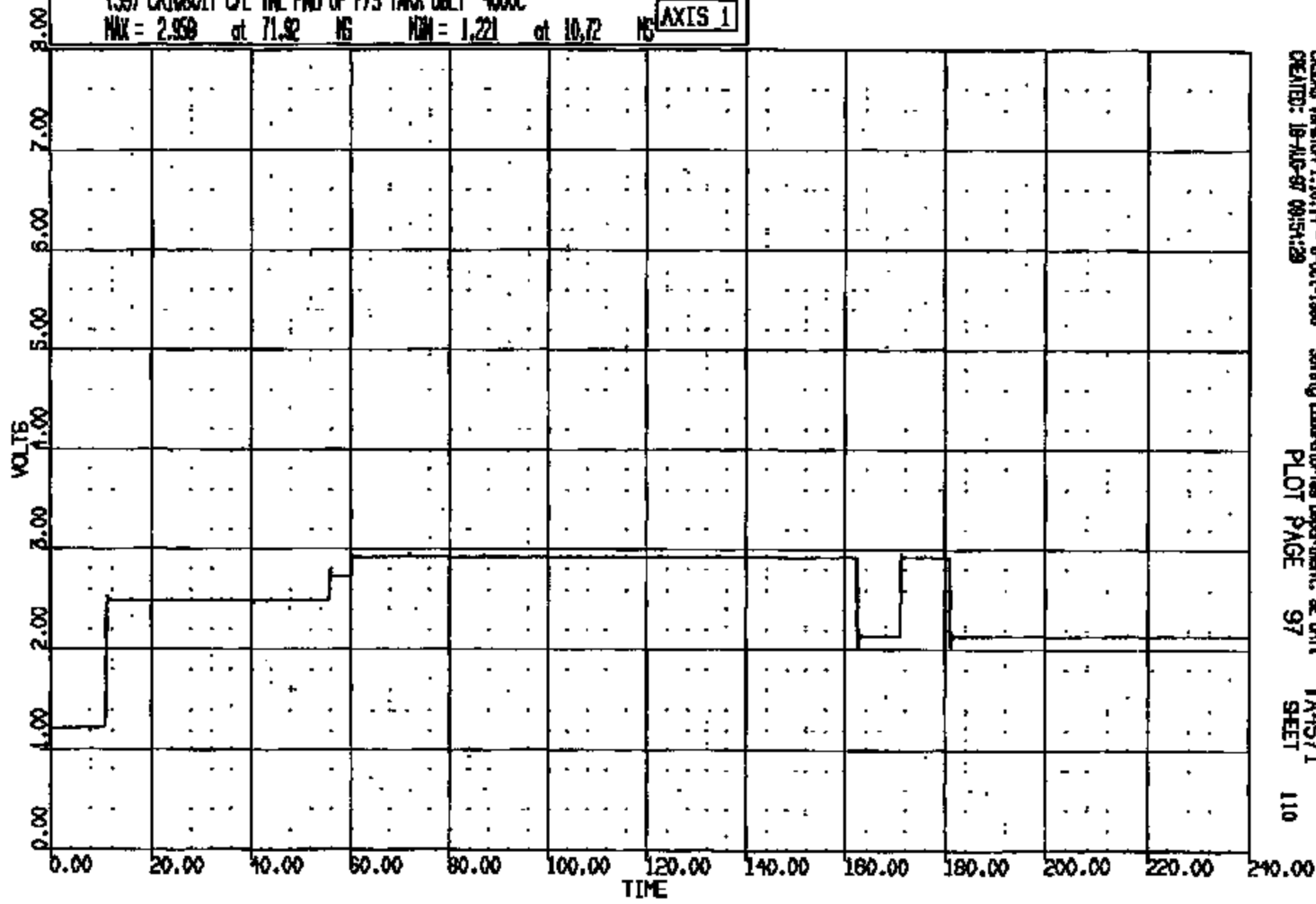
Safety Laboratories Department, SE Unit  
PLOT PAGE 98

TA4571  
SHEET

109

CR R: 10801 TO: TA4571 DATE: 970518 09:18:04  
199X UNKNOWN

(59) CR0801T C/L TML FND OF F/S TAKA LBRT 400C  
MAX = 2.958 at 71.92 NS MIN = 1.221 at 10.72 NS **AXIS 1**



CRTS 0010801

CASYS Version 1.10.14 - 8-Oct-1995 Safety Laboratories Department, SE Unit TA4571  
CREATED: 18-AUG-97 09:54:29 PLOT PAGE 97 SHEET 110

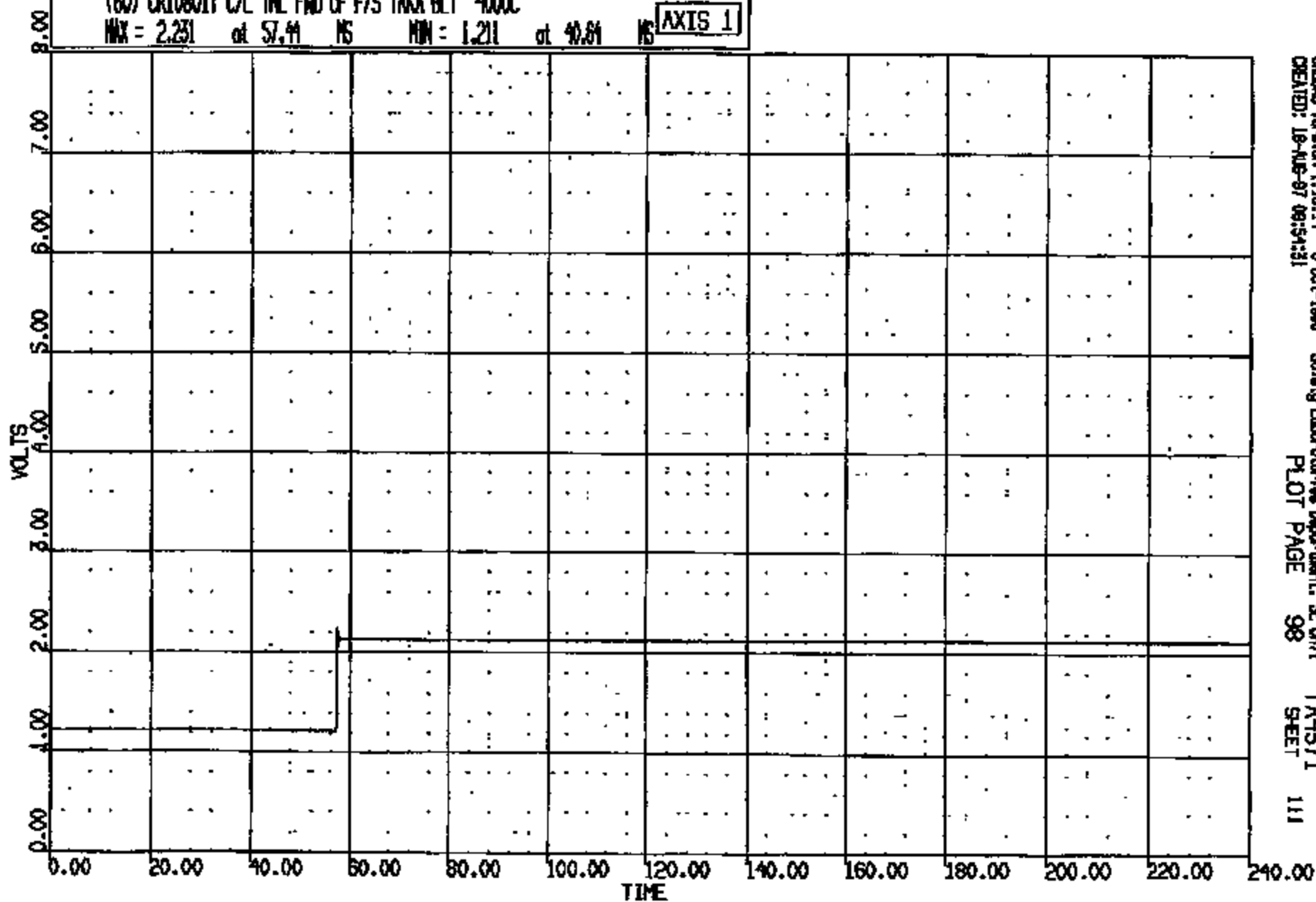
CR R: 10801 TO: TA4571 DATE: 970818 08:18:04

199X UNKNOWN

(60) CR10801T C/L TNL FND OF F/S TAKA BLT 4000C

MAX = 2.231 at 57.44 MS MIN = 1.211 at 40.84 MS

AXIS 1



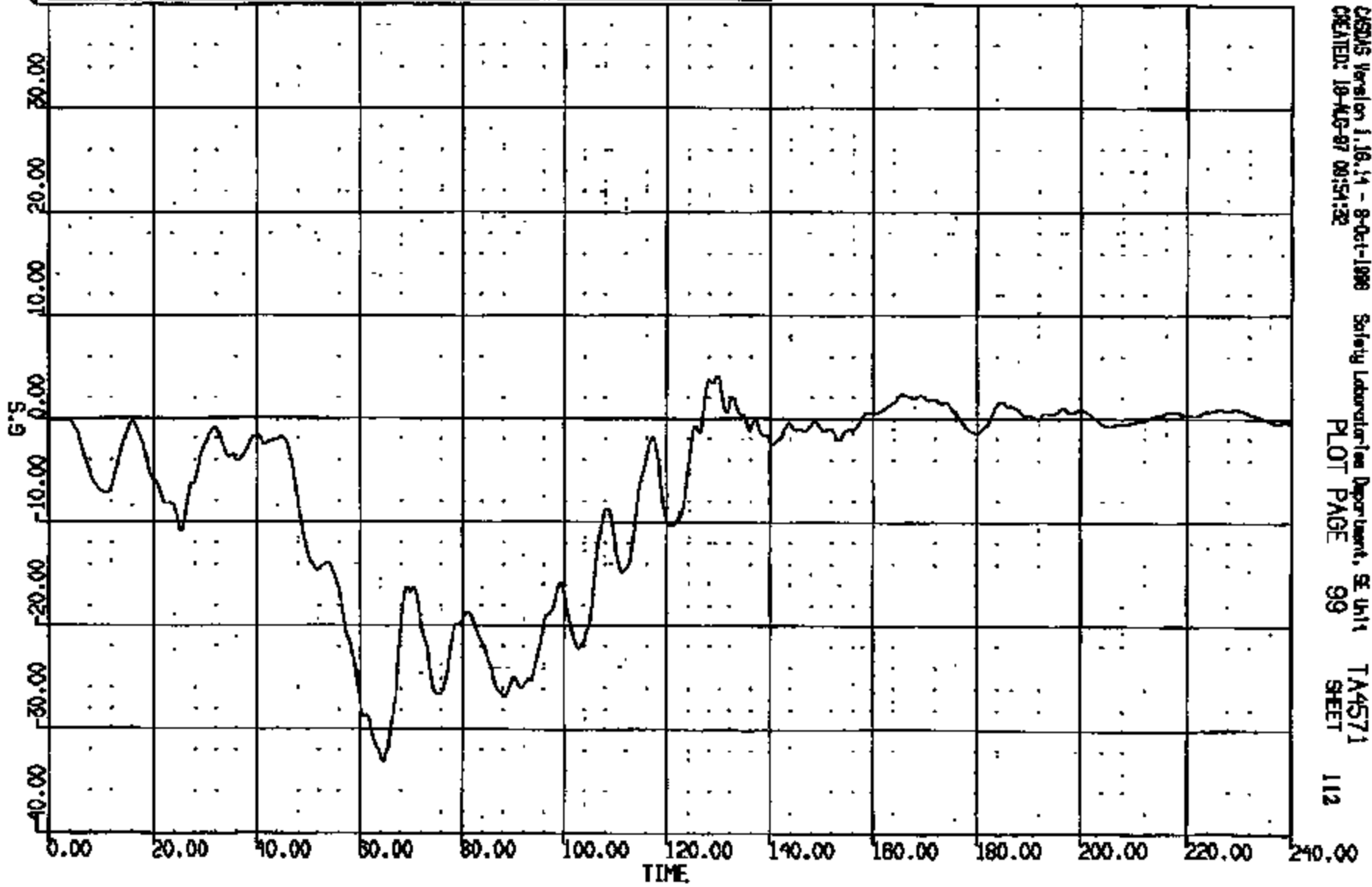
CRIS 0010801

CR R: 10801 TO: TA4571 DATE: 870818 08:18:04  
108X UNKNOWN

(61) CR10801 L/F DOOR @ BELT LINE MID SH LONG SOC

MAX = 4.159 at 128.6 MS MIN = -33.17 at 64.80 MS

AXIS 1



CASOS Version 1.16.14 - 8-01-1988  
CREATED: 18-AUG-87 08:54:32

Safety Laboratories Department, SE Unit  
PLOT PAGE 99

TA4571  
SHEET 112

CRTS 0010801

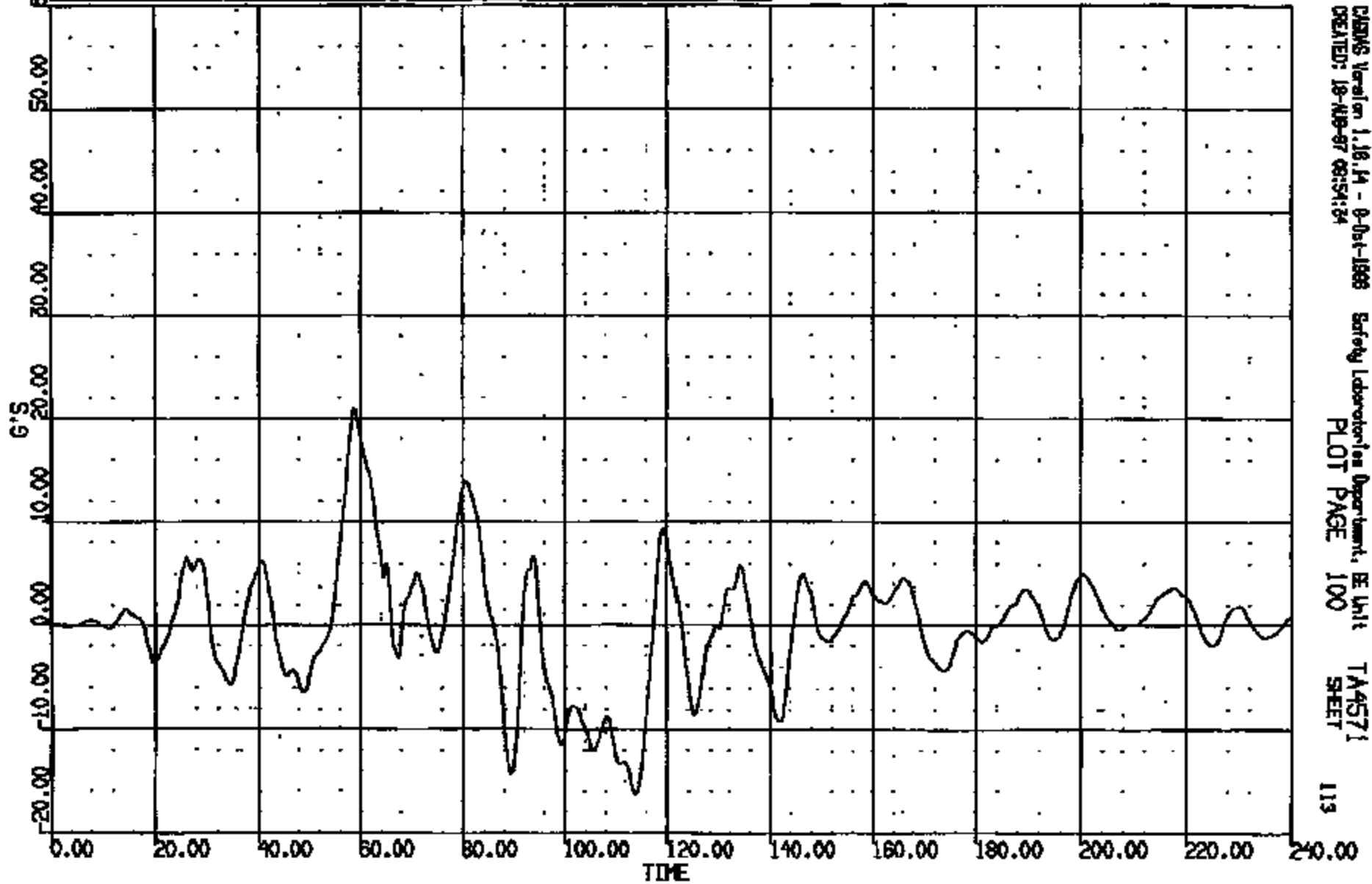


CR R: 10801 TO: TA4571 DATE: 870818 09:18:04  
100X UNKNOWN

(62) CR10801T L/F DOOR @ BELT LINE MID SH WERT GXC

MAX = 21.00 at 58.00 NS MIN = -16.32 at 114.0 NS

AXIS 1



CRIMS Version 1.18.14 - 8-01-1988 Safety Laboratories Department, EE Unit TA4571  
CREATED: 18-AUG-87 09:54:24 PLOT PAGE 100 SHEET 113

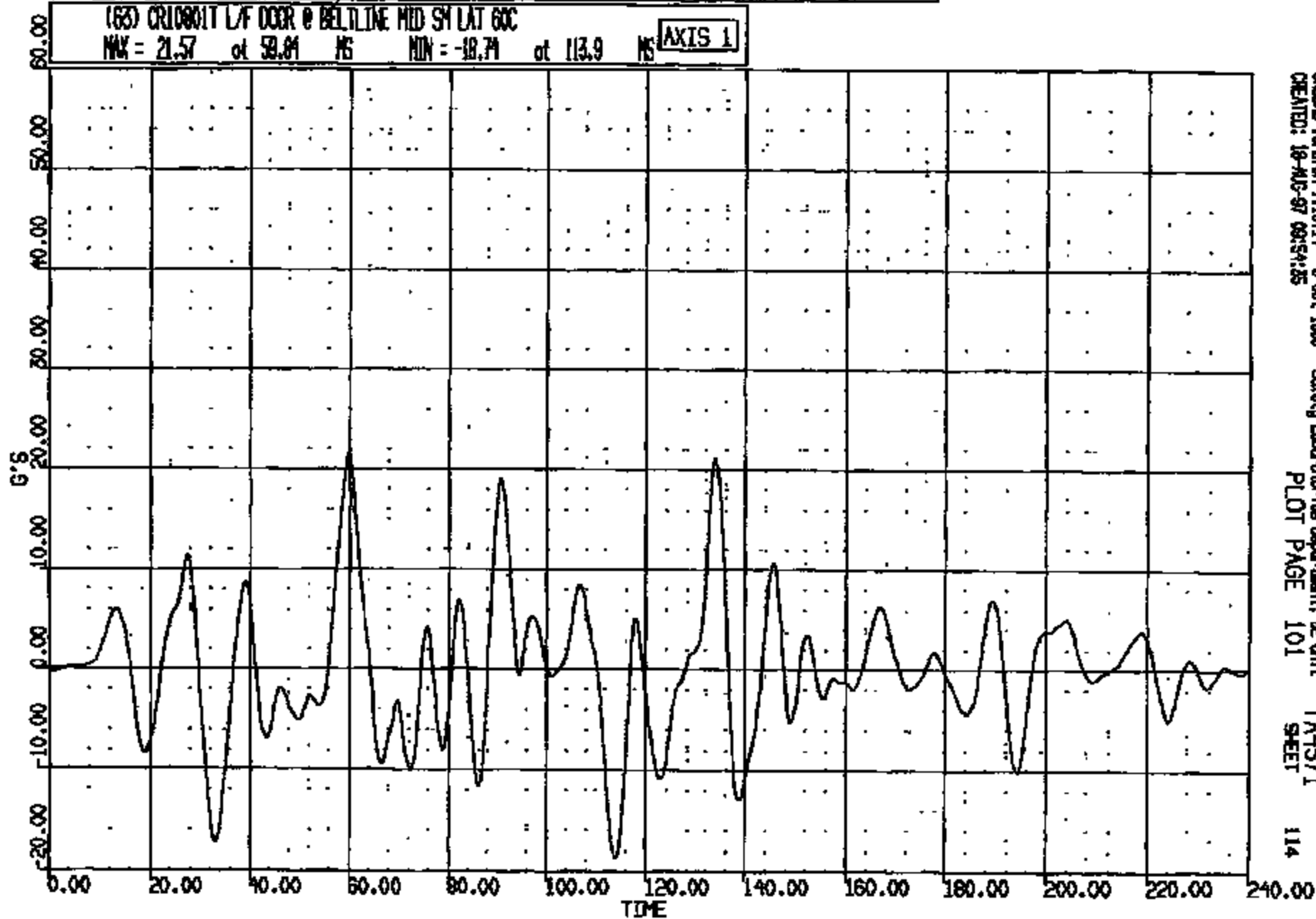
CRTS 0010801

CR 7: 10801 TO: TA4571 DATE: 870818 08:18:04  
100X UNKNOWN

(63) CR1001T L/F DOOR @ BELTLINE MID SH LAT 60C

MAX = 21.57 at 59.81 MS MIN = -18.74 at 113.9 MS

AXIS 1



CRDMS Version 1.16.14 - 8-Oct-1988  
CREATED: 18-AUG-87 08:54:25

Safety Laboratories Department, SE Unit  
PLOT PAGE 101

TA4571  
SHEET

114

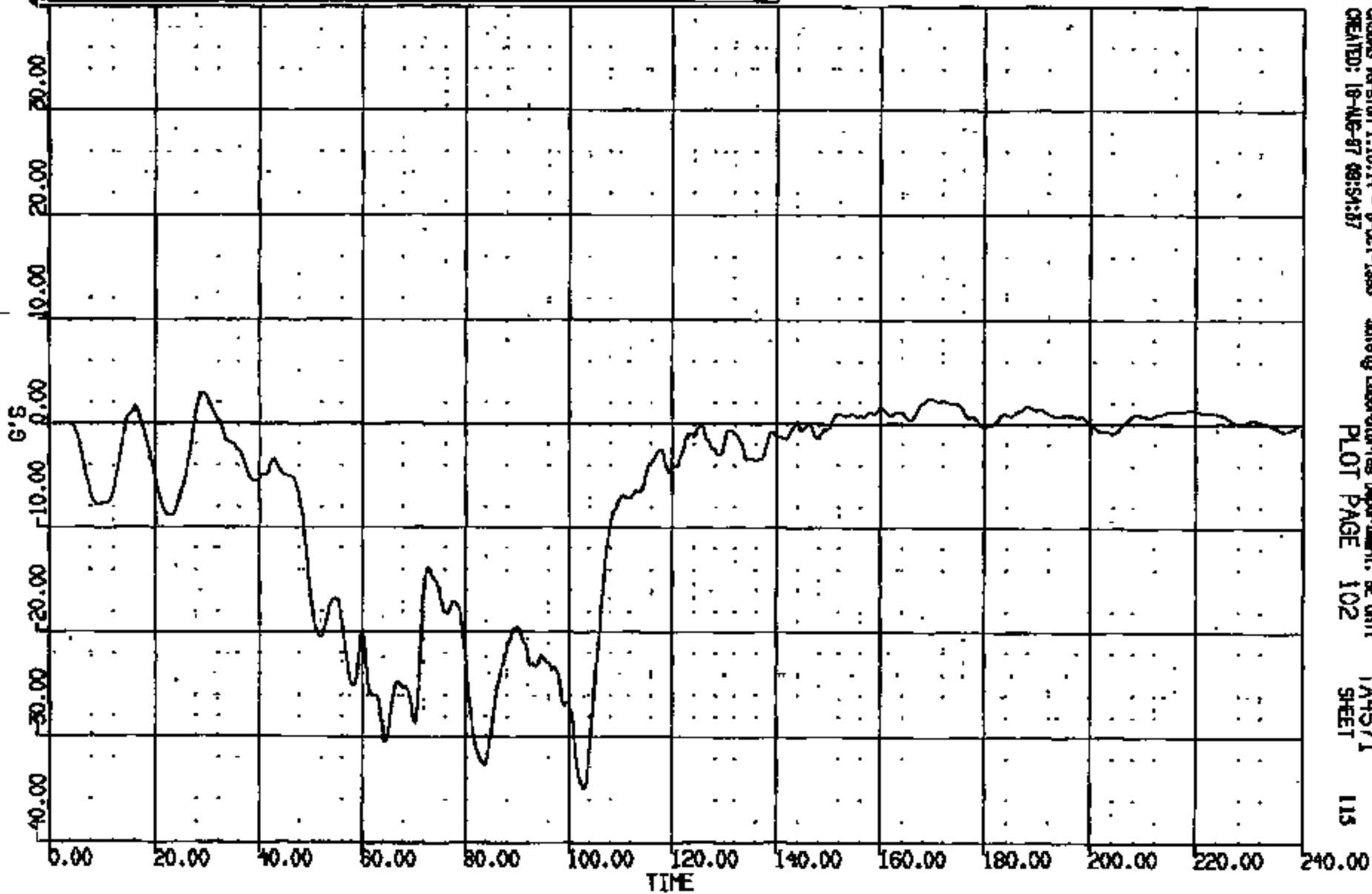
CRTS 0010801

CR R: 10601 TO: TA4571 DATE: 870818 08:18:04  
100X UNKNOWN

(64) CR10801 R/F DOOR @ BELTLINE MED SH LONG 60C

MAX = 2.959 at 29.20 MS MIN = -34.95 at 102.9 MS

AXIS 1



CRSUS Version 1.18.14 - 8-Oct-1988  
CREATED: 18-AUG-87 08:54:57

Safety Laboratories Department, DE Unit  
PLOT PAGE 102

TA4571  
SHEET

115

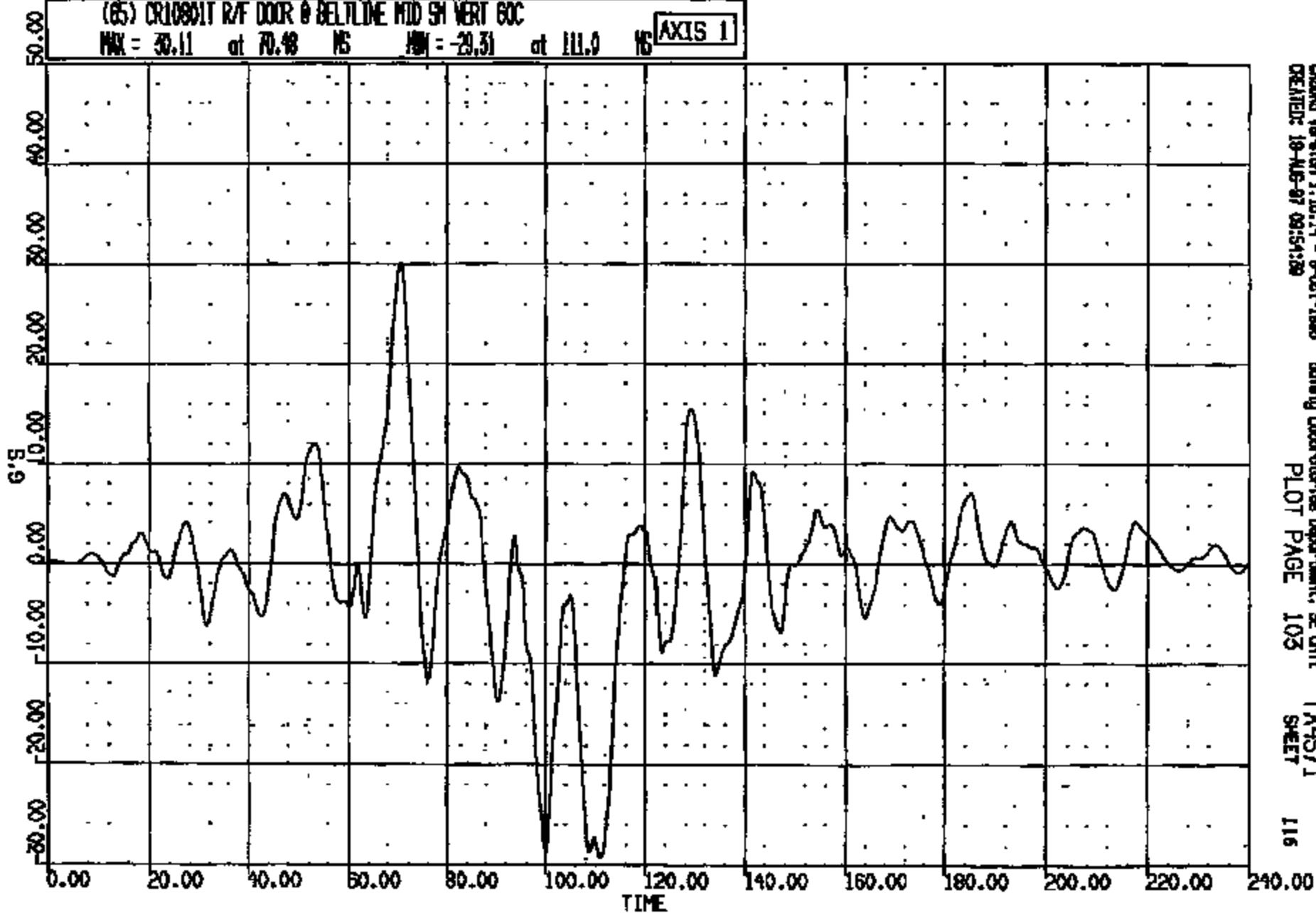
CRIS 0010801

CR R: 10801 TO: TA4571 DATE: 870818 09:18:04  
100X UNKNOWN

(65) CR10801 R/F DOOR @ BELTLINE MID SH VERT 60C

MAX = 30.11 at 70.48 MS MIN = -29.31 at 111.0 MS

AXIS 1



CRTS 0010801

CRAMS Version 1.18.14 - 8-01-1988  
CREATED: 18-AUG-87 09:54:29

Safety Laboratories Department, SE Unit  
PLOT PAGE 103

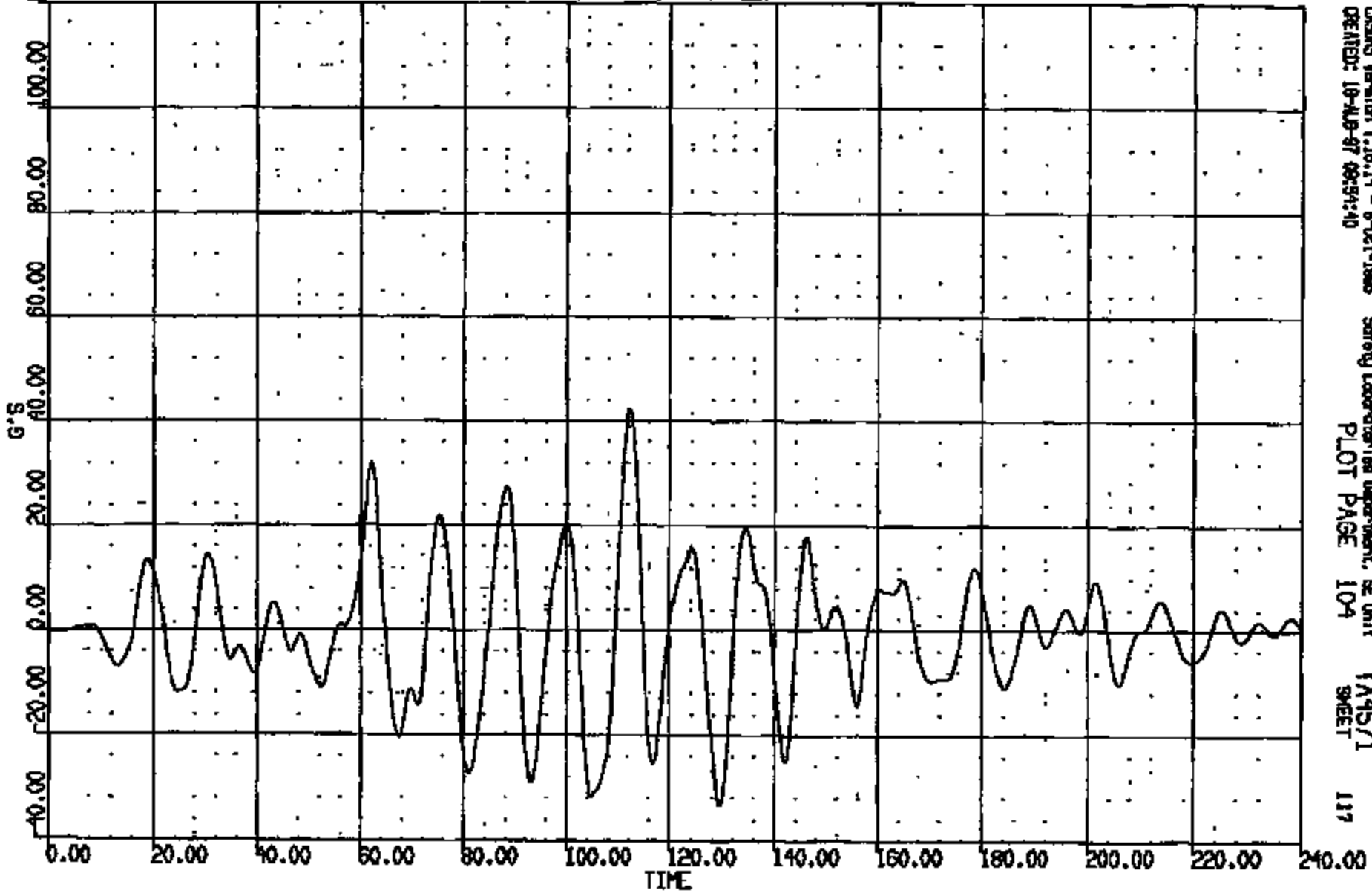
TA4571  
SHEET

116

CR R: 10801 TO: TA4571 DATE: 870818 09:18:04  
198X UNKNOWN

(66) CR10001 R/F DOOR @ BELTLINE MID SH LAT 60C

MAX = 42.17 at 112.3 MS MIN = -36.45 at 129.5 MS AXIS 1



CASINS Version 1.16.14 - 8-Oct-1988 Safety Laboratories Department, SE Unit TA4571  
CREATED: 18-AUG-87 09:54:40 PLOT PAGE 104 SHEET 117

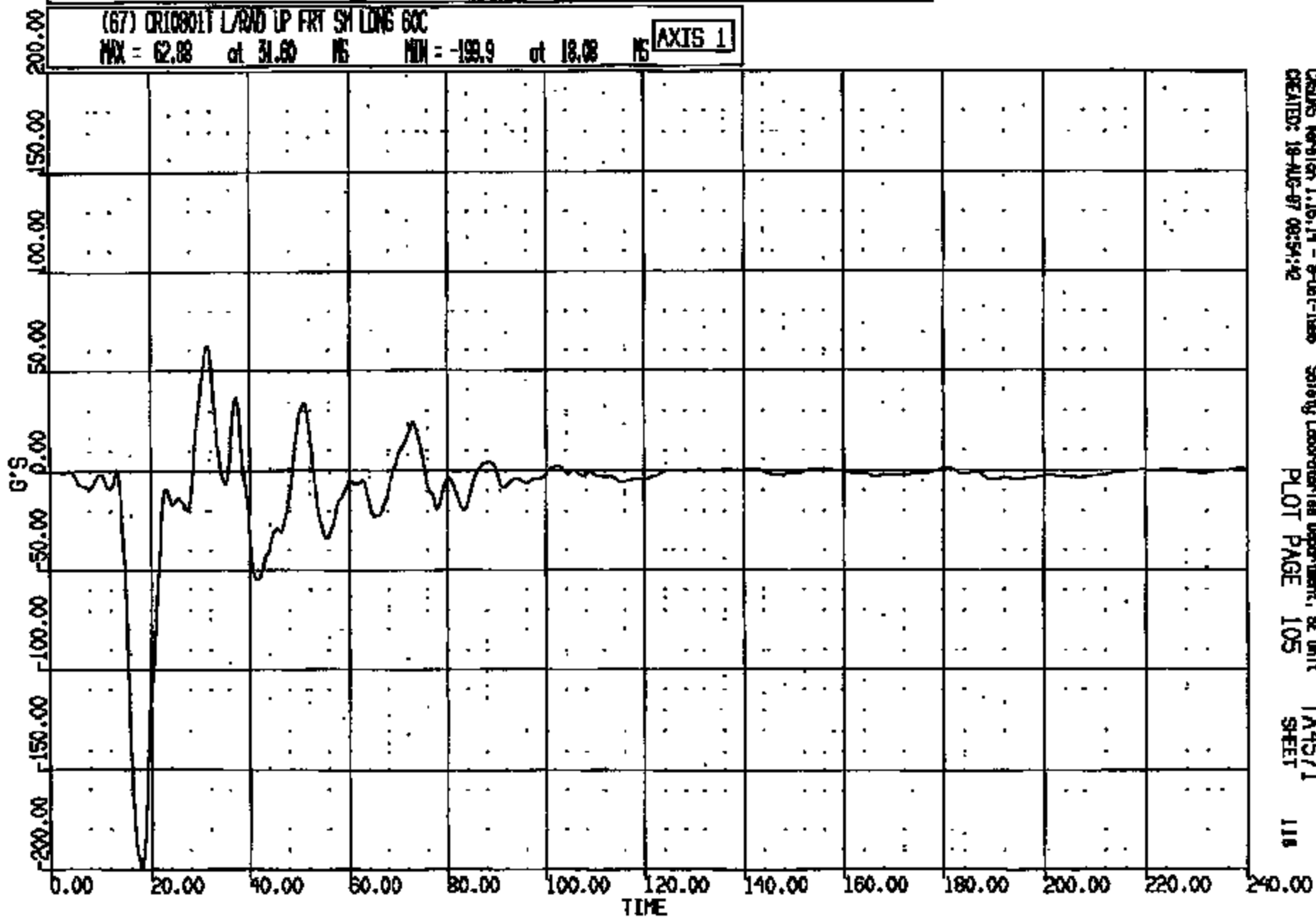
CRTS 0010801

CR# = 10801 TO: TA4571 DATE: 970818 08:18:04  
199X UNKNOWN

(67) CR10801 L/RND UP FRT SH LONG 60C

MAX = 62.88 at 31.60 MS MIN = -199.9 at 18.08 MS

AXIS 1



CASYS Version 1.16.14 - 9-Oct-1998  
CREATED: 18-AUG-97 08:54:42

Safety Laboratories Department, SE Unit  
PLOT PAGE 105

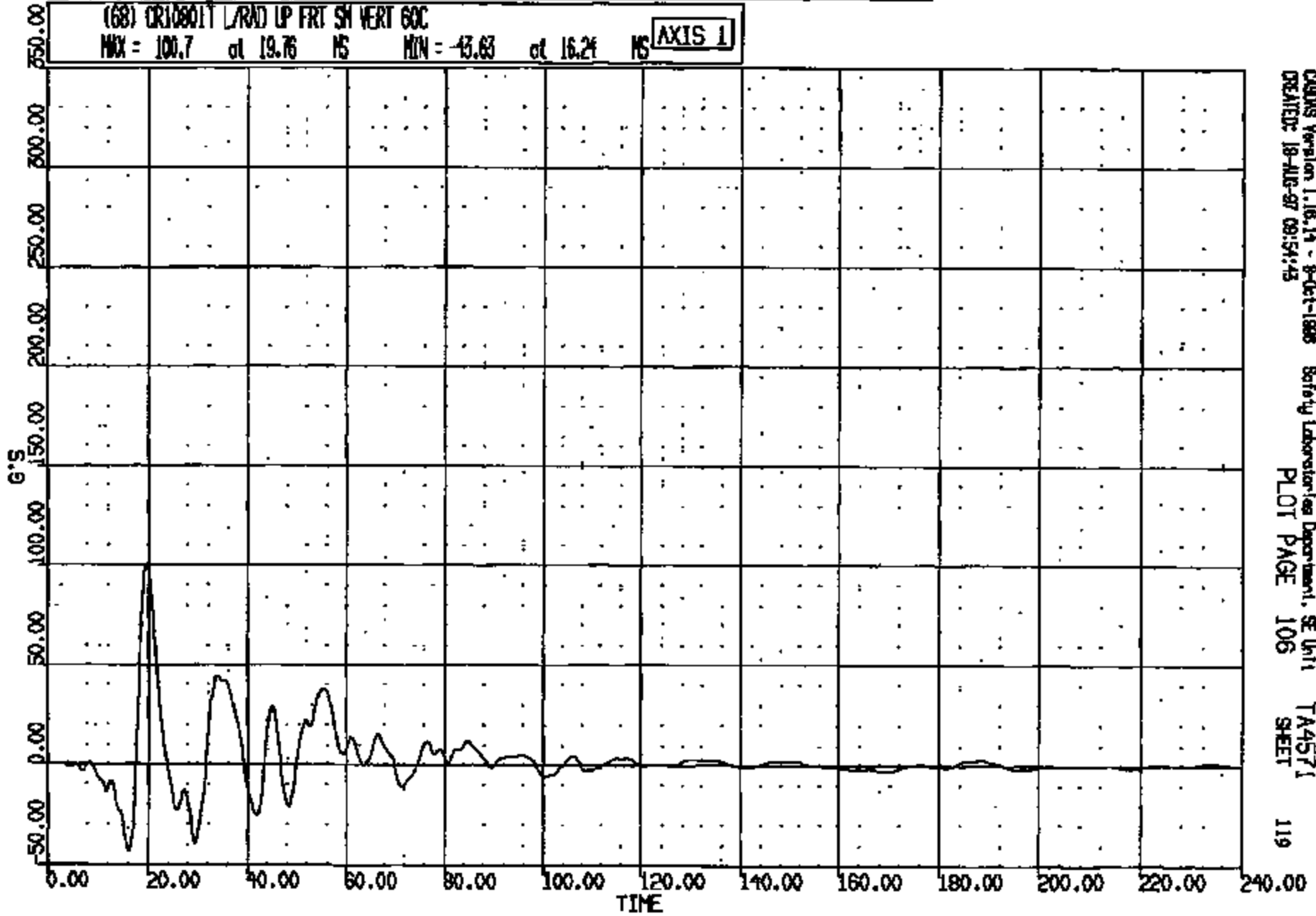
TA4571  
SHEET

118

CRTS 0010801

CR R: 10801 TO: TA4571 DATE: 970818 09:18:04  
198X UNKNOWN

(68) CR10801T L/RAD UP FRT SH VERT 60C  
MAX = 100.7 at 19.76 MS MIN = -43.63 at 16.24 MS **AXIS 1**



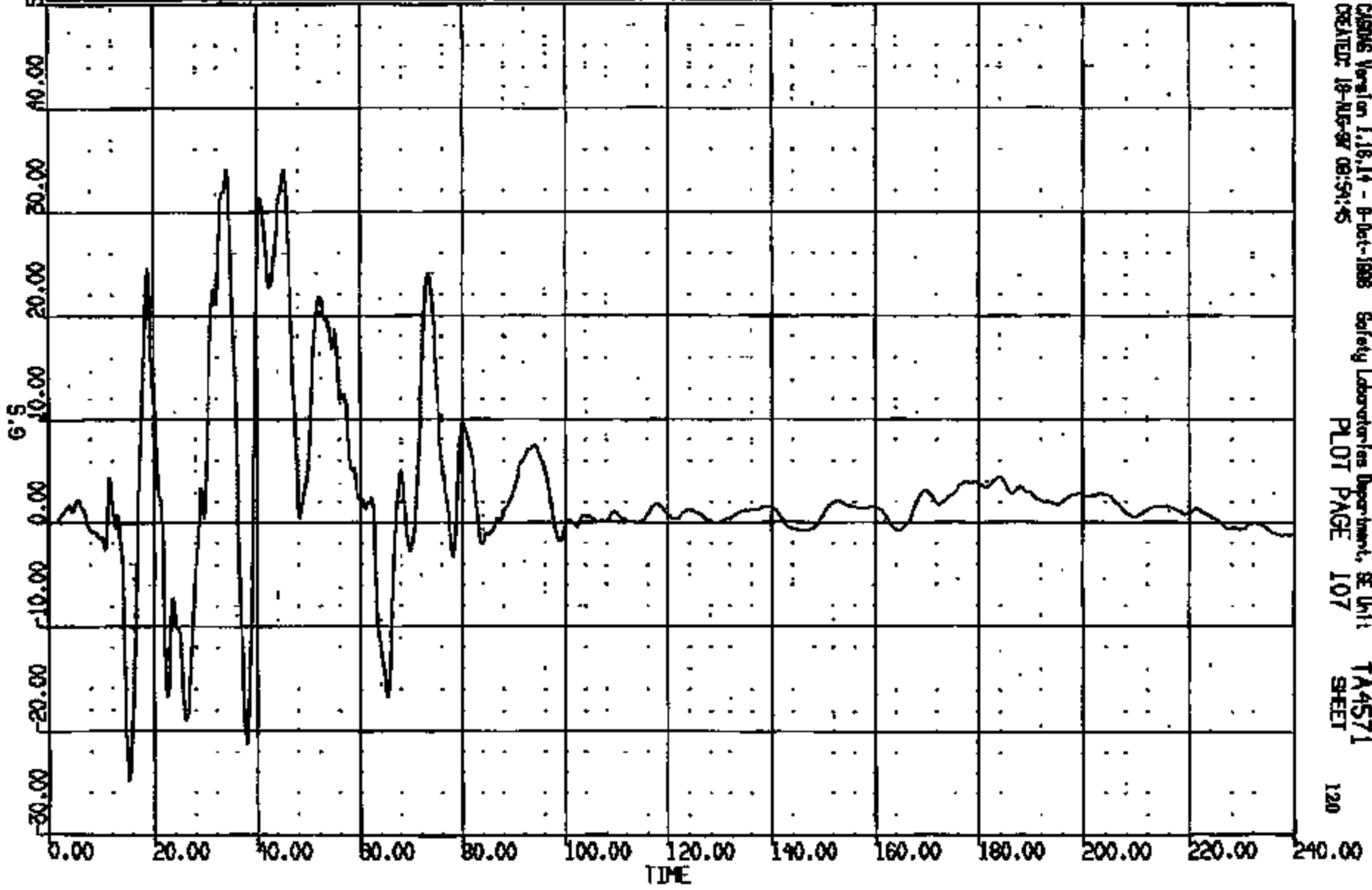
CAONIS Version 1.16.14 - 8-Oct-1988 Safety Laboratories Department, SE Unit TA4571  
CREATED: 18-AUG-97 09:54:43 PLOT PAGE 106 SHEET 119

CRTS 0010801

CR R: 10801 TO: TA4571 DATE: 870818 09:18:04  
100X UNKNOWN

(69) CR10801T L/RAD UP FRT SH LAT 60C  
MAX = 34.00 at 34.18 NS MIN = -24.76 at 15.36 NS

AXIS 1



CRTS 0010801

CASMG Version 1.18.14 - B-Def-1988 Safety Laboratories Department, SE Unit  
CREATED: 18-AUG-87 08:54:45 PLOT PAGE 107 TA4571 SHEET 120

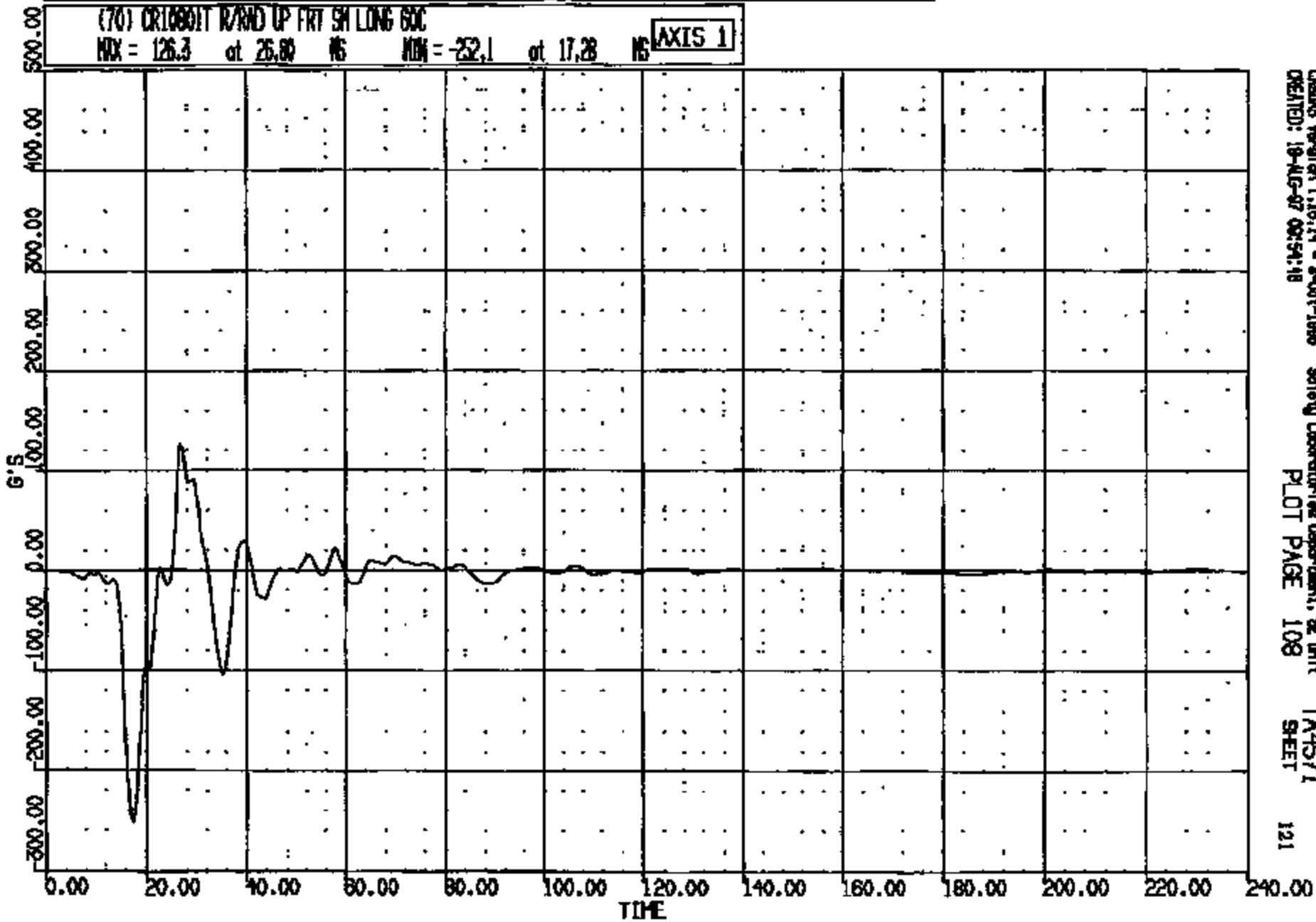


CR R: 10801 TO: TA4571 DATE: 870818 09:18:04  
100X UNKNOWN

(70) CR10801T R/RND UP FRT SH LONG SOC

MAX = 126.3 at 25.80 NS MIN = -252.1 at 17.28 NS

AXIS 1



CASINS Version 1.16.14 - 8-04-1988  
CREATED: 18-AUG-87 09:54:18

Safety Laboratories Department, SE Unit  
PLOT PAGE 108

TA4571  
SHEET

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CRTS 0010801

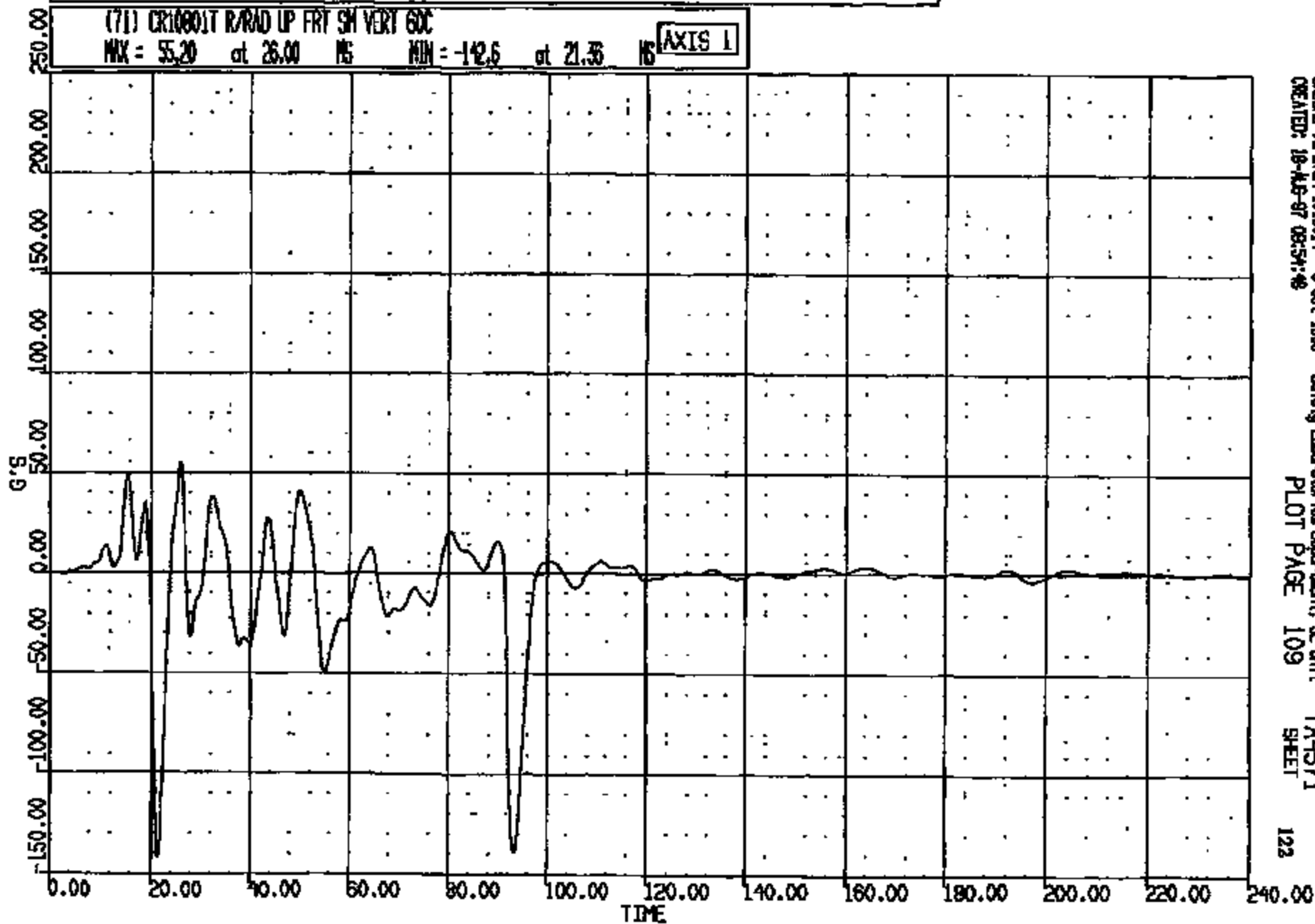
CR R: 10801 TO: TA4571 DATE: 870818 08:16:04

100X UNKNOWN

(71) CR1000IT R/RAD UP FRT SH VERT 60C

MAX = 55.20 at 26.00 MS MIN = -142.6 at 21.35 MS

AXIS 1



CASONE Version 1.10.14 - 8-Oct-1988  
CREATED: 18-APR-87 08:54:48

Safety Laboratories Department, SE Unit  
PLOT PAGE 109

TA4571  
SHEET

122

CRTS 0010801

CR R: 10801 TO: TA4571 DATE: 970818 09:18:04

100X UNKNOWN

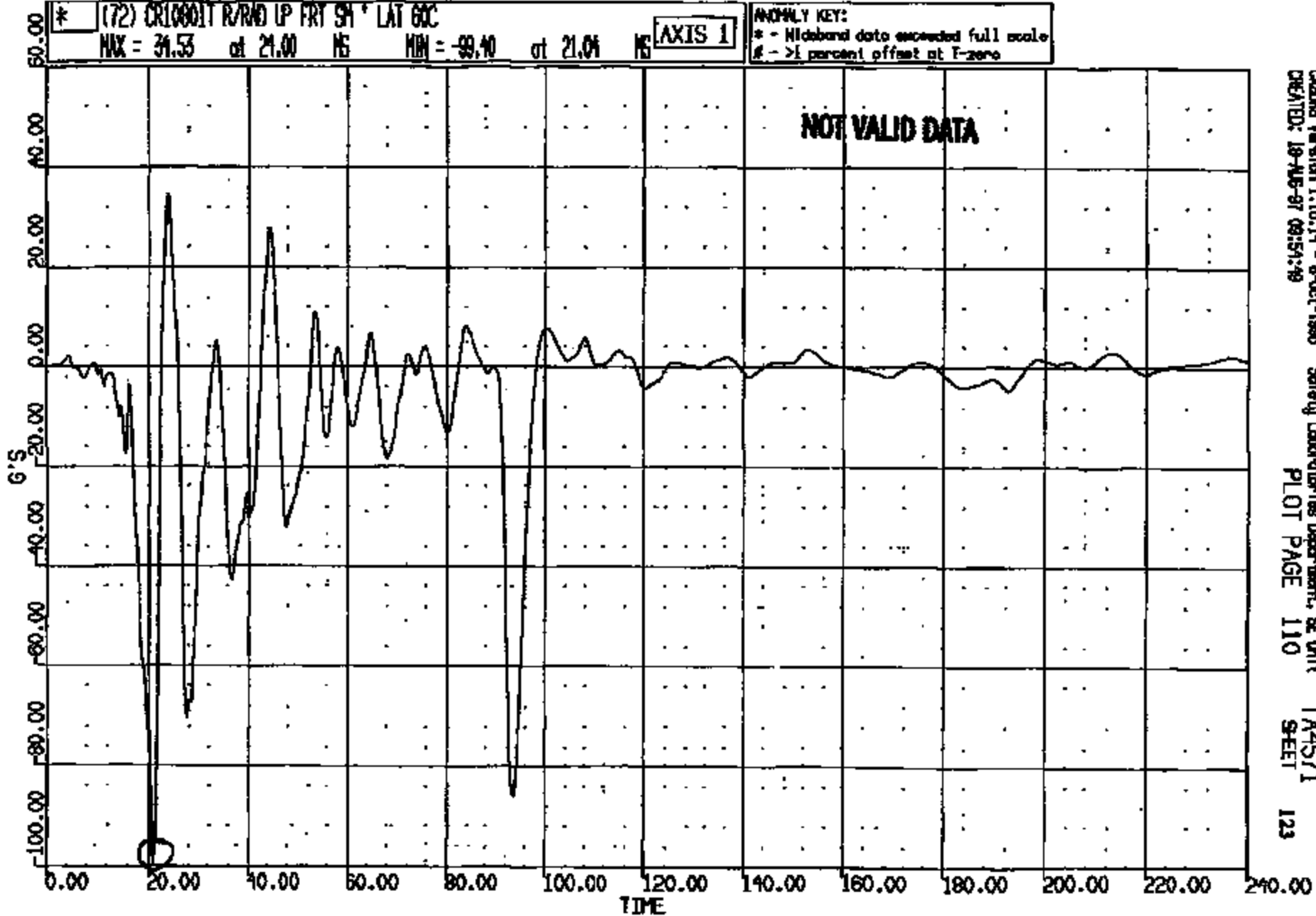
\* (72) CR1000IT R/RND UP FRY SH \* LAT 60C

MAX = 31.53 at 21.00 MS MIN = -99.40 at 21.04 MS

AXIS 1

ANOMLY KEY:

\* - Highband data exceeded full scale  
# - >1 percent offset at T-zero



CASIMS Version 1.16.14 - 8-Oct-1996  
CREATED: 18-AUG-97 09:54:49

Safety Laboratories Department, SE Unit  
PLOT PAGE 110

TA4571  
SHEET

123

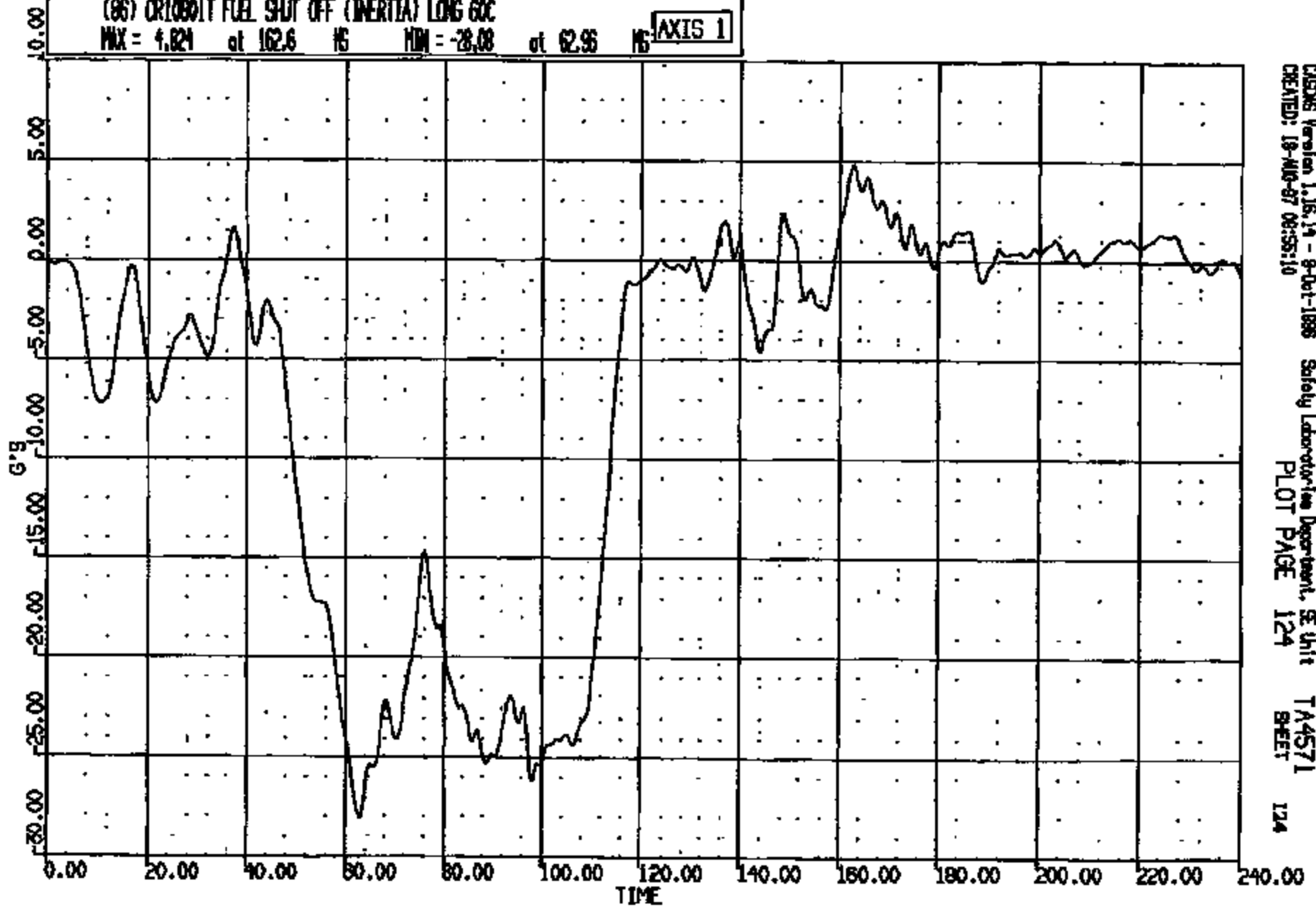
CRTS 0010801

CR R: 10801 TO: TA4571 DATE: 870818 08:18:04  
180X UNKNOWN

(86) CR10801 FUEL SHUT OFF (INERTIA) LONG GOC

MAX = 4.824 at 162.6 MS MIN = -28.08 at 62.95 MS

AXIS 1



CASDS Version 1.16.14 - 8-Oct-1988  
CREATED: 18-MAR-87 08:55:10

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PLOT PAGE 124

TA4571  
SHEET

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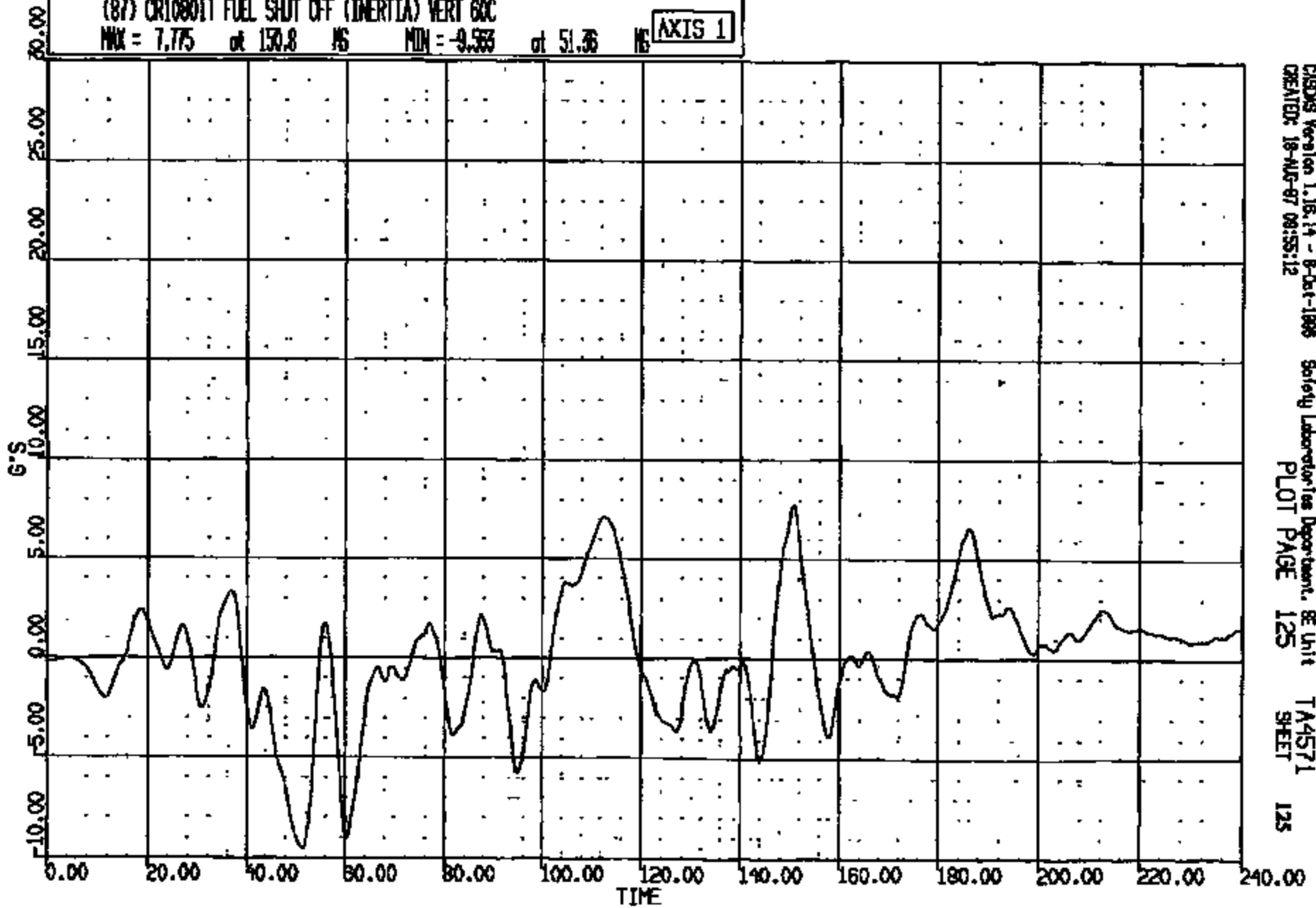
CRIS 0010801

CX# = 10801 TO: TA4571 DATE: 970818 08:18:04  
108X UNKNOWN

(87) CR10801 FUEL SHUT OFF (INERTIA) VERT GXC

MAX = 7.75 at 150.8 MS MIN = -9.53 at 51.36 MS

AXIS 1

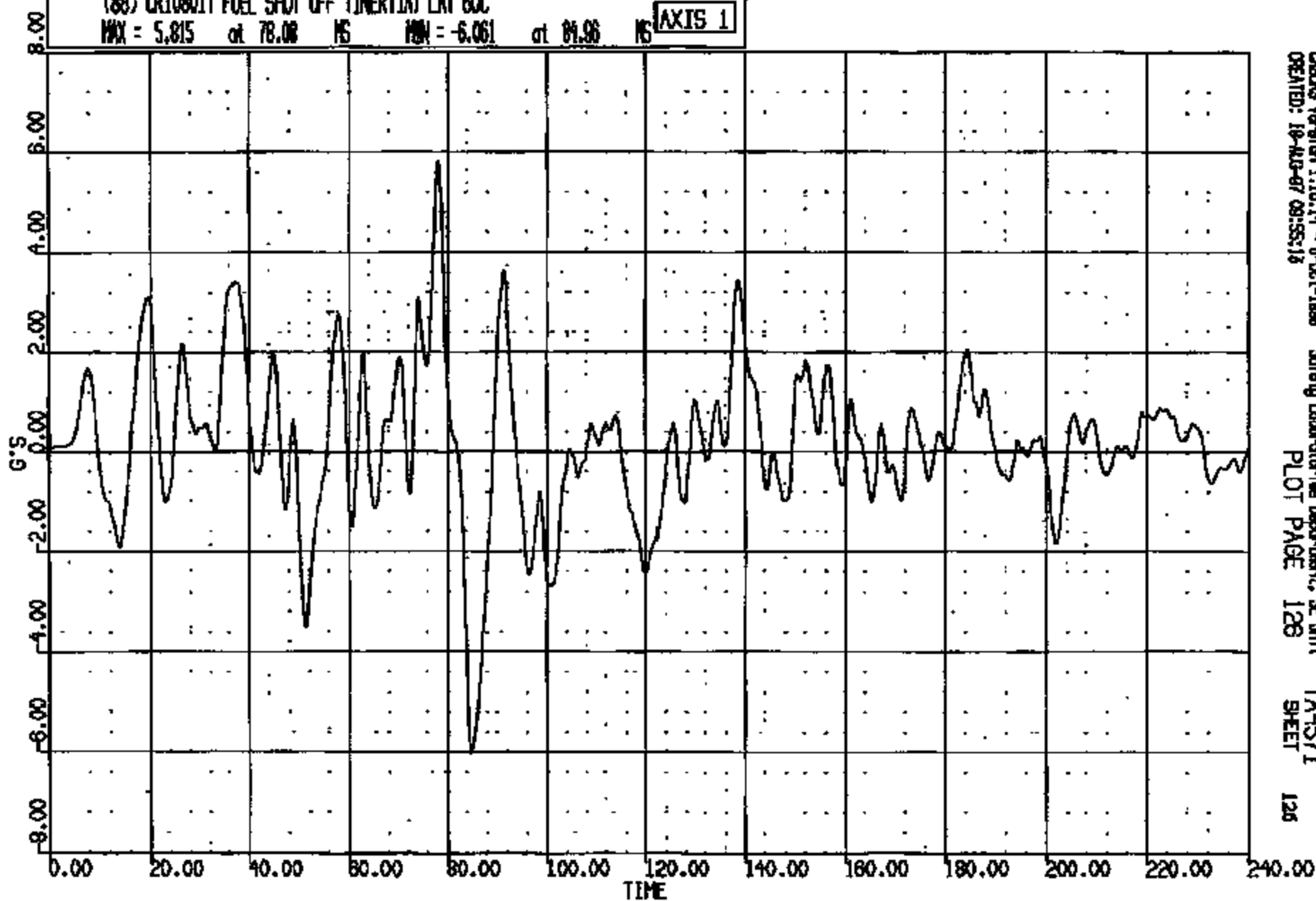


CR R: 10801 TO: TA4571 DATE: 870818 09:18:04  
100X UNKNOWN

(88) CR10801T FUEL SHUT OFF (INERTIA) LAT GOC

MAX = 5.815 at 78.08 MS MIN = -6.061 at 84.98 MS

AXIS 1



CRS Version 1.18.14 - 8-Oct-1988  
CREATED: 18-AUG-87 09:55:12

Safety Laboratories Department, SE Unit  
PLOT PAGE 128

TA4571  
SHEET

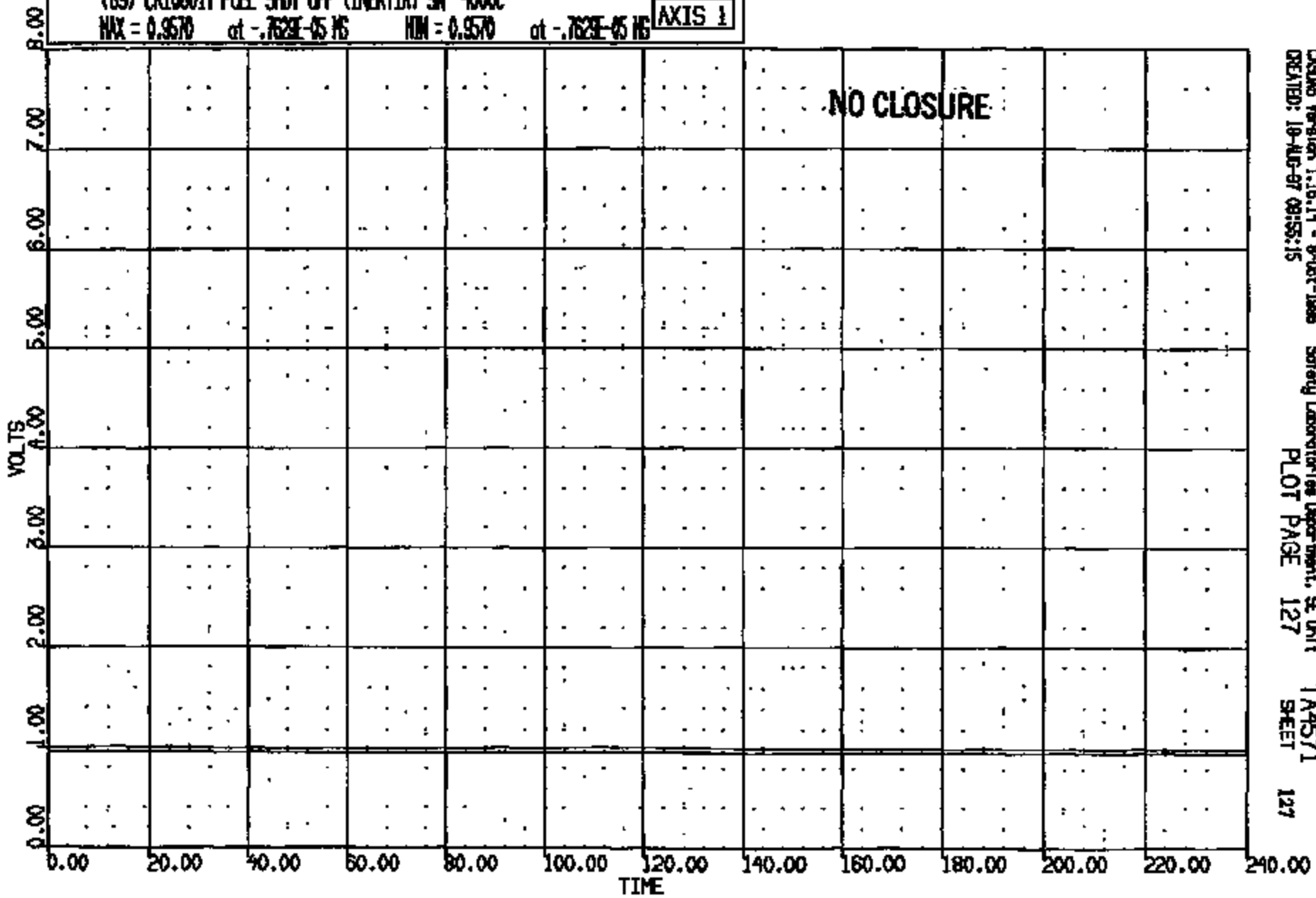
128

CRTS 0010801

CR R: 10801 TO: TA4571 DATE: 870818 09:18:04  
188X UNKNOWN

(89) CR1000YT FUEL SHUT OFF (INERTIA) SN 4000C  
MAX = 0.9570 at -.7623E-05 MS NUM = 0.9570 at -.7623E-05 MS

AXIS 1



CASDMS Version 1.16.14 - 8-Oct-1988  
CREATED: 18-AUG-87 09:55:15

Safety Laboratory Department, SE Unit  
PLOT PAGE 127

TA4571  
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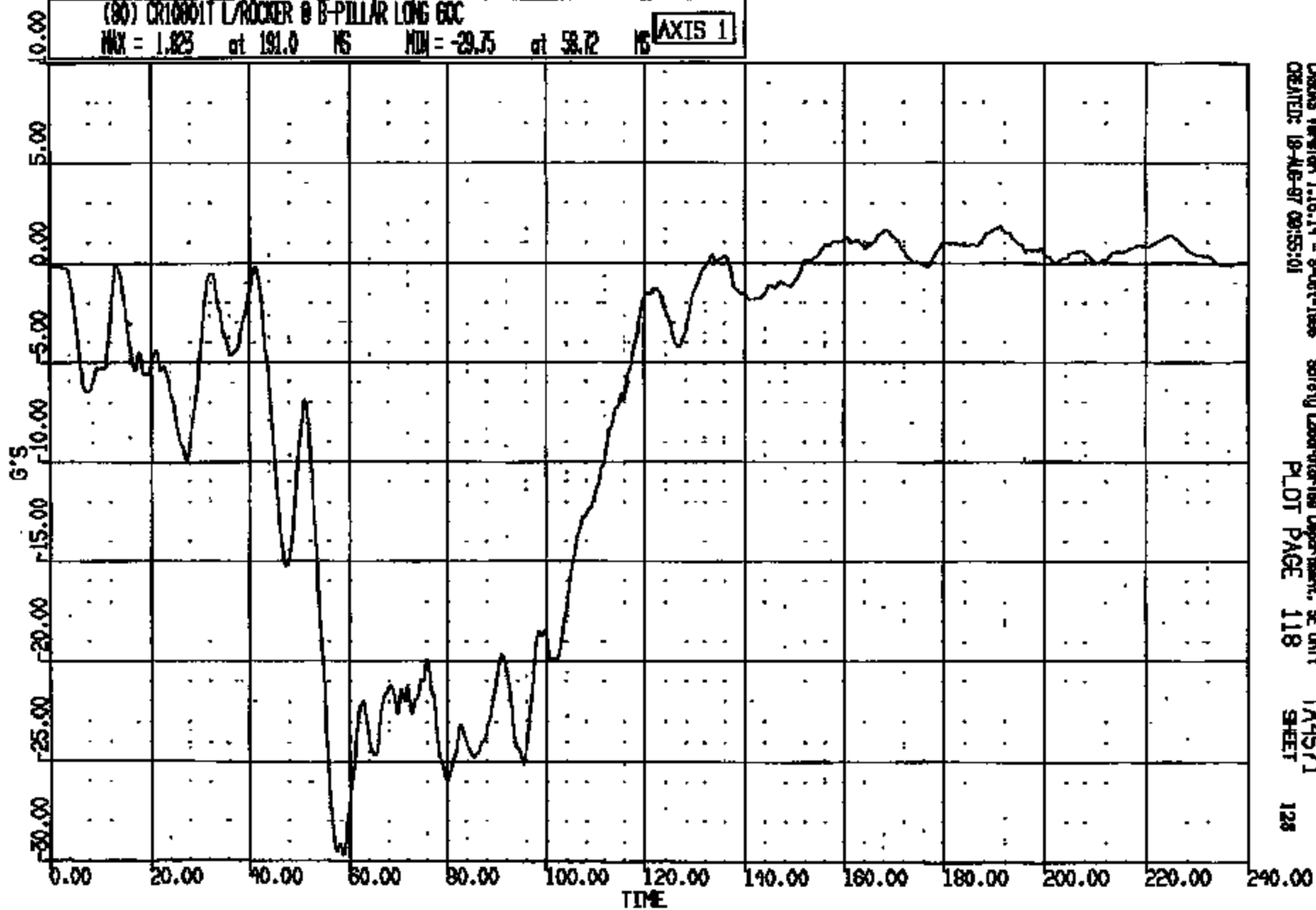
CRTS 0010801

CR R: 10801 TO: TA4571 DATE: 970818 08:18:04  
188X UNKNOWN

(80) CR1000IT L/ROCKER @ B-PILLAR LONG GDC

MAX = 1.823 at 191.0 MS MIN = -29.75 at 58.72 MS

AXIS 1



CRSIS Version 1.16.14 - 8-Oct-1998  
CREATED: 18-AUG-97 09:55:01

Safety Laboratories Department, SE Unit  
PLOT PAGE 118

TA4571  
SHEET

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CRITS 0010801

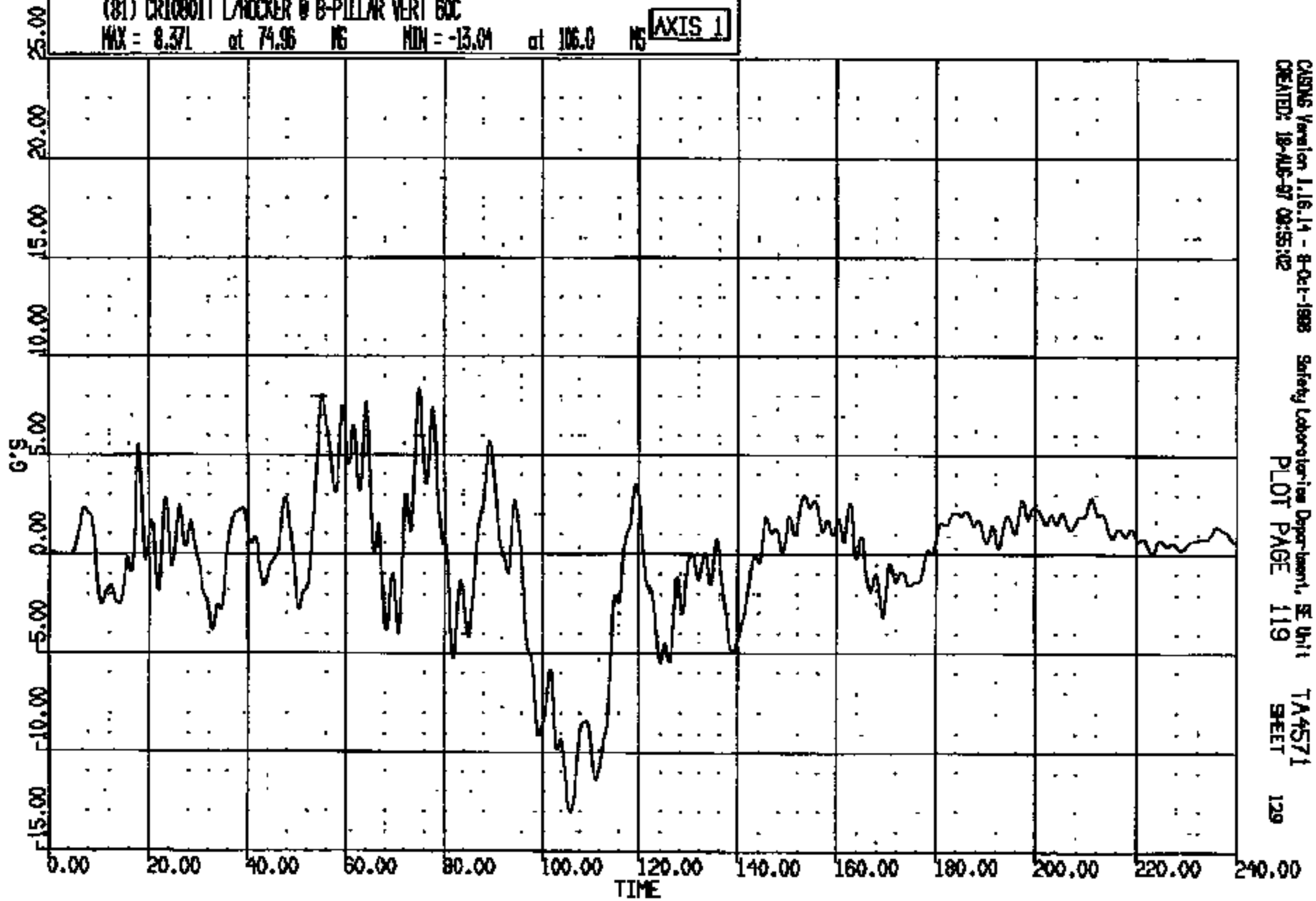


CR R: 10801 TO: TA4571 DATE: 870818 09:18:04  
199X UNKNOWN

(81) CR10801 L/ROCKER @ B-PILLAR VERT 60C

MAX = 8.371 at 74.96 MS MIN = -13.04 at 106.0 MS

AXIS 1



CRTS 0010801

CADDS Version 1.16.14 - 8-Oct-1988  
CREATED: 18-AUG-87 08:55:02

Safety Laboratories Department, SE Unit  
TA4571  
PLOT PAGE 119 SHEET

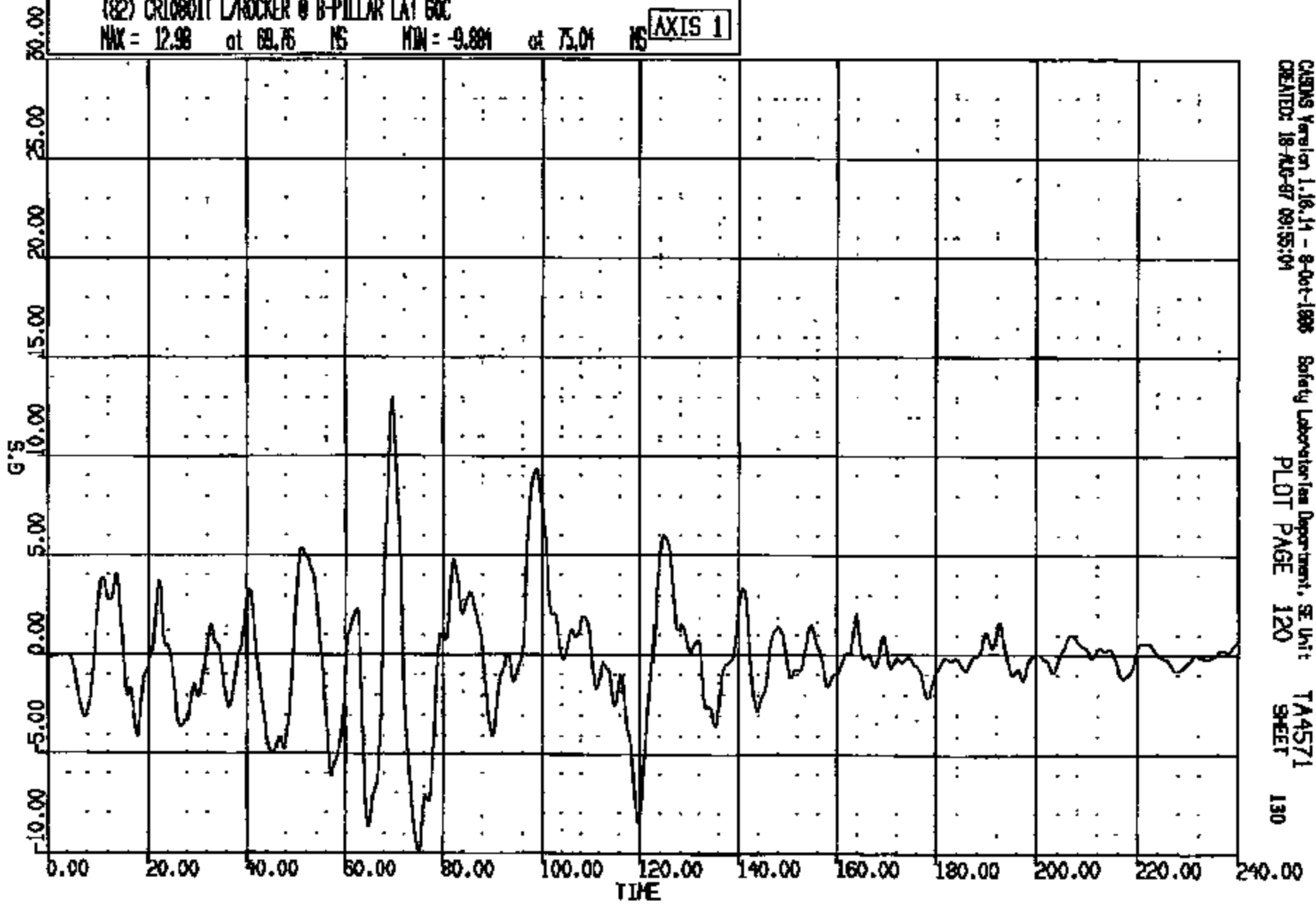
129

CR #: 10801 TO: TA4571 DATE: 870818 09:18:04  
188X UNKNOWN

(82) CR10801T L/ROCKER @ B-PILLAR LAT 60C

MAX = 12.98 at 68.76 NS MIN = -9.884 at 75.01 NS

AXIS 1



CRS Version 1.16.14 - 8-Oct-1988  
CREATED: 18-AUG-87 09:55:04

Safety Laboratories Department, SE Unit:  
PLOT PAGE 120

TA4571  
SHEET 130

CRTS 0010801

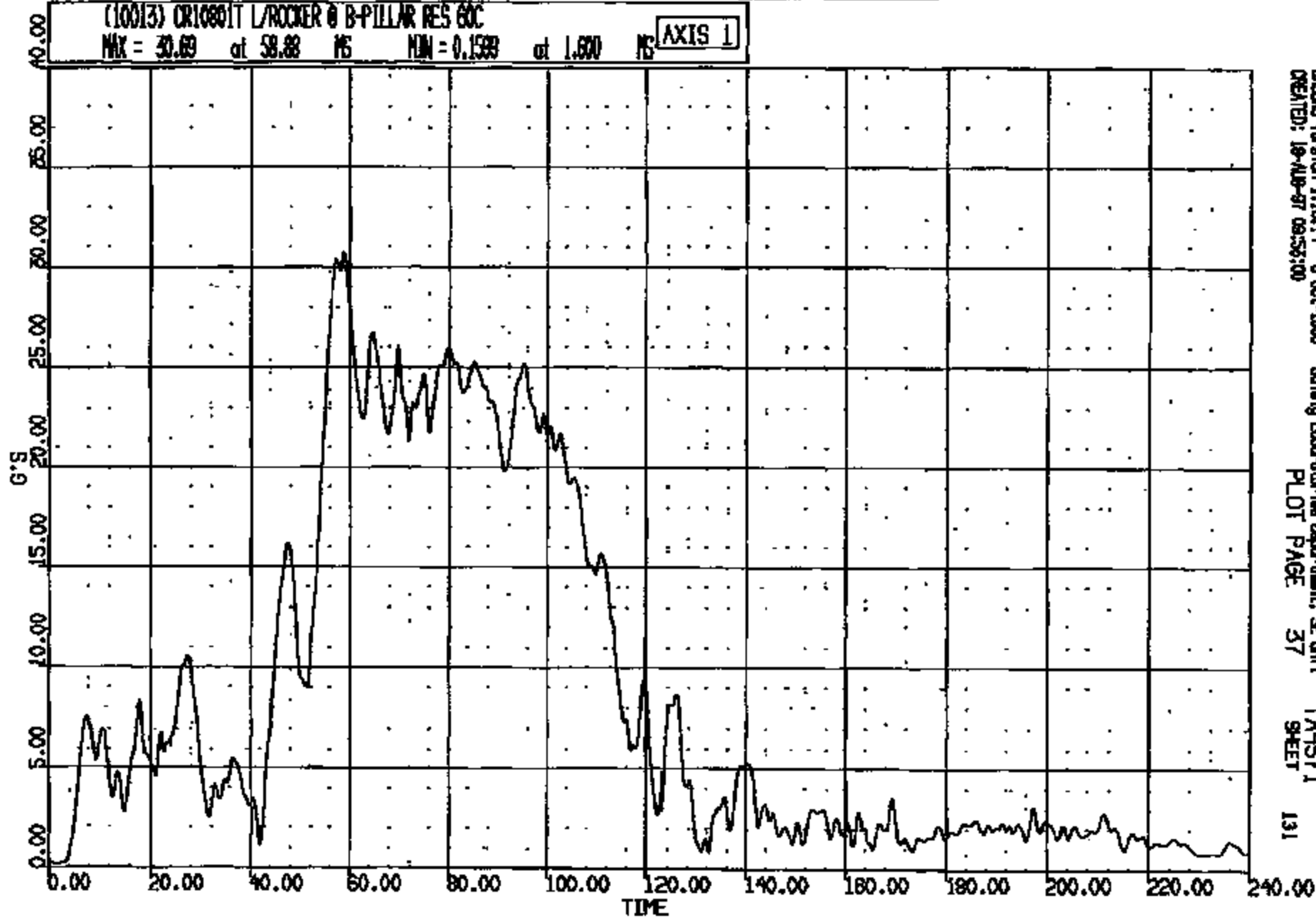
CR R: 10801 TO: TA4571 DATE: 870818 09:18:04

100X UNKNOWN

(10013) CR10801T L/ROCKER @ B-PILLAR RES 60C

MAX = 30.69 at 58.88 MS MIN = 0.1589 at 1.600 MS

AXIS 1



CRSIS Version 1.16.14 - 8-Oct-1988  
CREATED: 18-AUG-87 09:55:00

Safety Laboratories Department, SE Unit  
PLOT PAGE 37

TA4571  
SHEET

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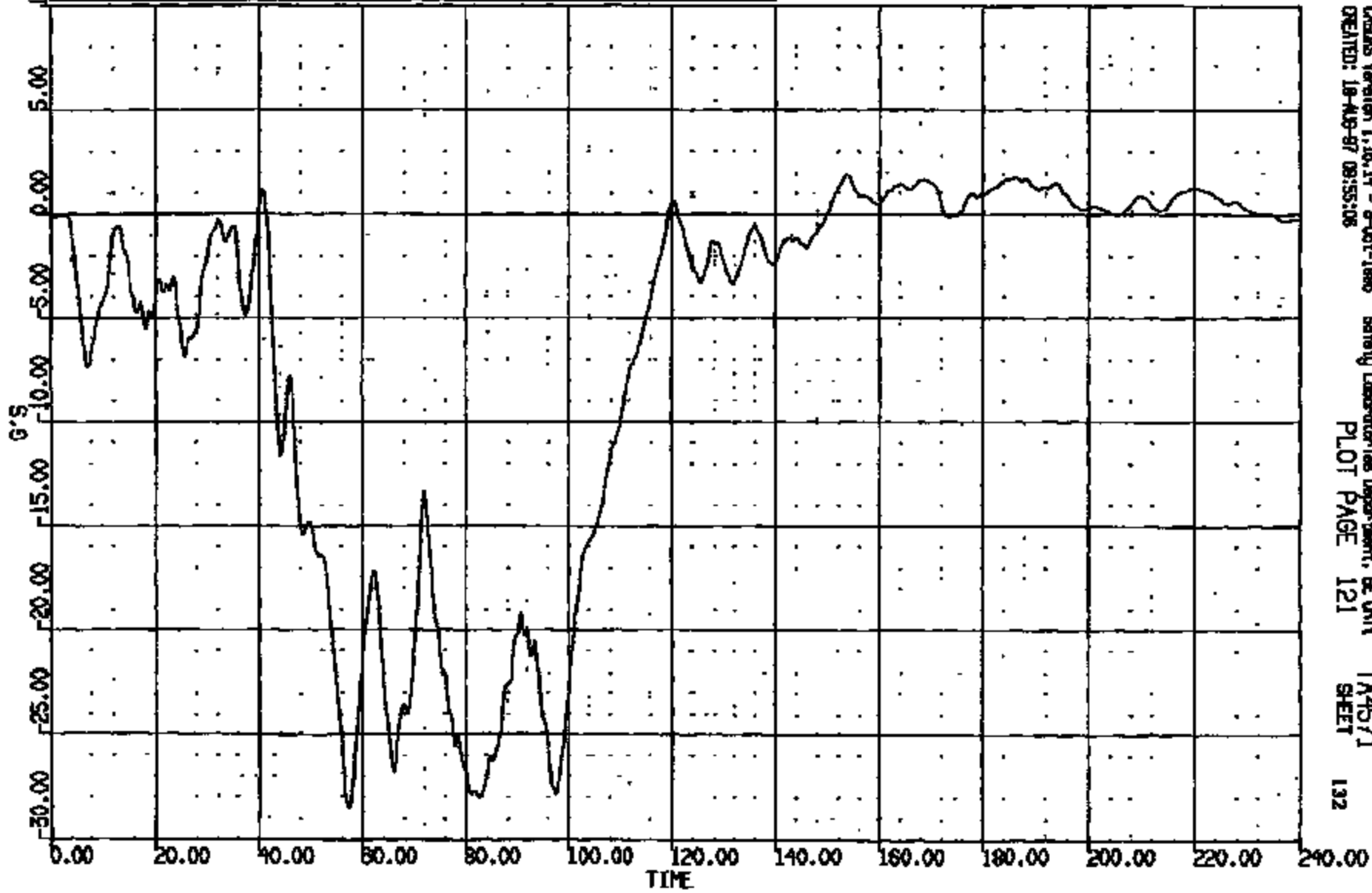
CRTS 0010801

CR R: 10801 TD: TA4571 DATE: 970818 09:18:04  
100X UNKNOWN

(83) CR10801T R/ROCKER @ B-PILLAR LONG GDC

MAX = 1.896 at 153.4 MS MIN = -28.51 at 57.28 MS

AXIS 1



CRSIS Version 1.18.14 - 8-Oct-1998  
CREATED: 18-AUG-97 09:55:08

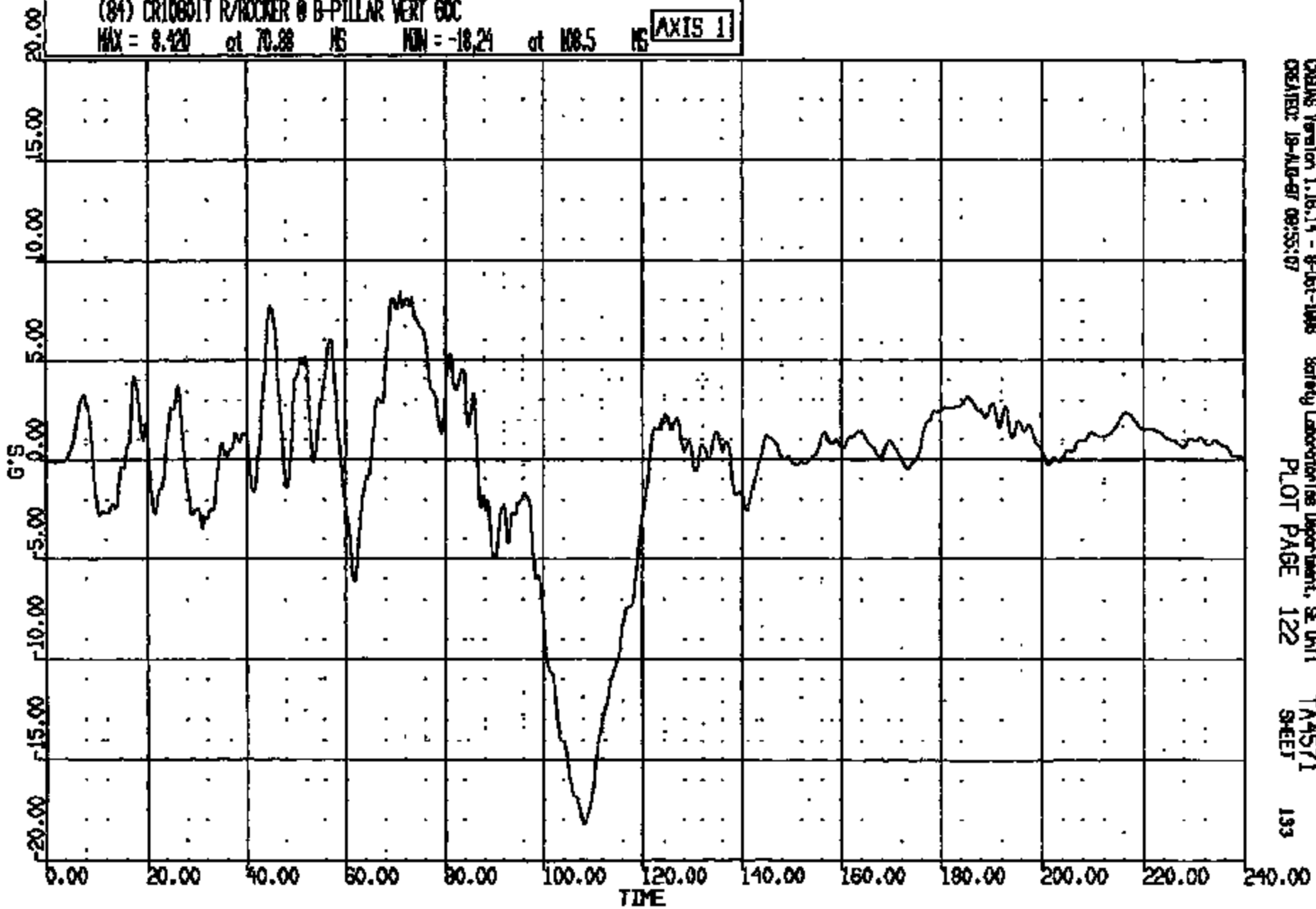
Safety Laboratories Department, BE Unit  
PLOT PAGE 121

TA4571  
SHEET 132

CRTS 0010801

CR R: 10801 TO: TA4571 DATE: 970918 09:18:04  
199X UNKNOWN

(84) CR10801T R/ROCKER @ B-PILLAR VERT GDC  
MAX = 8.420 at 70.88 NS MIN = -18.24 at 108.5 NS **AXIS 1**

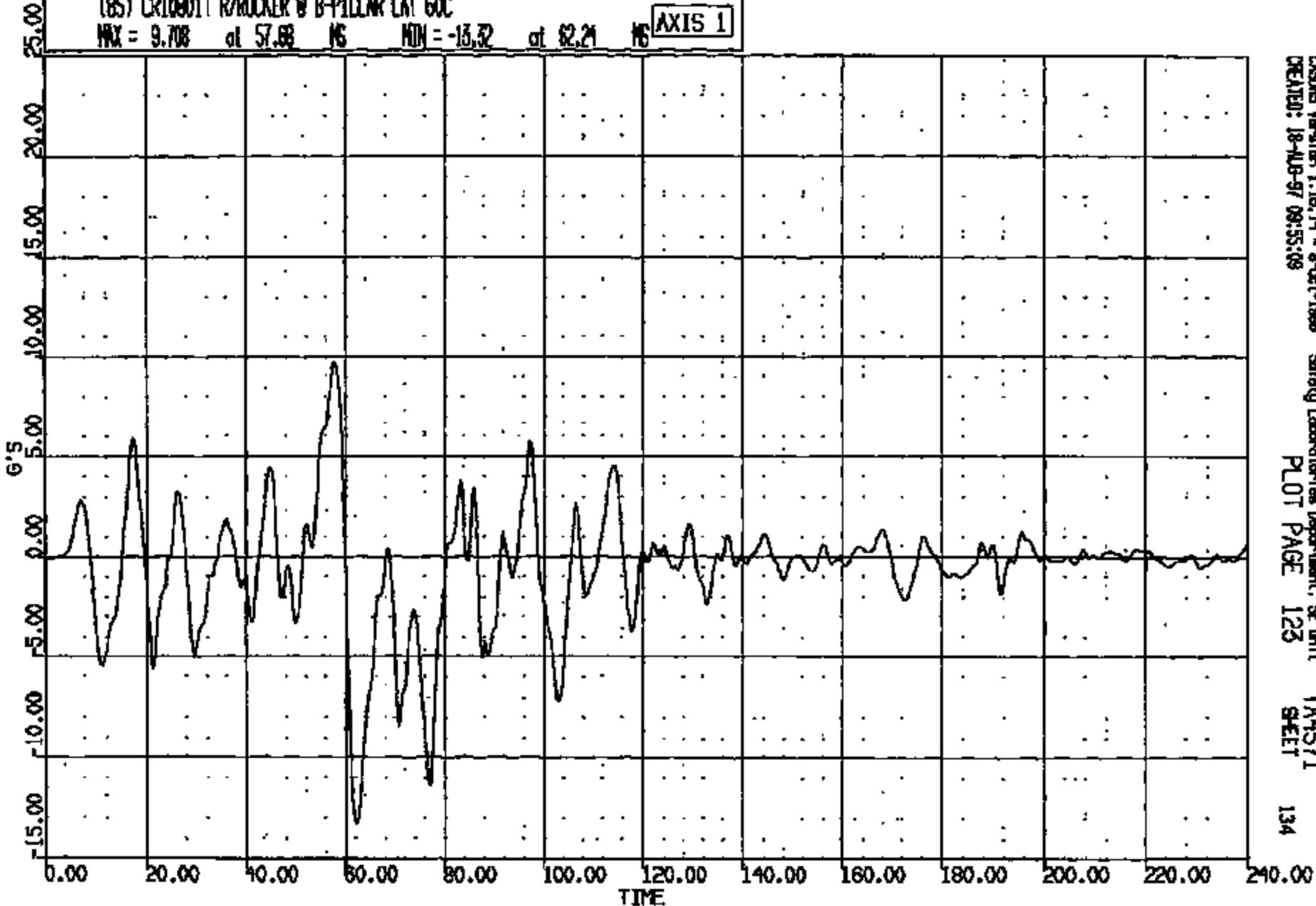


CRS Version 1.16.14 - 8-Oct-1998 Safety Laboratories Department, SE Unit  
CREATED: 18-APR-97 09:55:07 PLOT PAGE 122 TA4571 SHEET 193

CRTS 0010801

CR R: 10801 TO: TA4571 DATE: 870818 09:16:04  
100X UNKNOWN

(85) CR10801T R/ROCKER @ B-PILLAR LAT 60C  
MAX = 9.708 at 57.68 MS MIN = -13.52 at 62.21 MS **AXIS 1**



CRS015 Version 1.16.14 - 8-Dec-1988 Safety Laboratories Department, SE Unit  
CREATED: 18-AUG-97 09:55:08  
PLOT PAGE 123  
TA4571  
SHEET 134

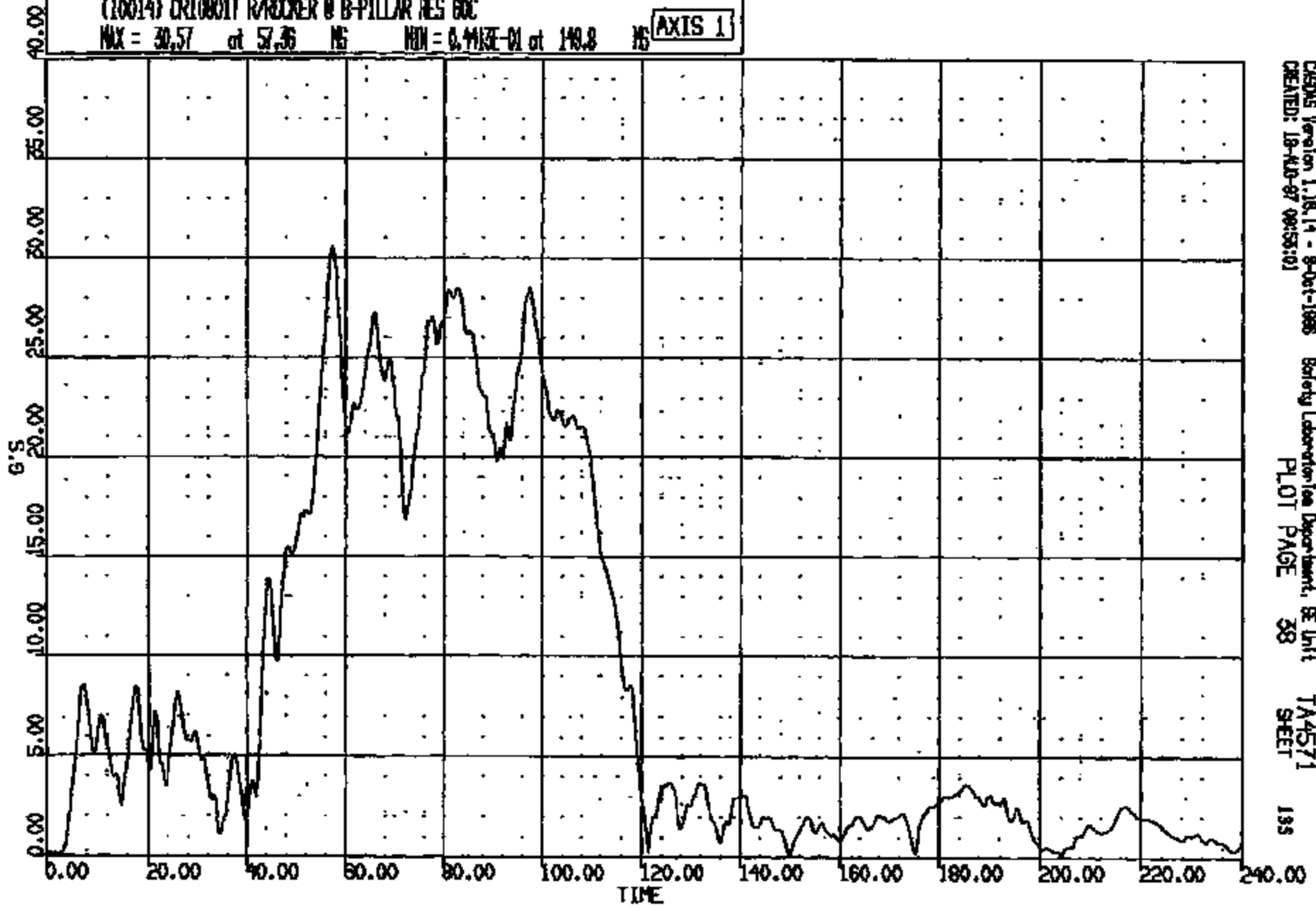
CR10801

CR R: 10801 TO: TA4571 DATE: 970818 09:18:04  
100X UNKNOWN

(10014) CRIBBIT R/ROCKER @ B-PILLAR RES GOC

MAX = 30.57 at 57.36 MS MIN = 0.443E-01 at 149.8 MS

AXIS 1



CADDS Version 1.18.14 - 8-Oct-1986  
CREATED: 18-AUG-87 09:55:01

Safety Laboratory Department, BE Unit  
PLOT PAGE 38

TA4571  
SHEET

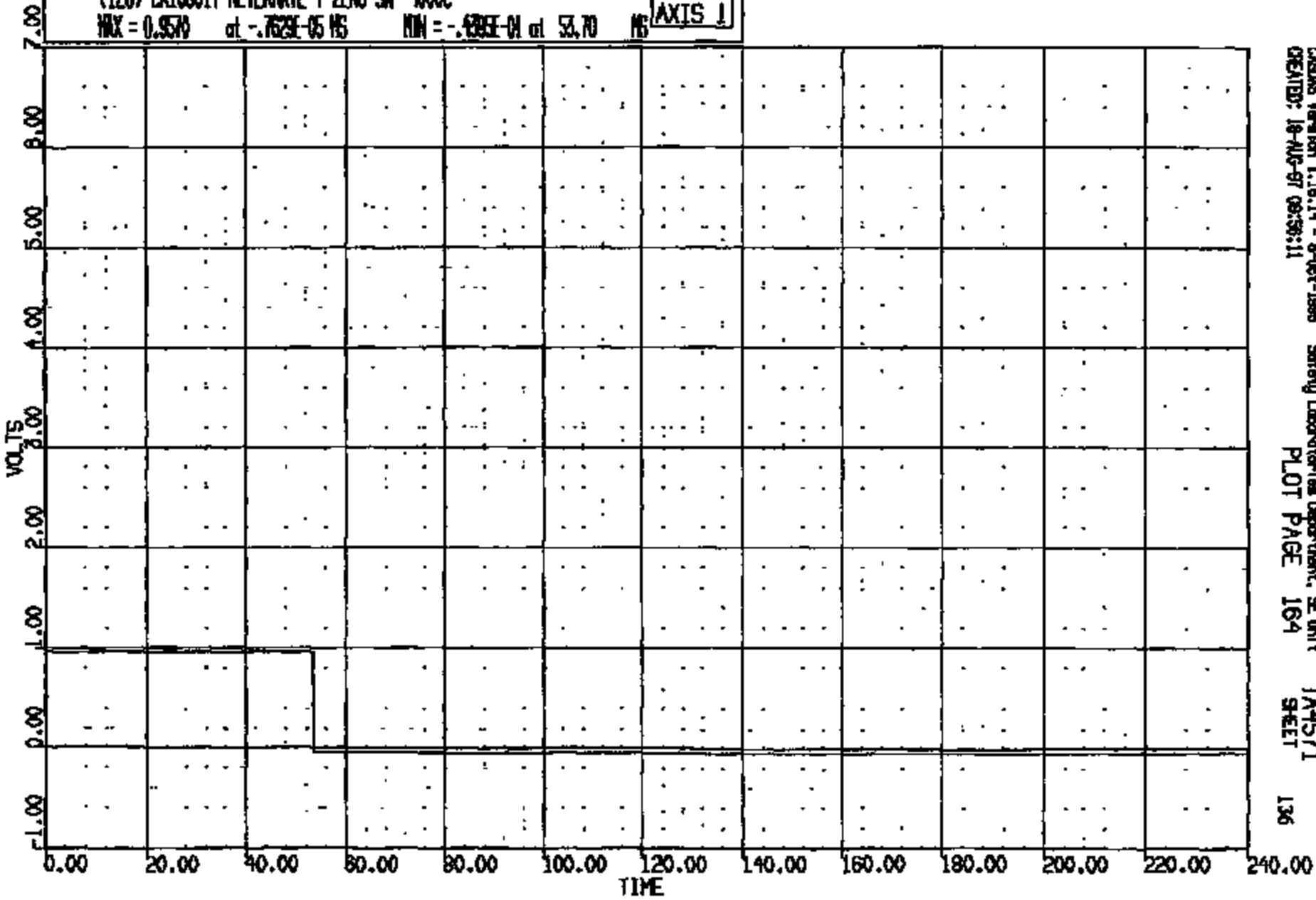
185

CRTS 0010801

CR R: 10801 TO: TA4571 DATE: 870818 09:16:04  
189X UNKNOWN

(126) CR10801T ALTERNATE T-ZERO SM 4000  
MAX = 0.9570 at -.7629E-05 MS MIN = -.638E-01 at 53.70 MS

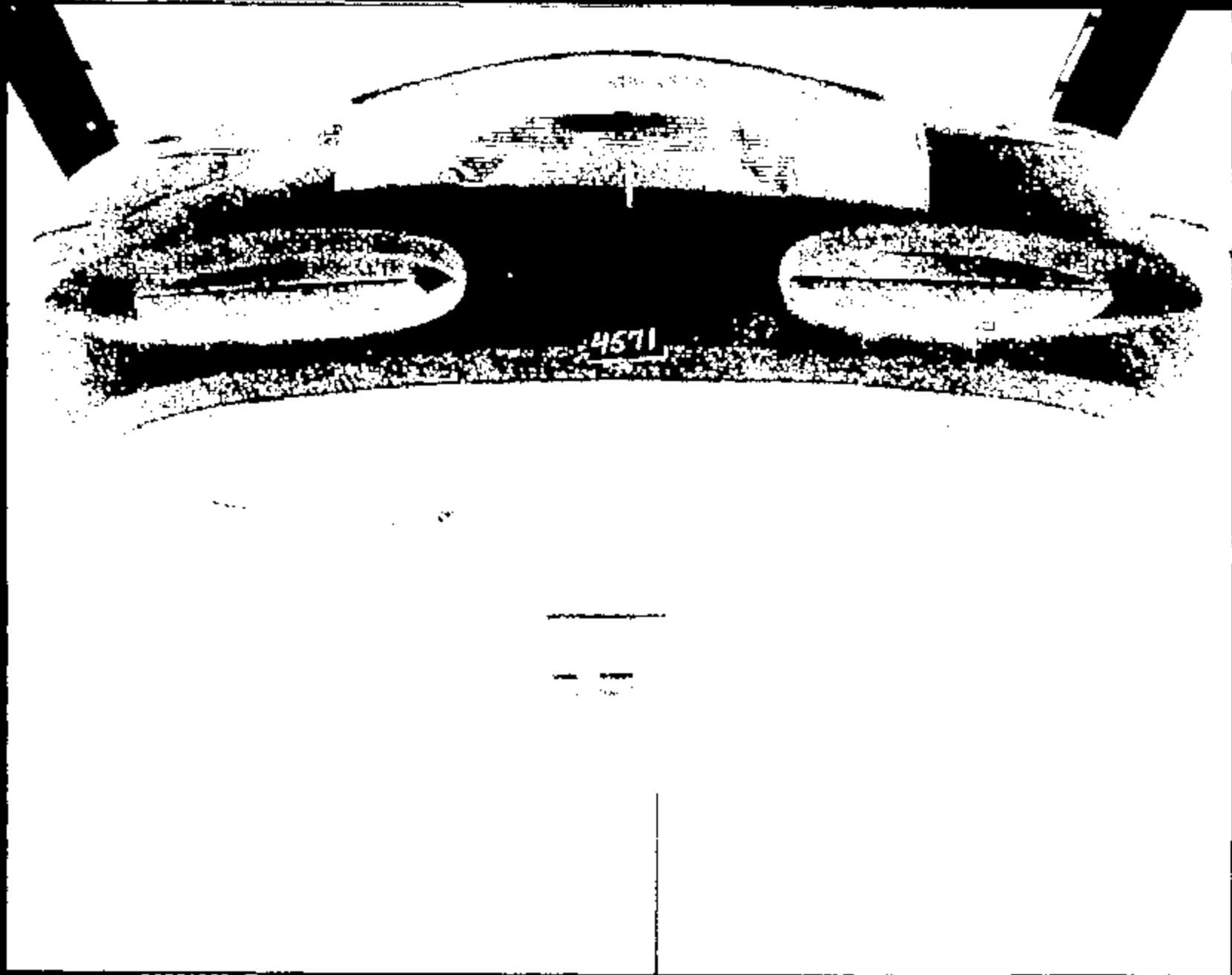
AXIS 1



CRS08 Version 1.18.14 - 8-Oct-1988 Safety Laboratories Department, SE Unit  
CREATED: 18-AUG-87 09:56:11 PLOT PAGE 164 TA4571 SHEET 136

CRIS 0010801





CRTS 0010801

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10801001.JPG



Name: 10801002.JPG

CRTS 0010801



Image 1

10801003.JPG

CRTS 0010801



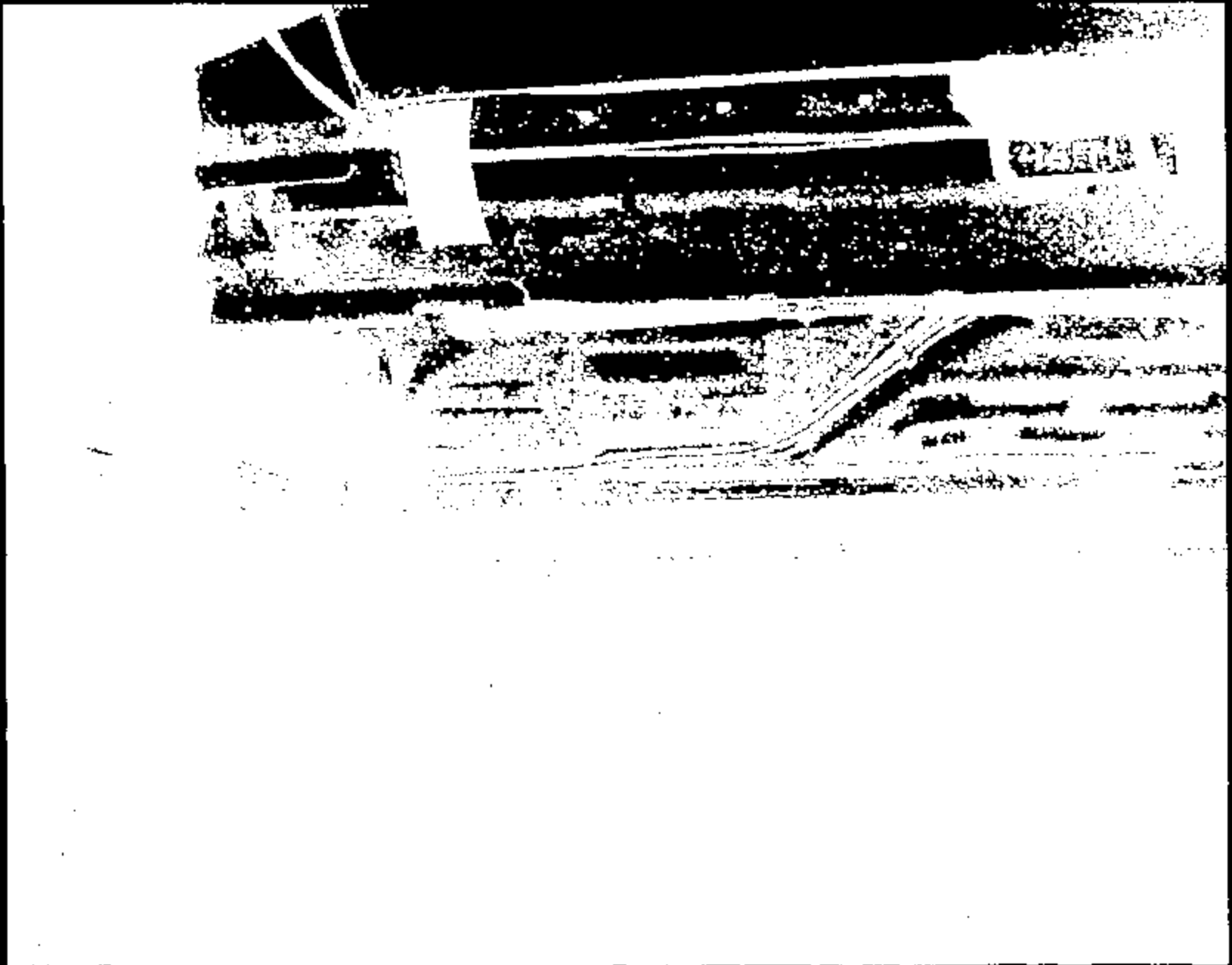
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CRTS 0010801



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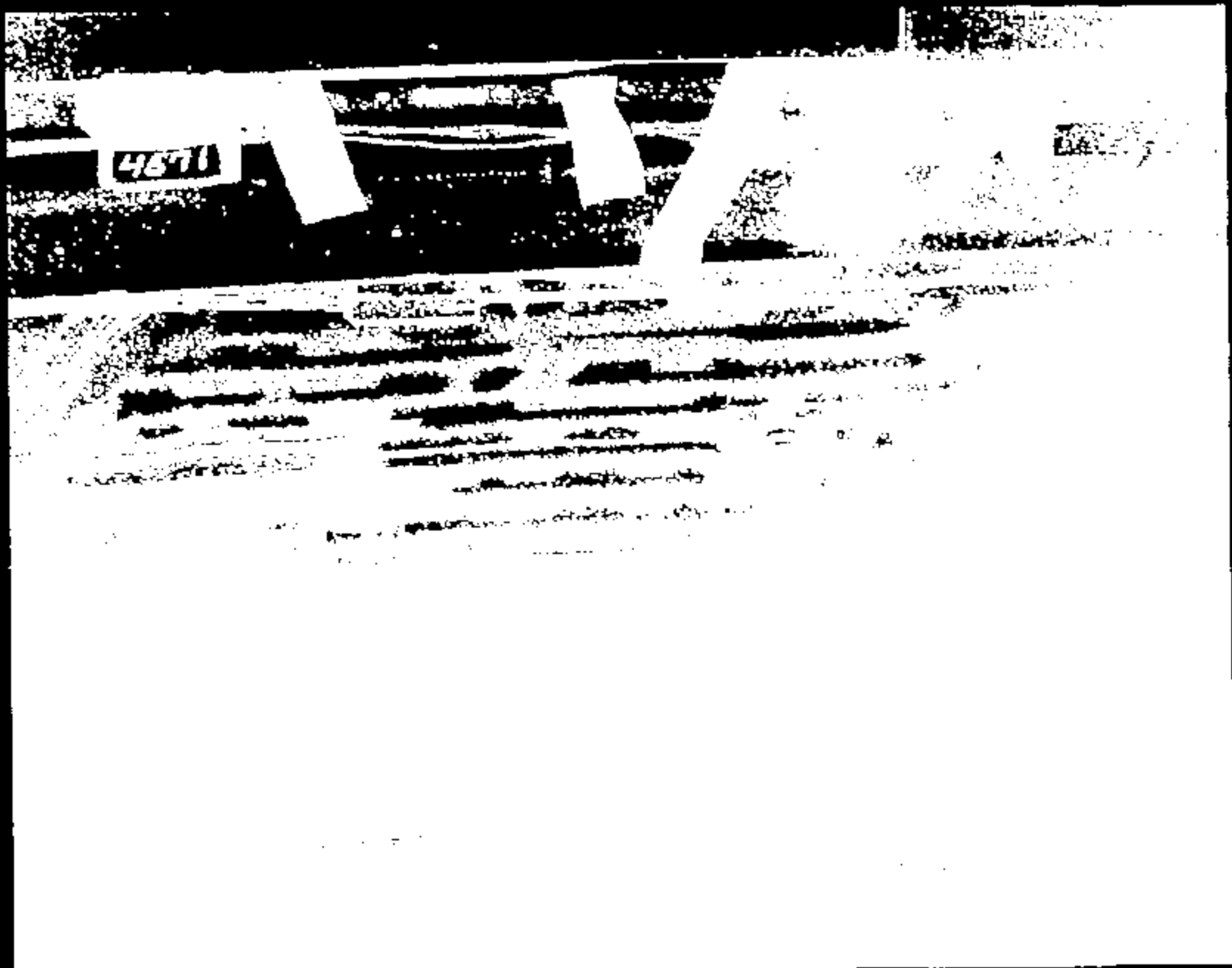
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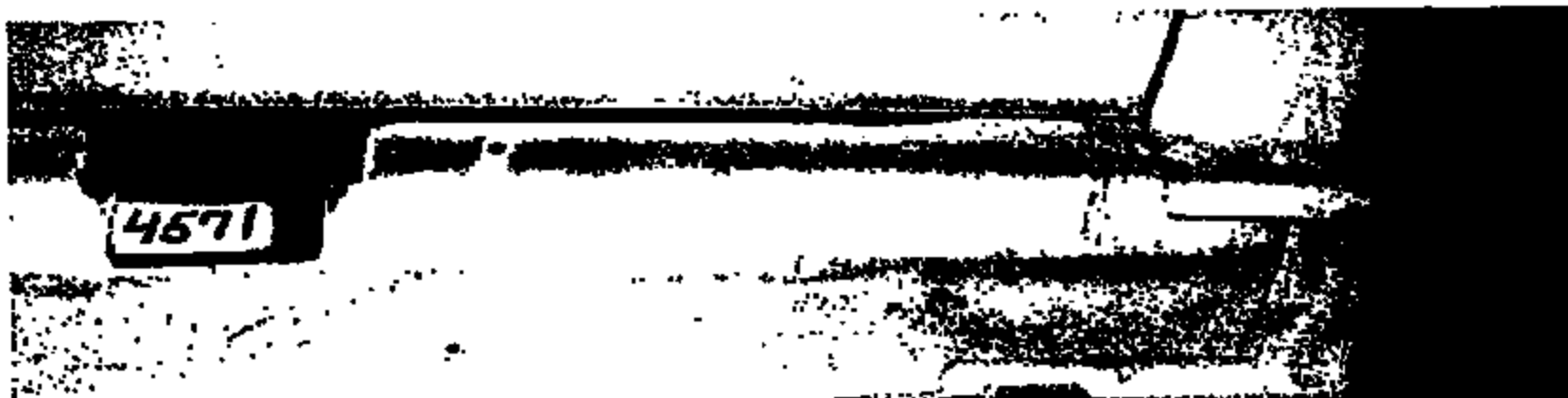
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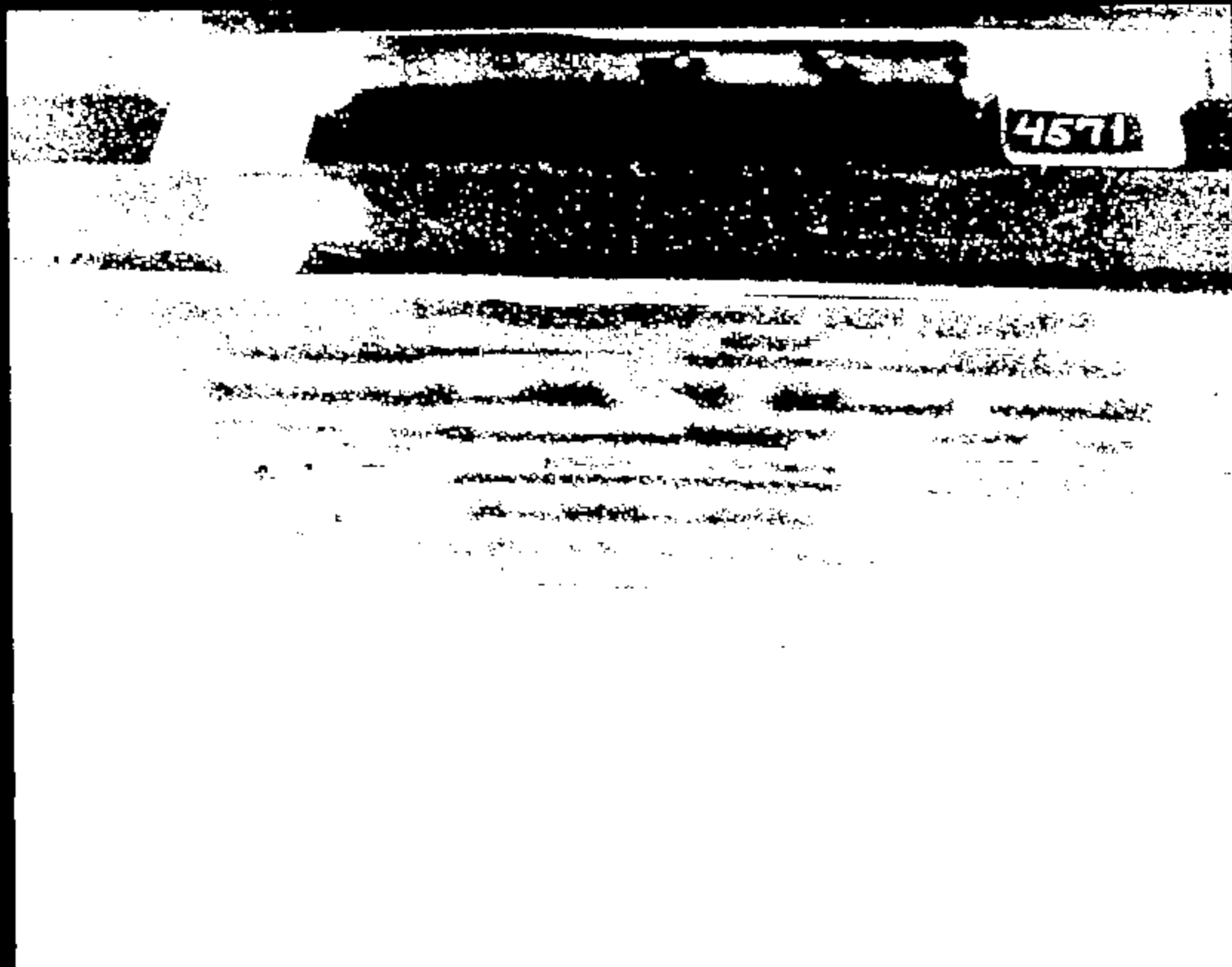
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CRTS 0010801





4571

CRTS 0010801

Name :

10801009.JPG



CRTS 0010801

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CRTS 0010801

Name:

10801011.JPG

CRTS 0010801



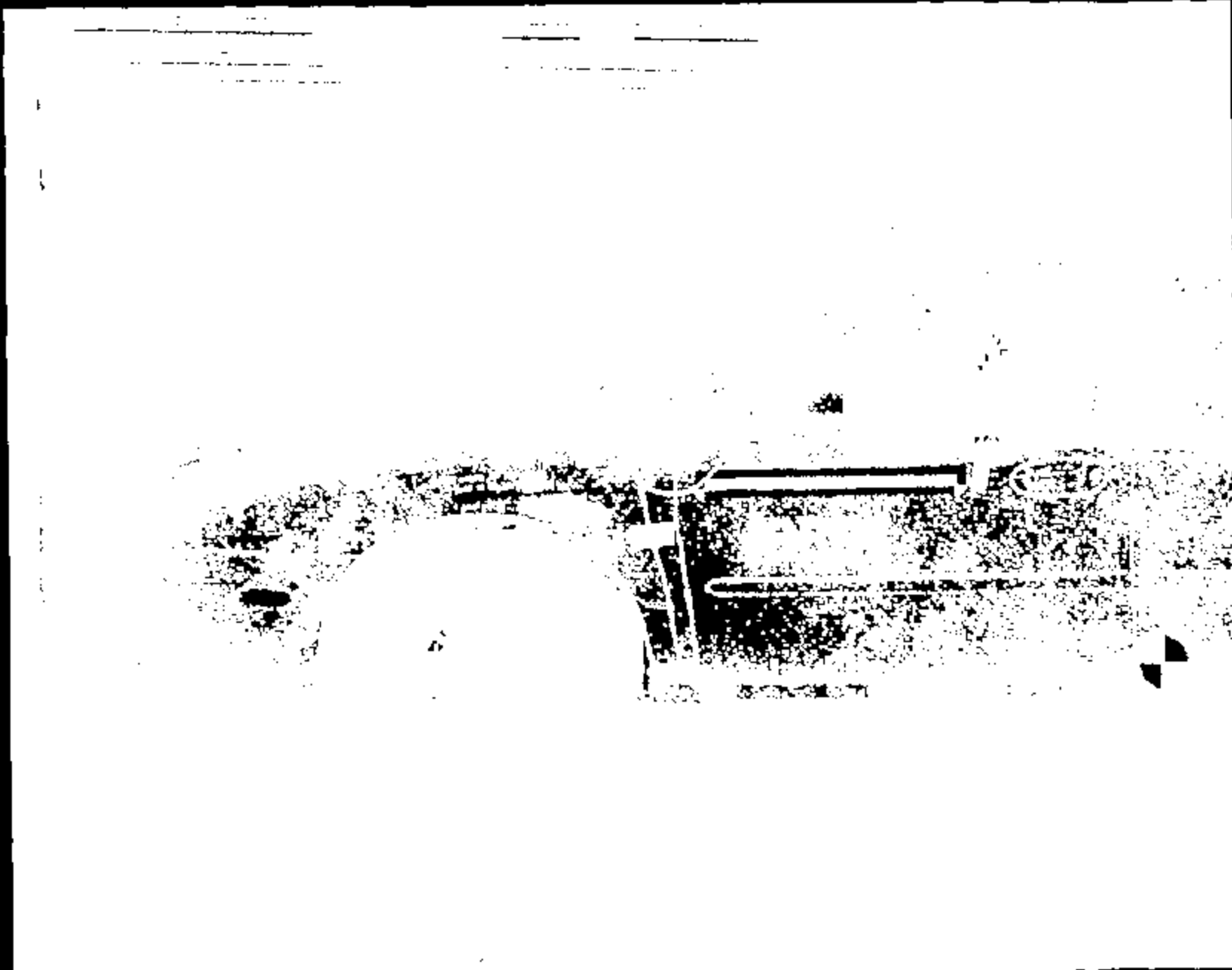
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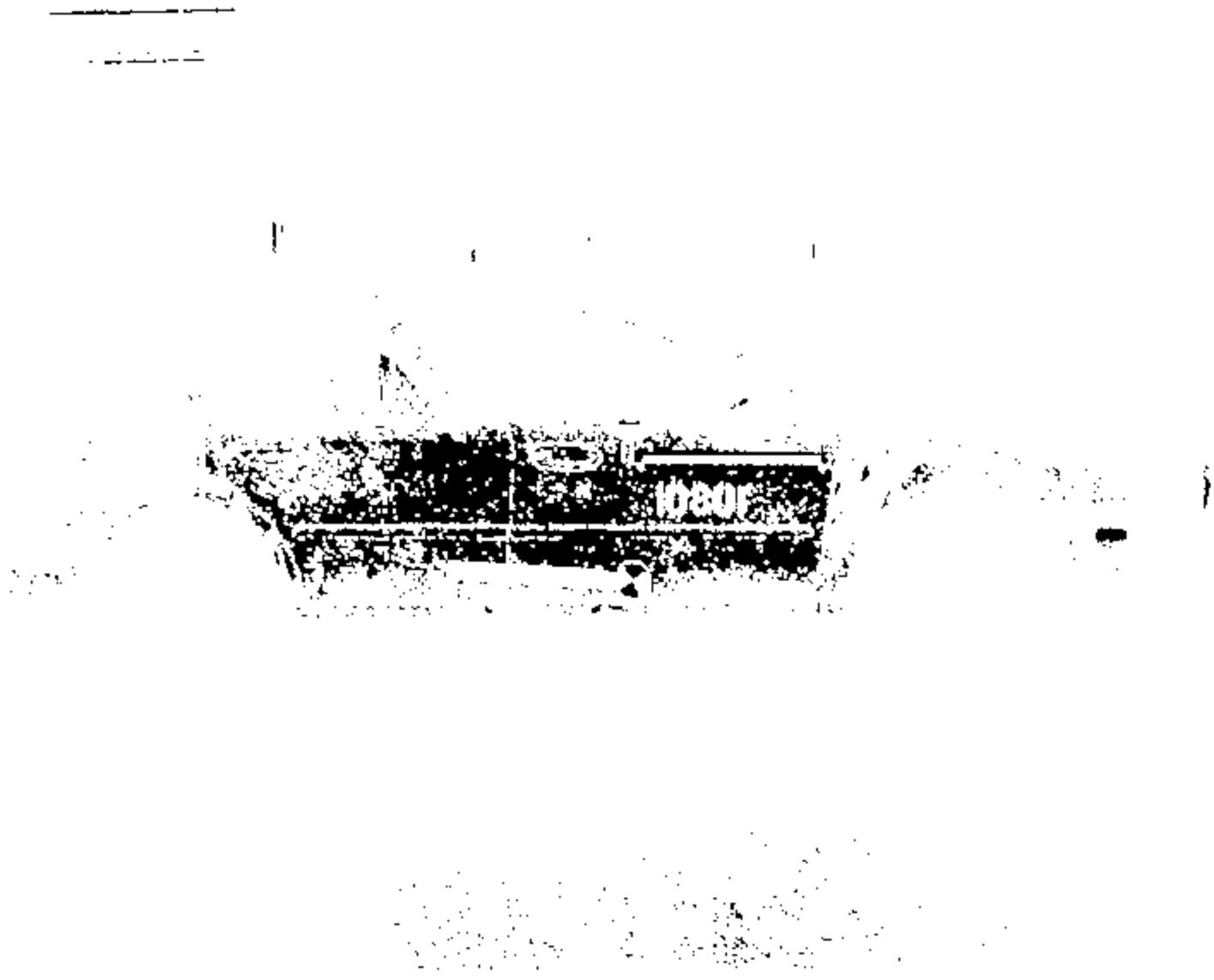
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CRTS 0010801



CRTS 0010801

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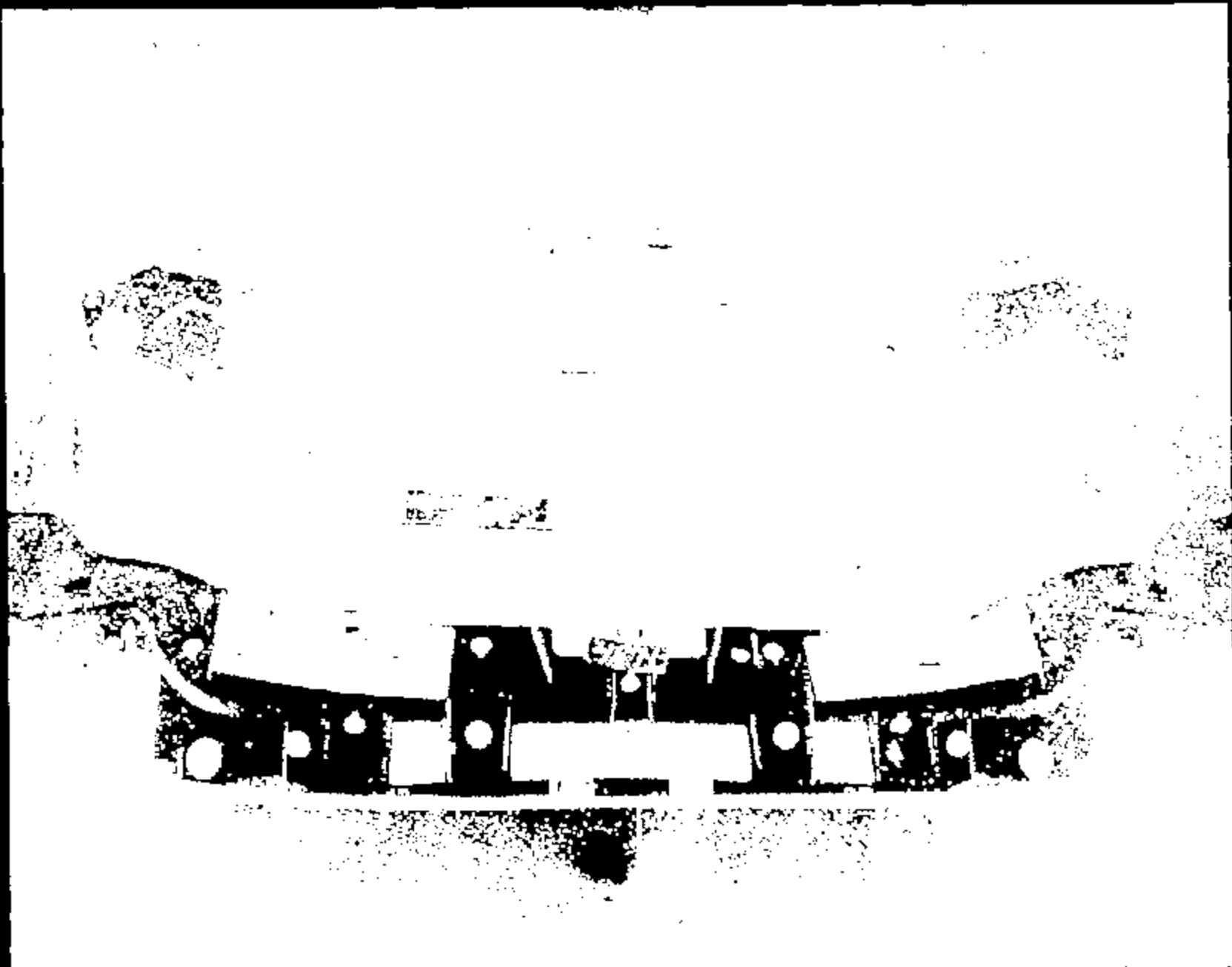


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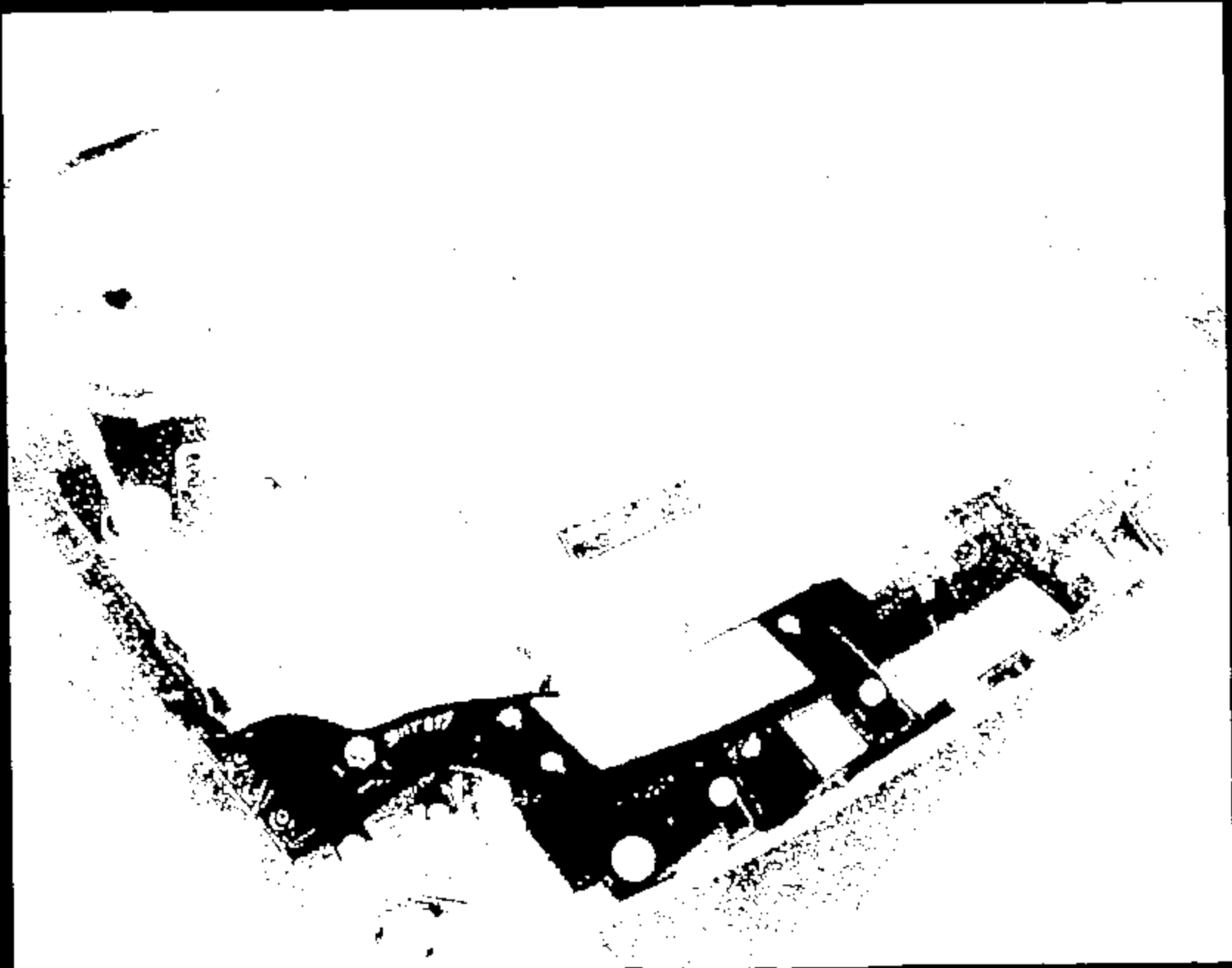
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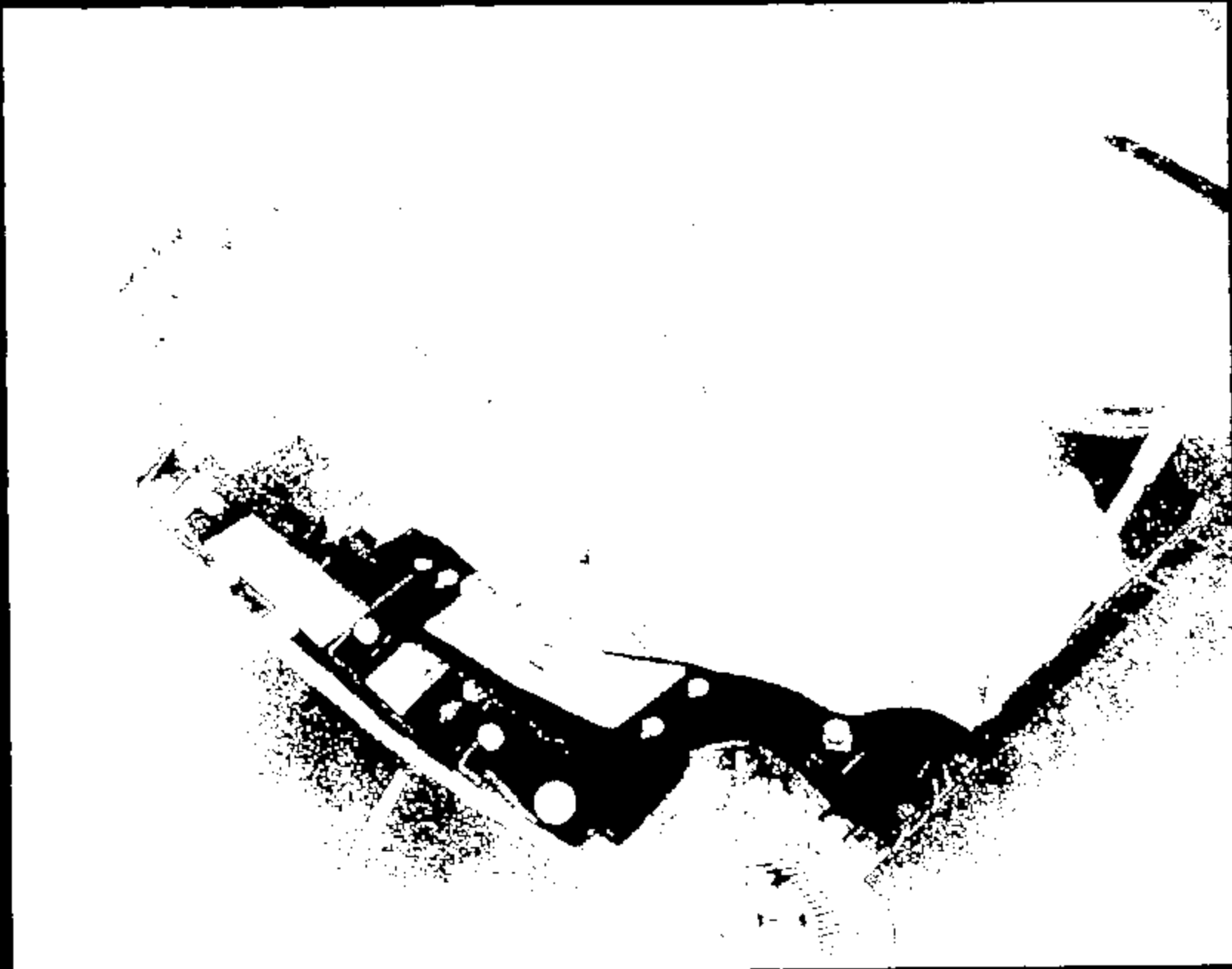
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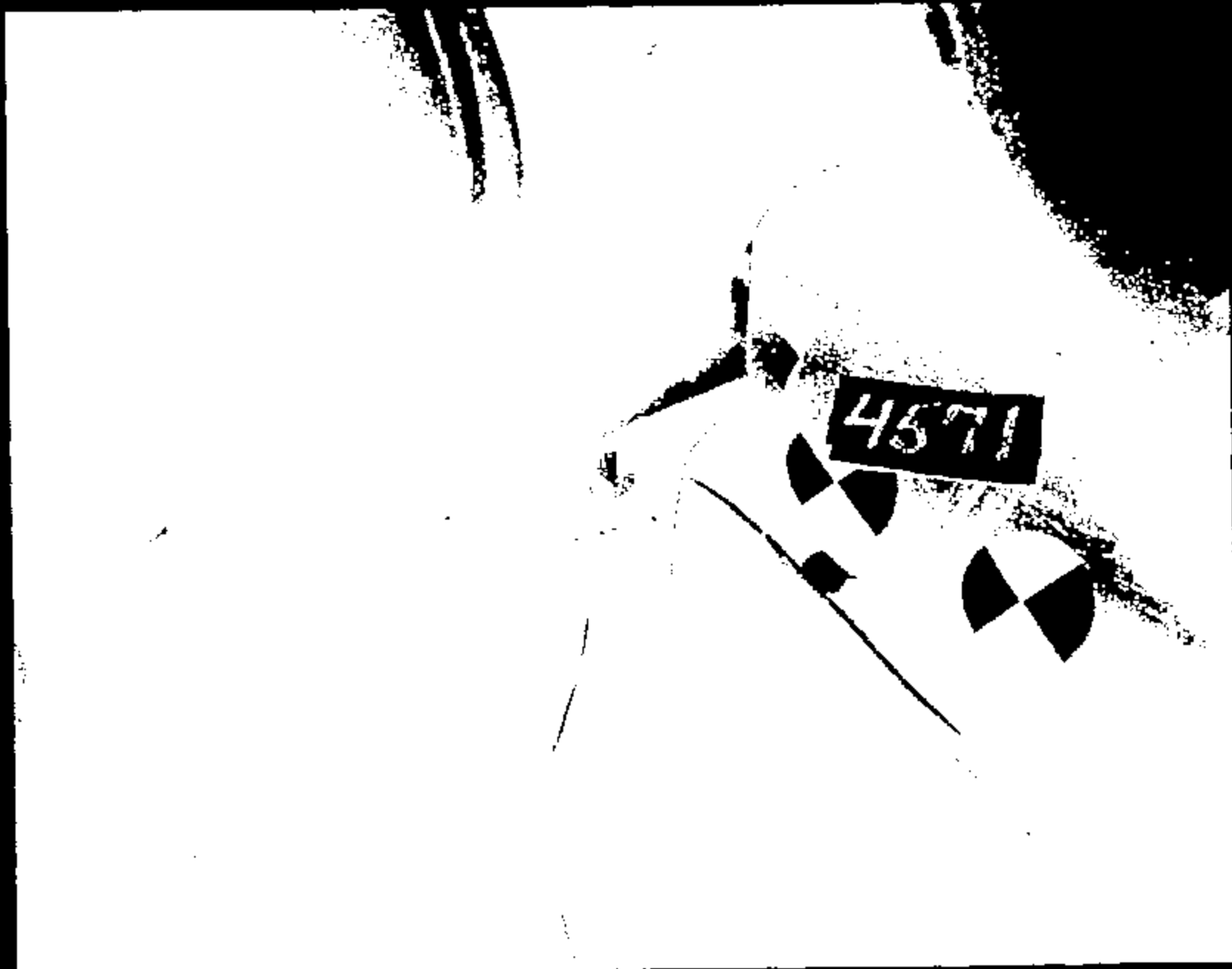
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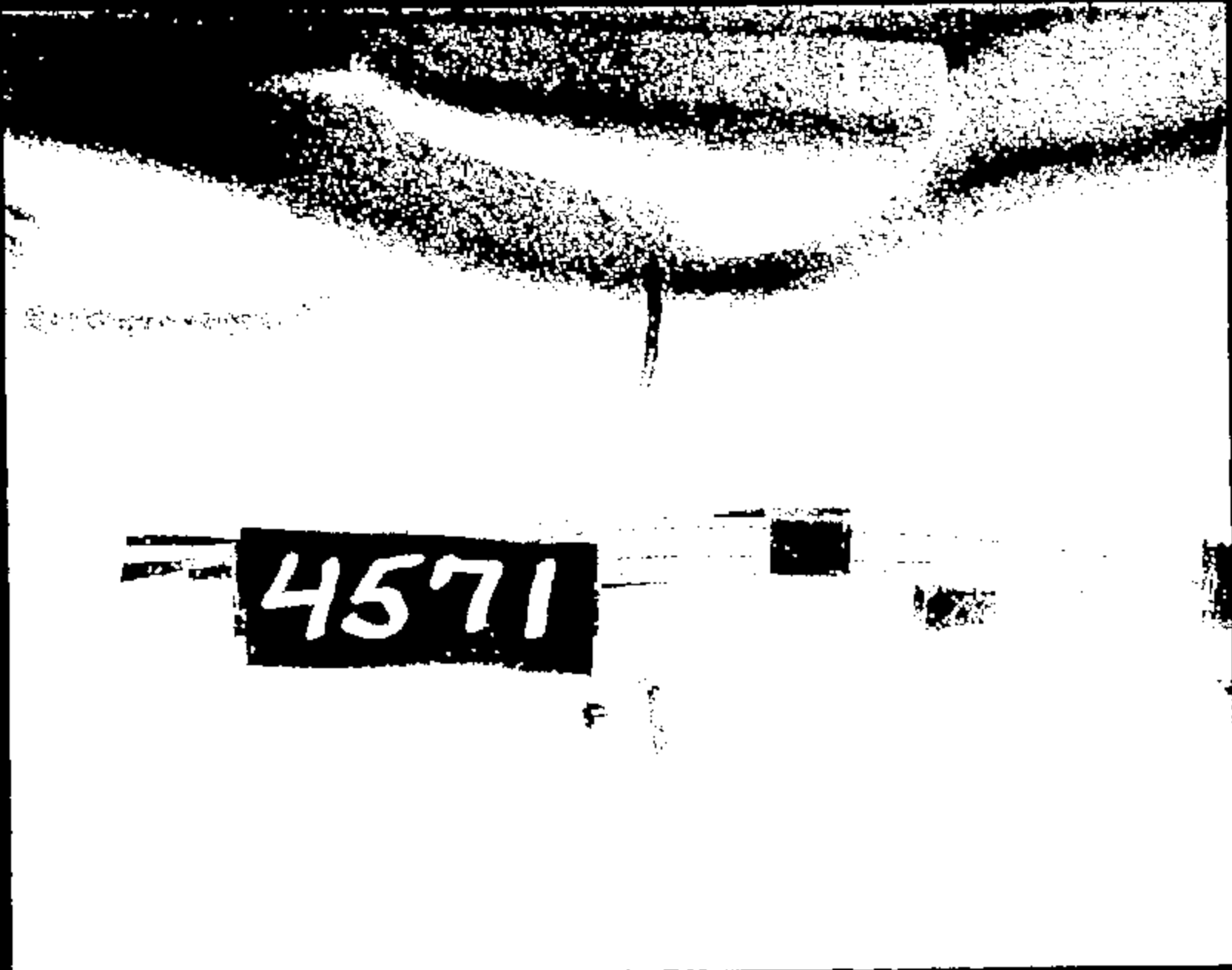
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SECRET



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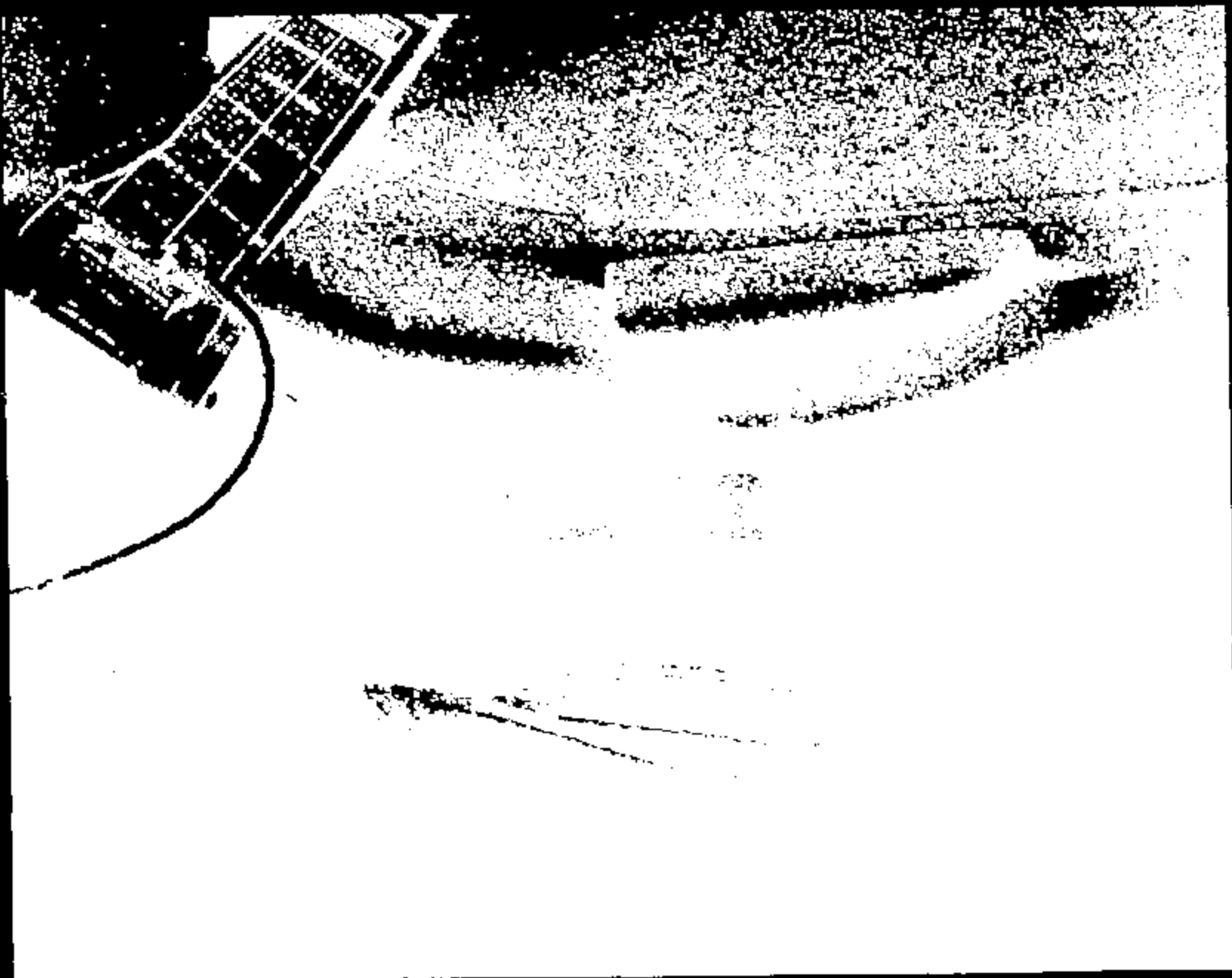




Wamo :

10901028.JPG

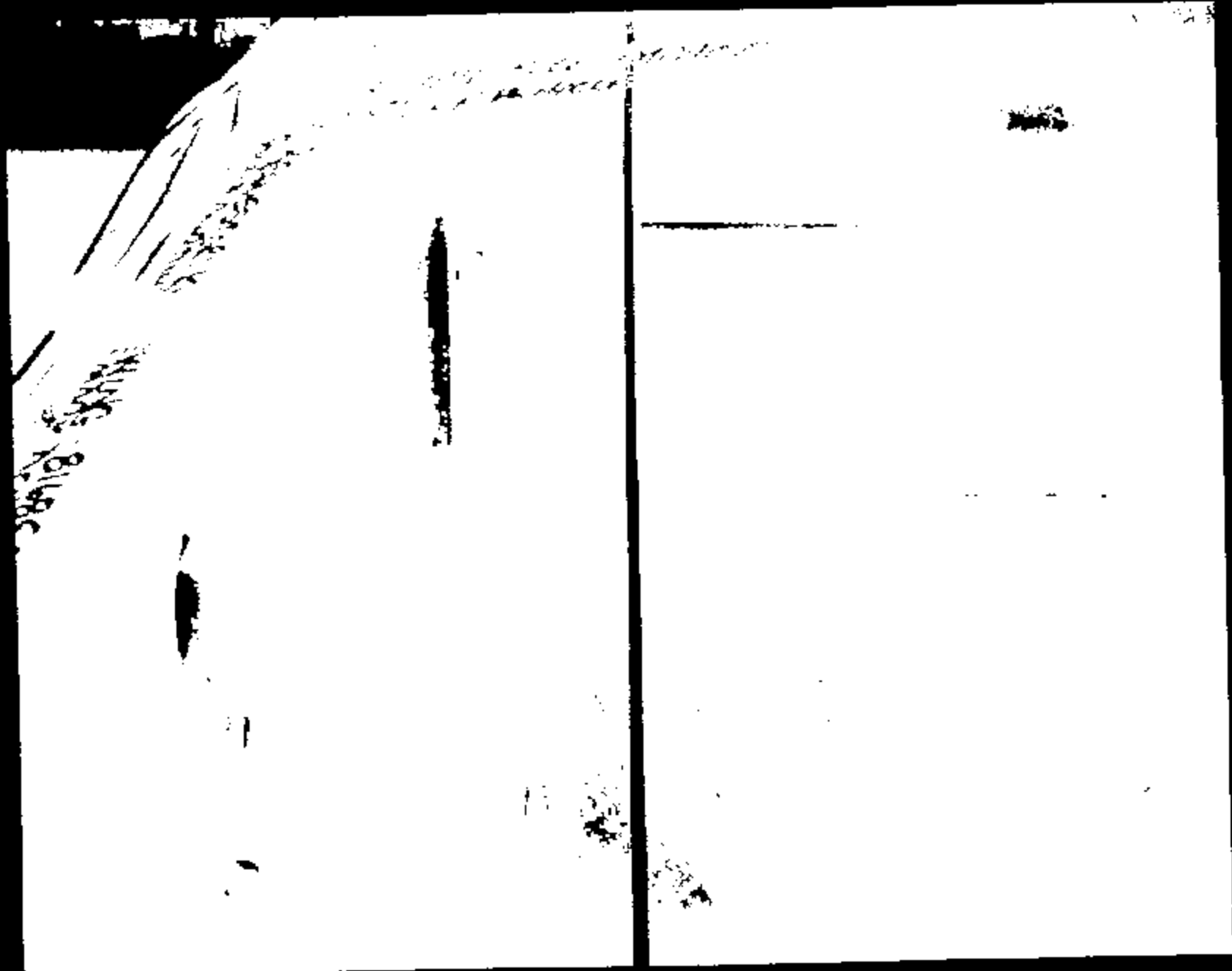
CRTS 0010801



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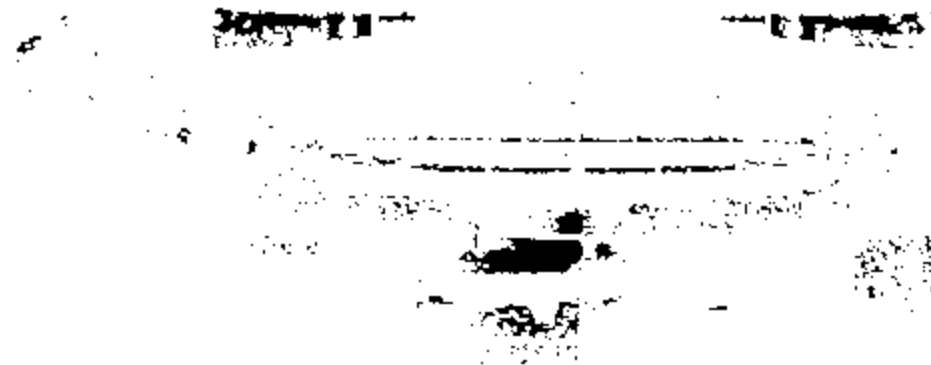
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10801027.JPG

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CRTS 0010801

Name : 10801028.JPG



Manne 7

10801029.JPG

CRTS 0010801



Frame:

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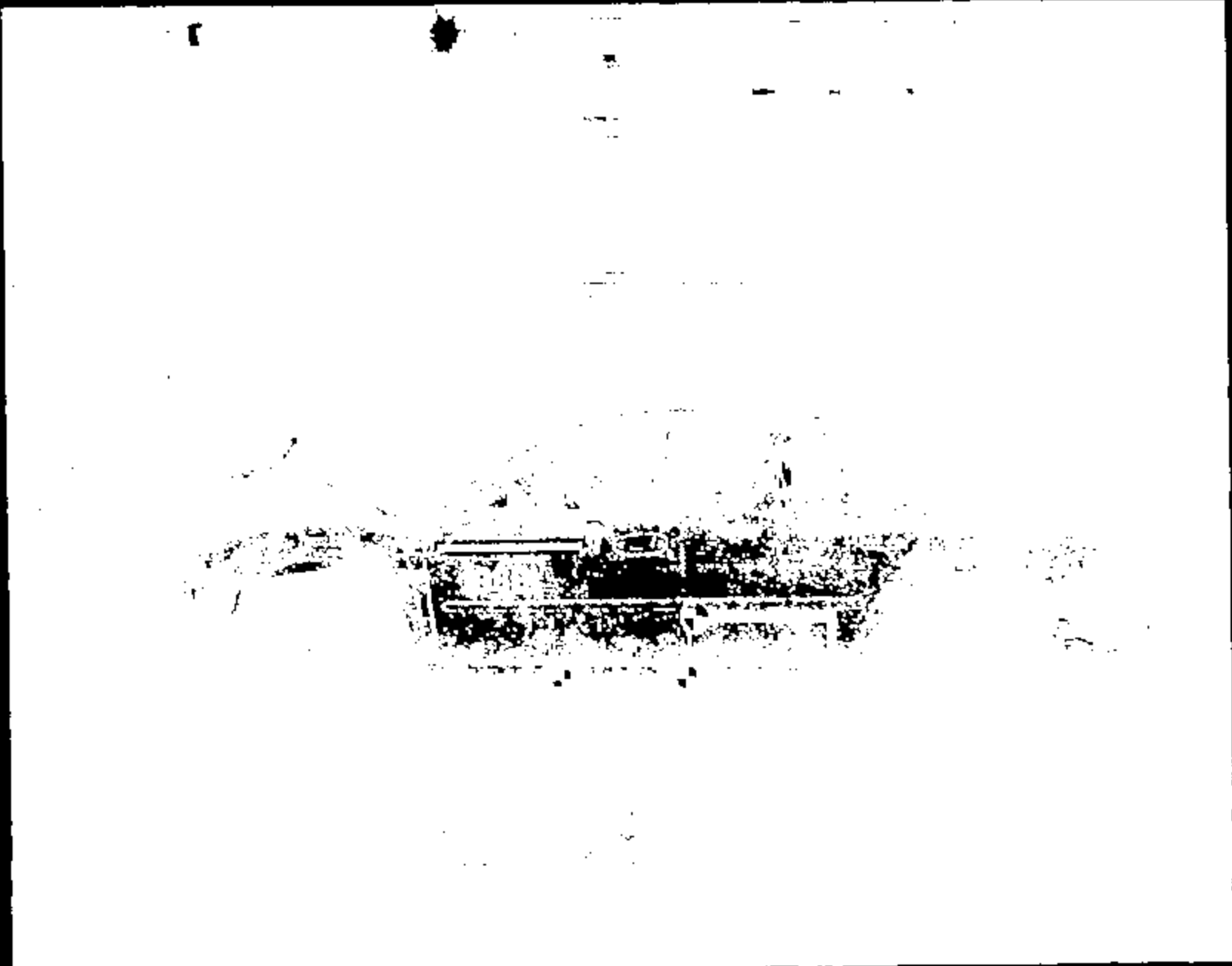
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CRITS 0010901

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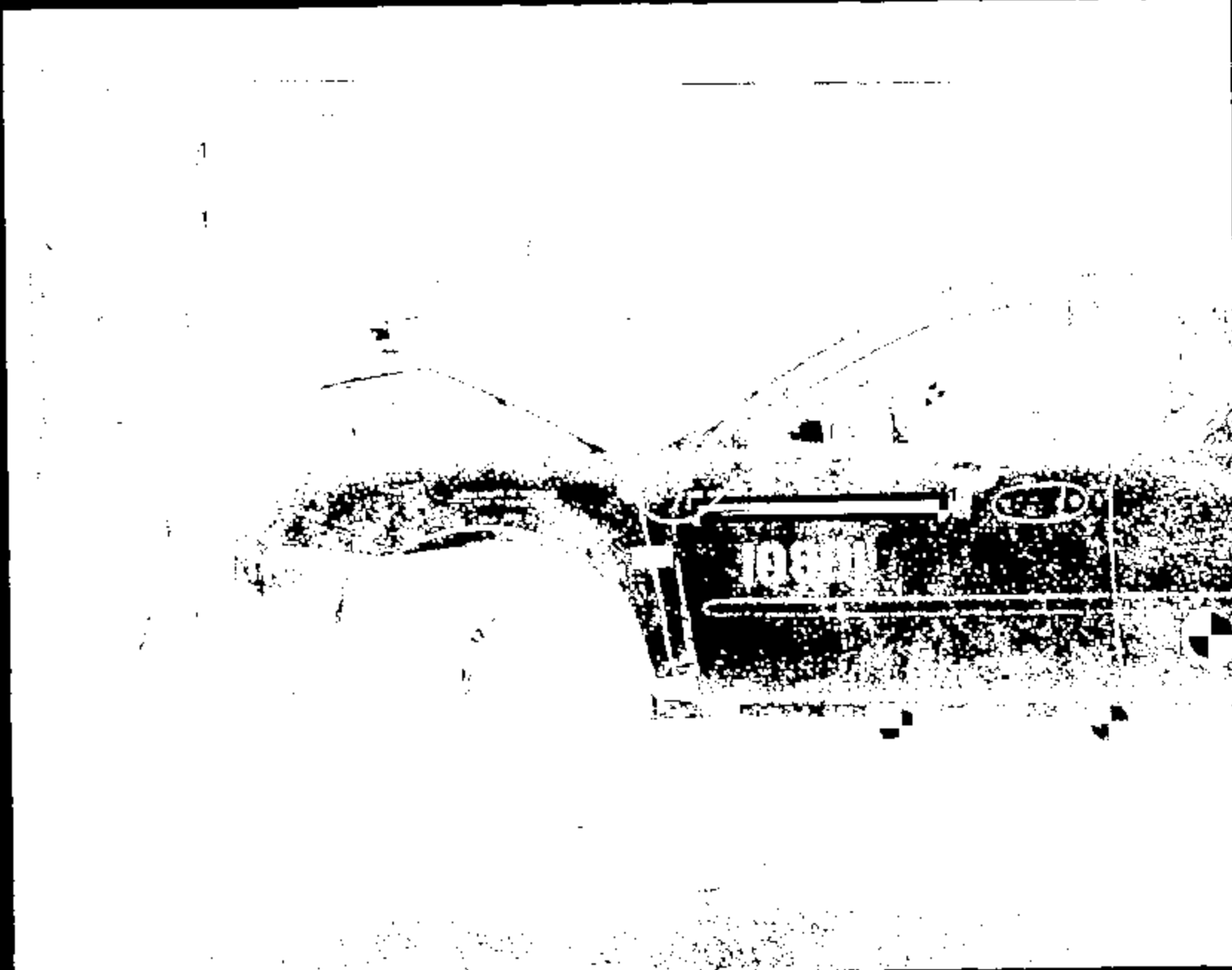


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10801032.JPG

CRTS 0010801





Name :

10801033.JPG

CRTS 0010801



Name :

10801034.JPG

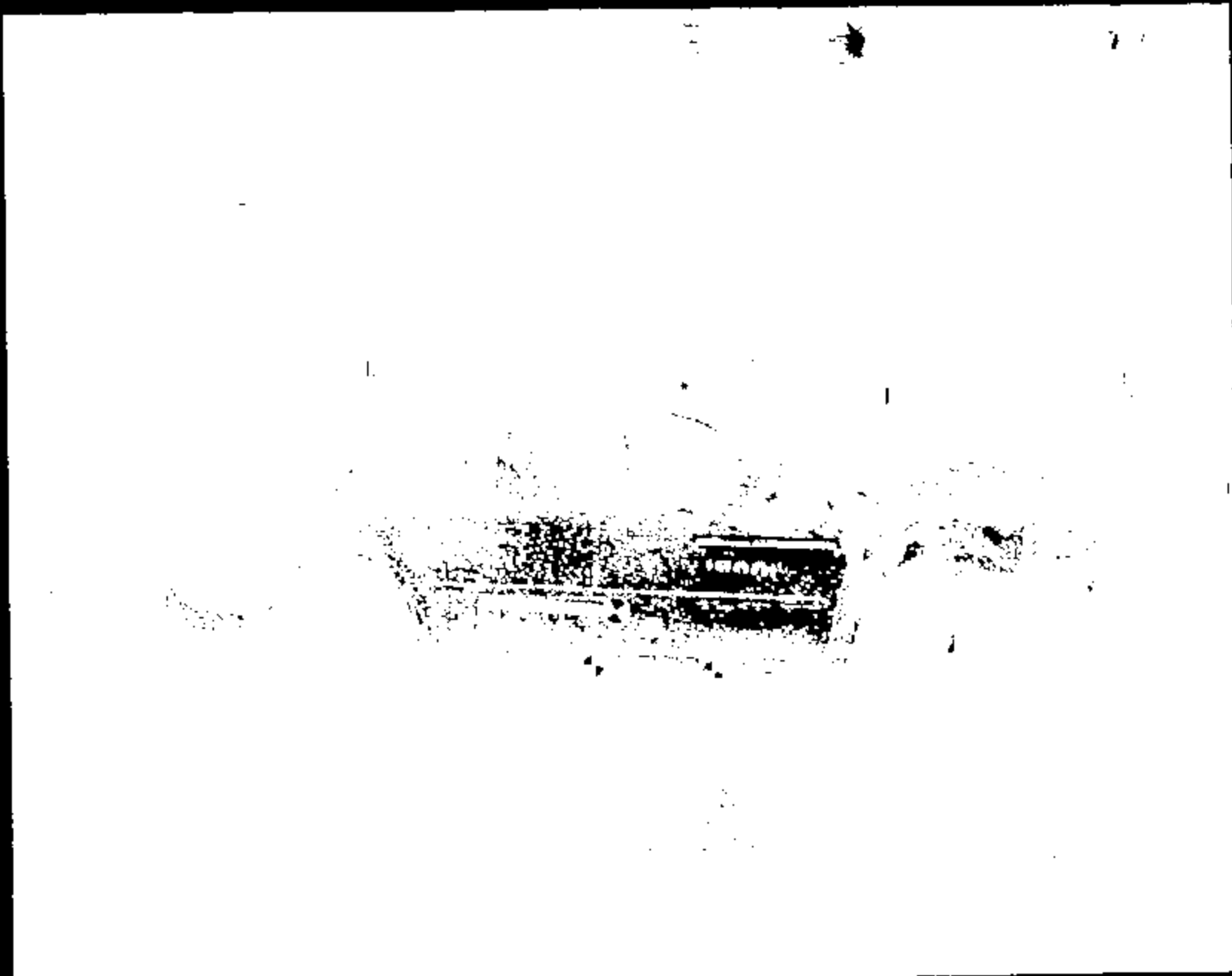
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Frame:

10801035.JPG

CRIS 0010801



CRTS 0010901

Name: 10801036.JPG



Name :

10801037.JPG

CRIS 0010801



Name :

10801638.JPG

CRTS 0010801



CRTS 0010801

Frame : 10801039.JPG



10801040

CRTS 0010801

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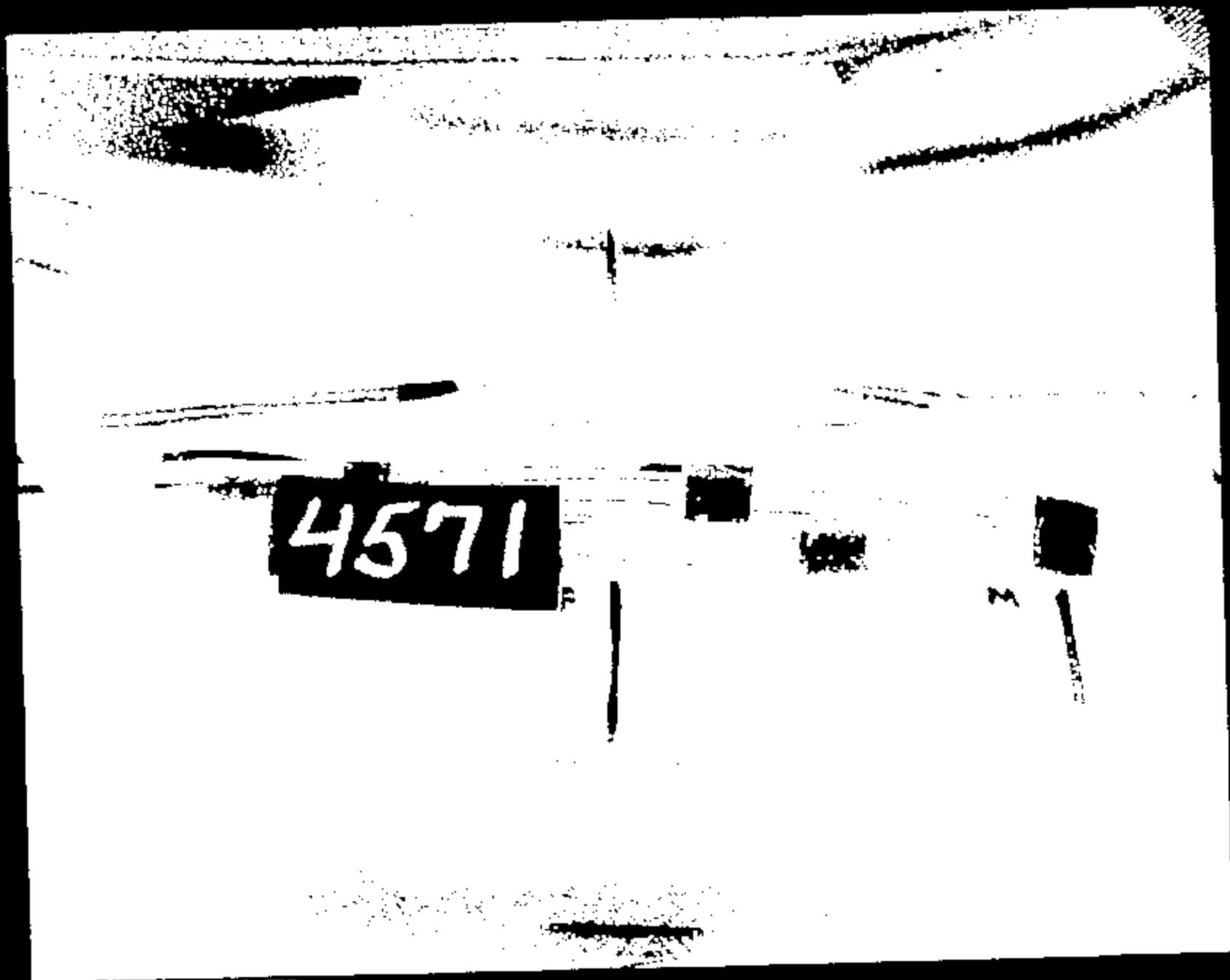




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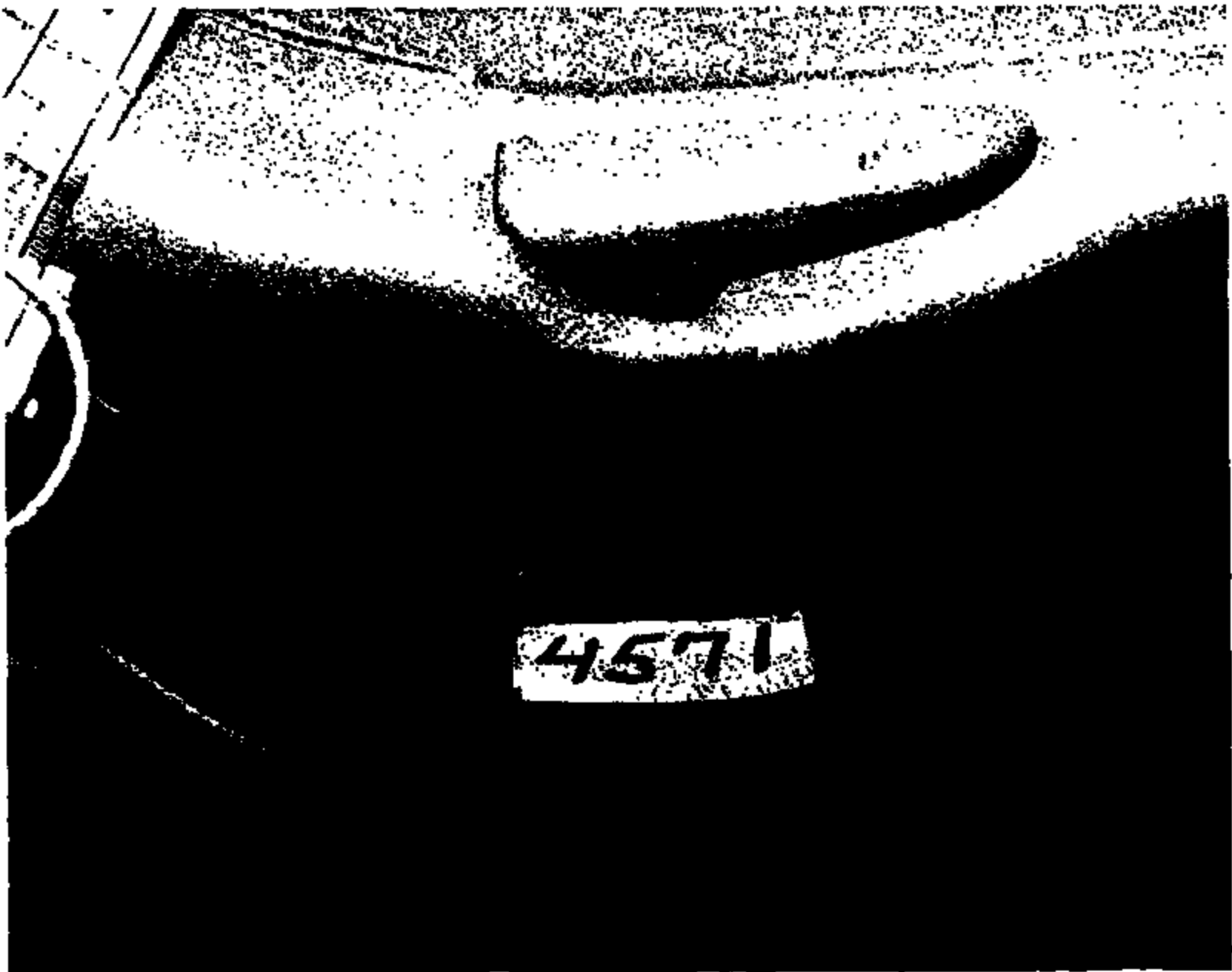
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CRJTS 0010801



CRTS 0010801

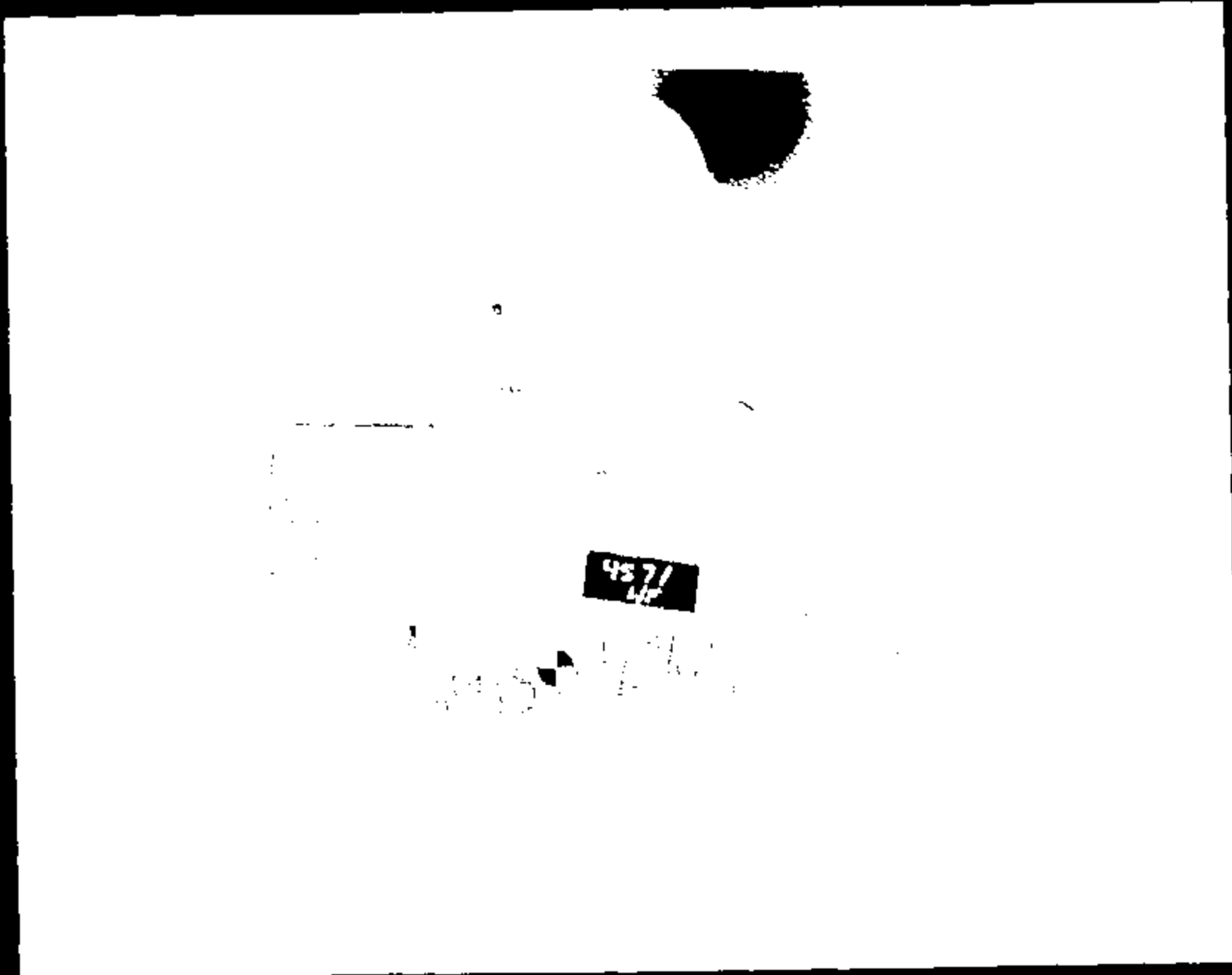
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4571

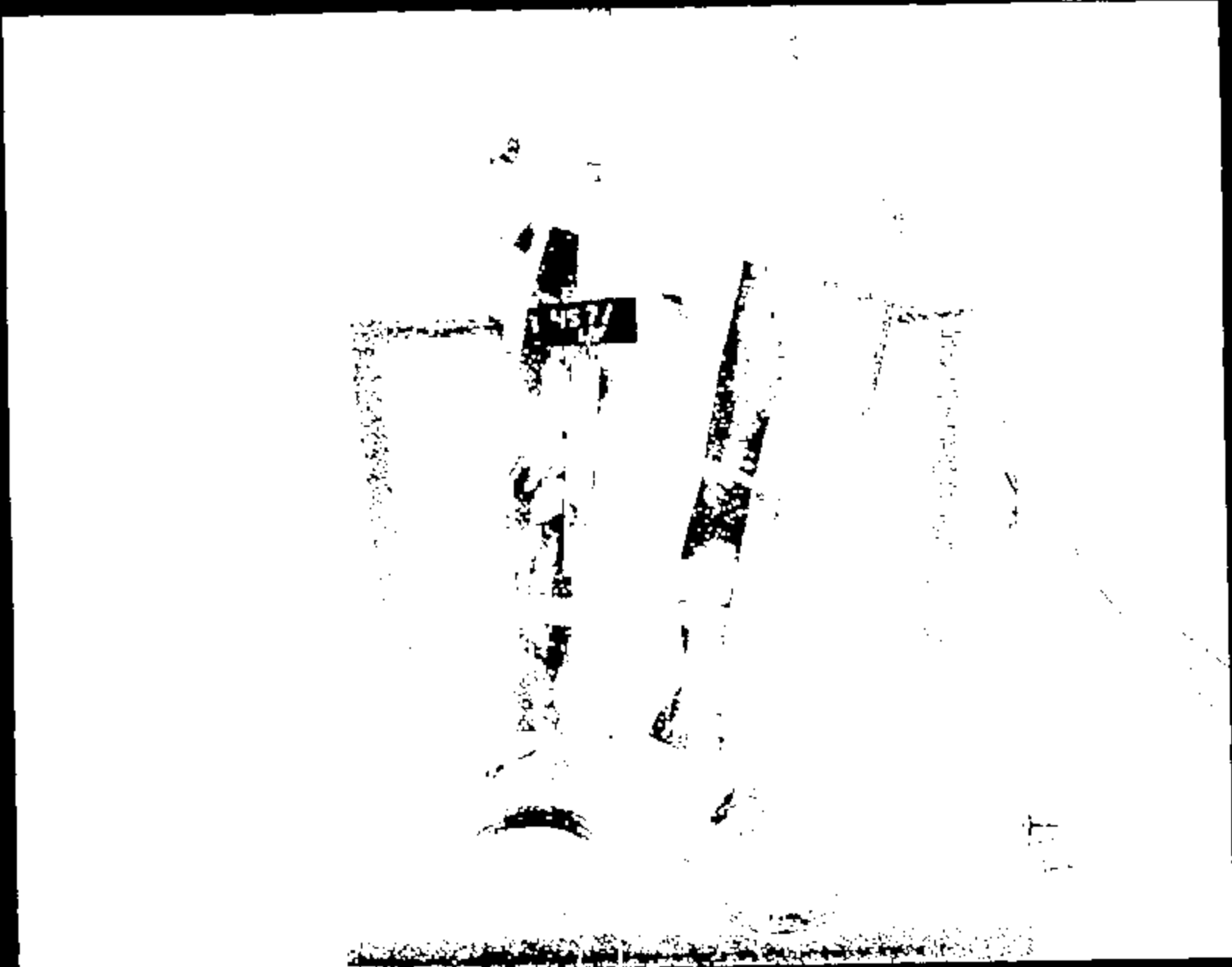
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4571

CRTS 0010801



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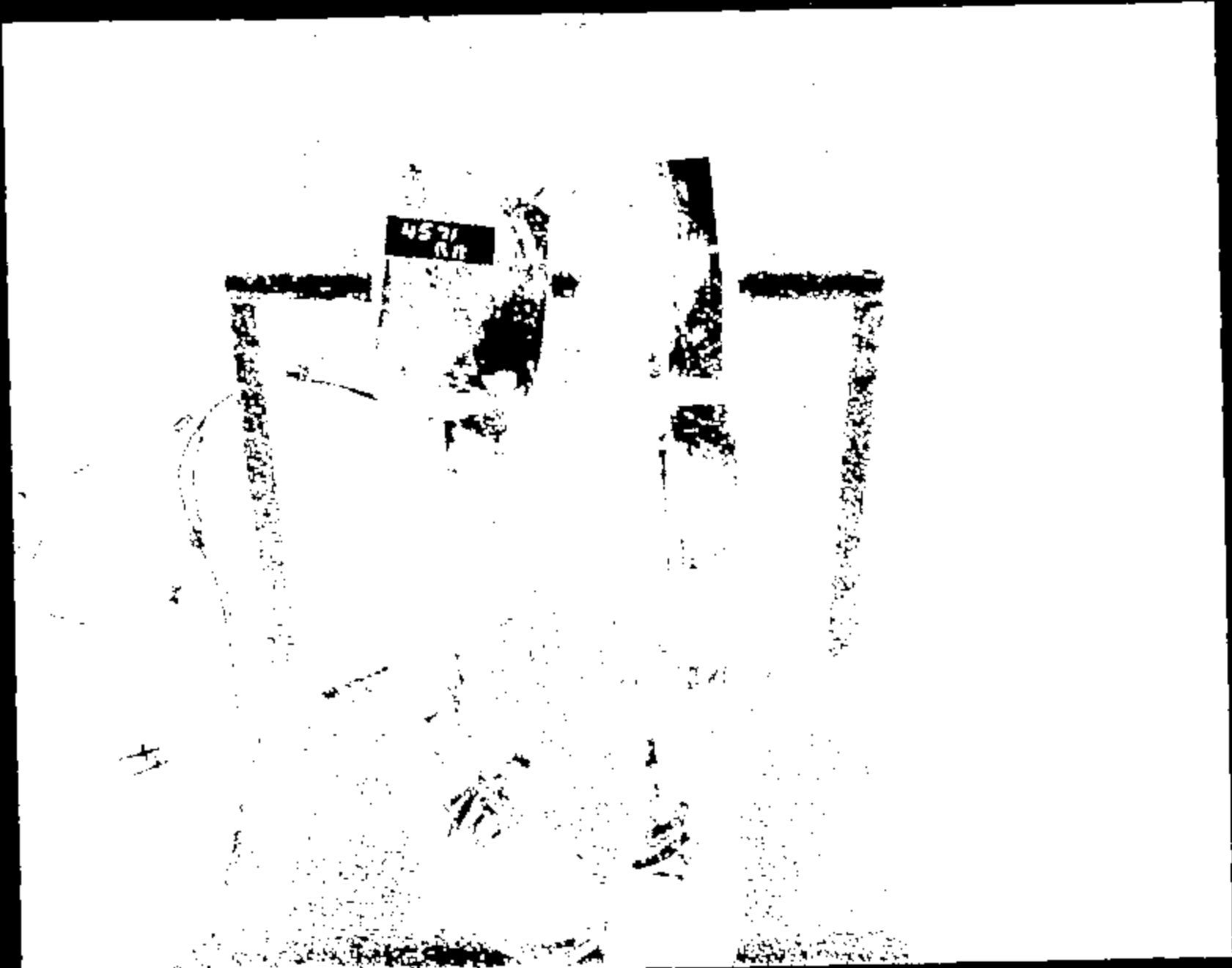
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Name:

10901049.JPG



Name :

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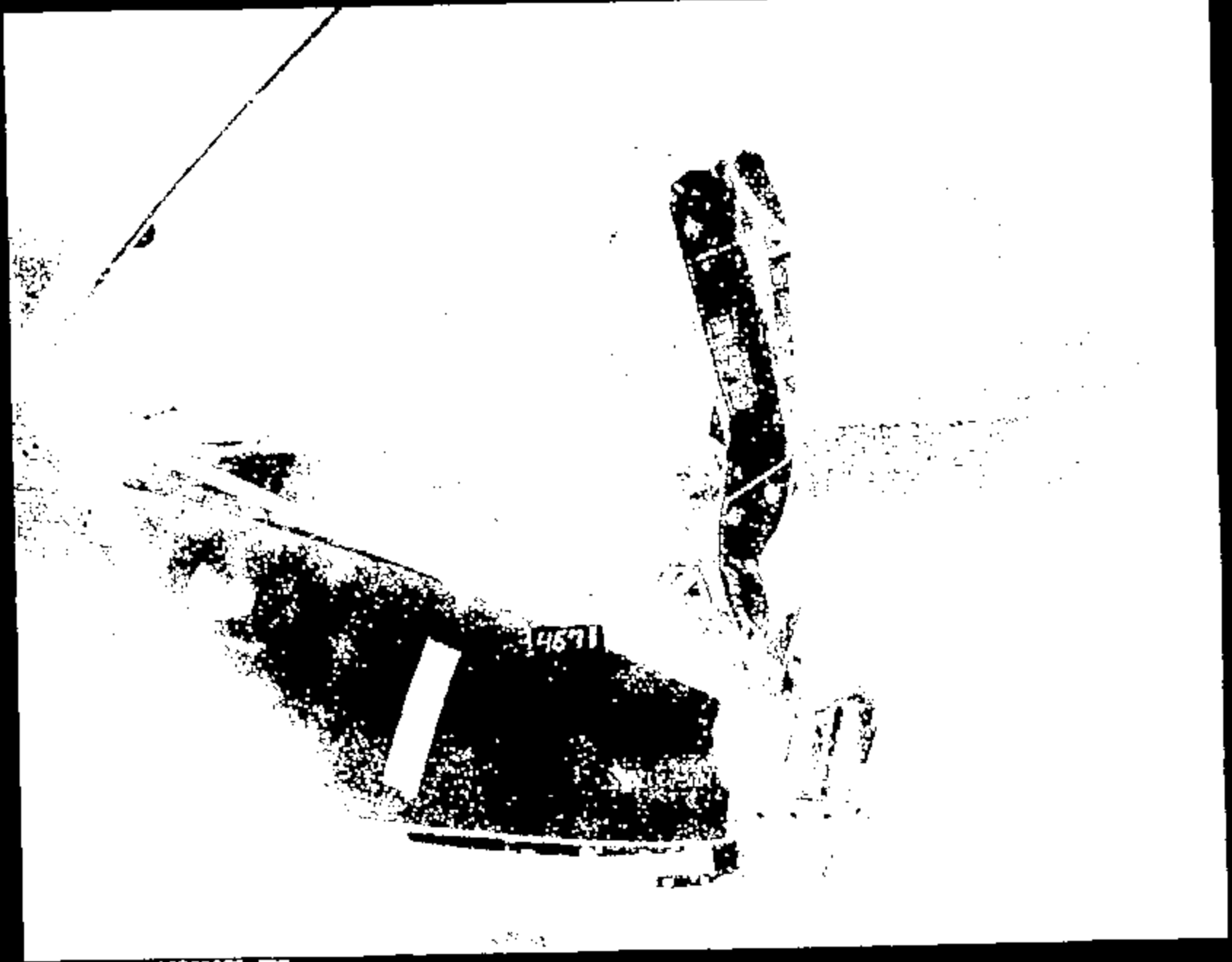
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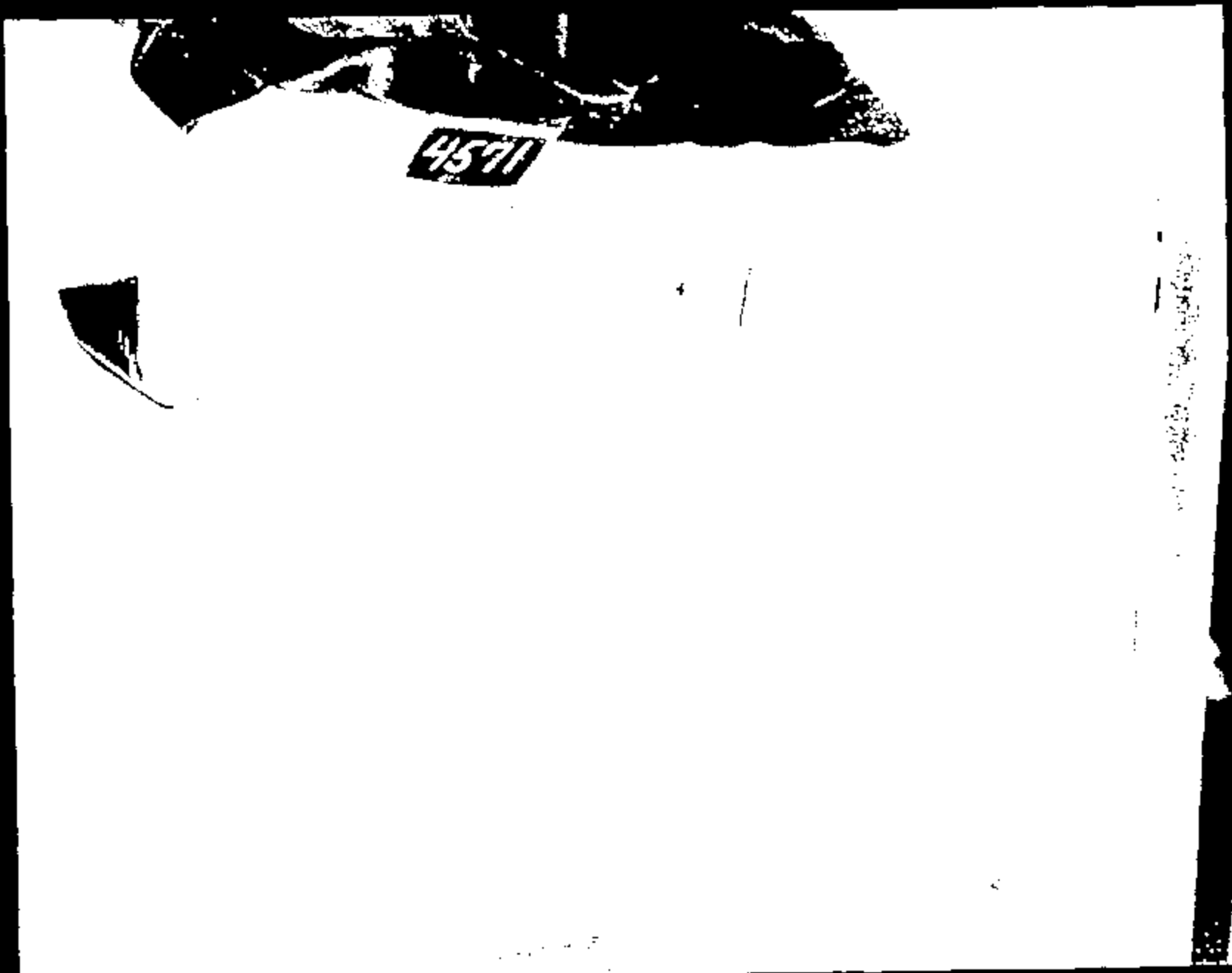
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Name :

10001053.JPG

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North :

10801054.JPG

CRTS 0010801



457L

CRTS 0010801

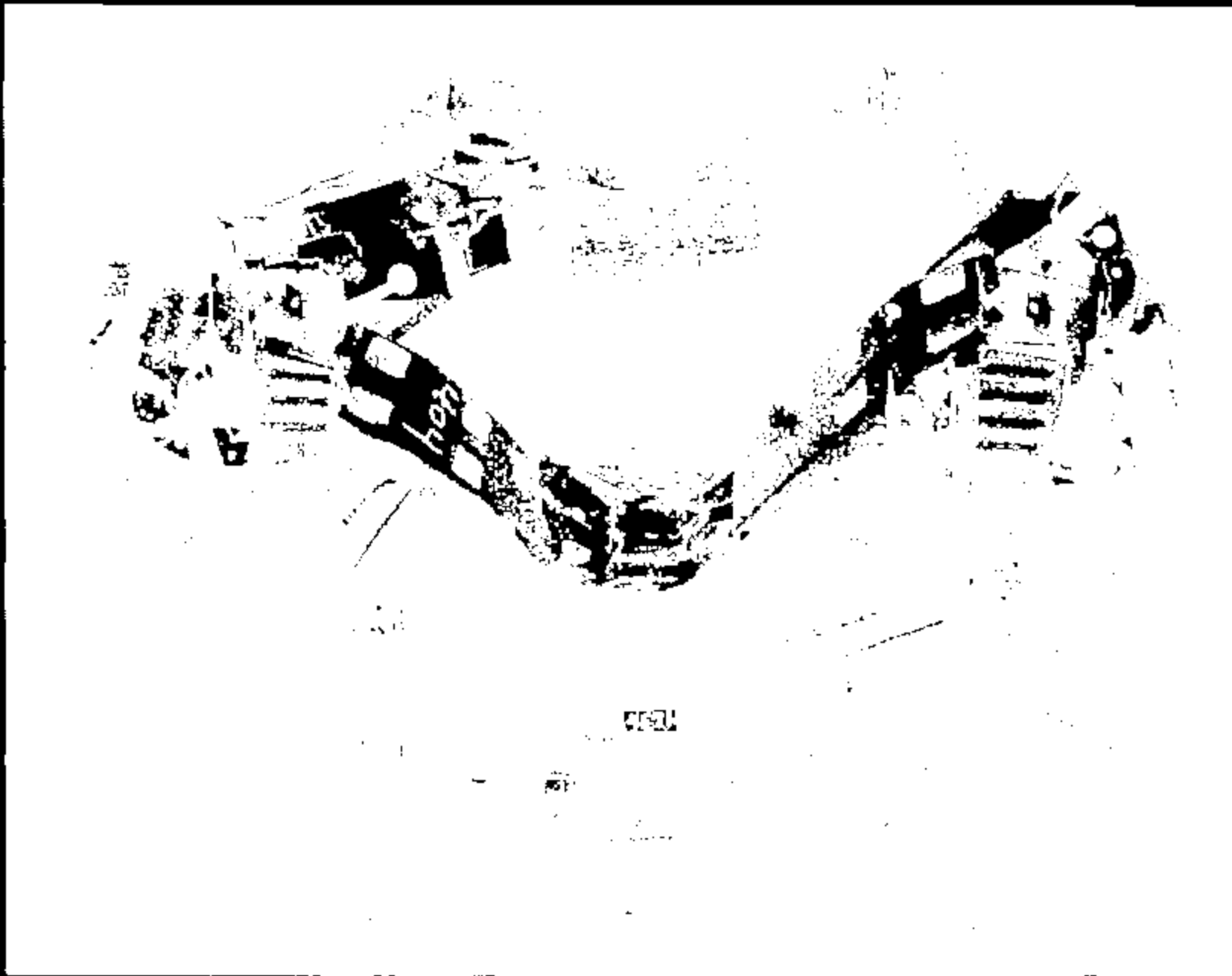
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4571

10801056

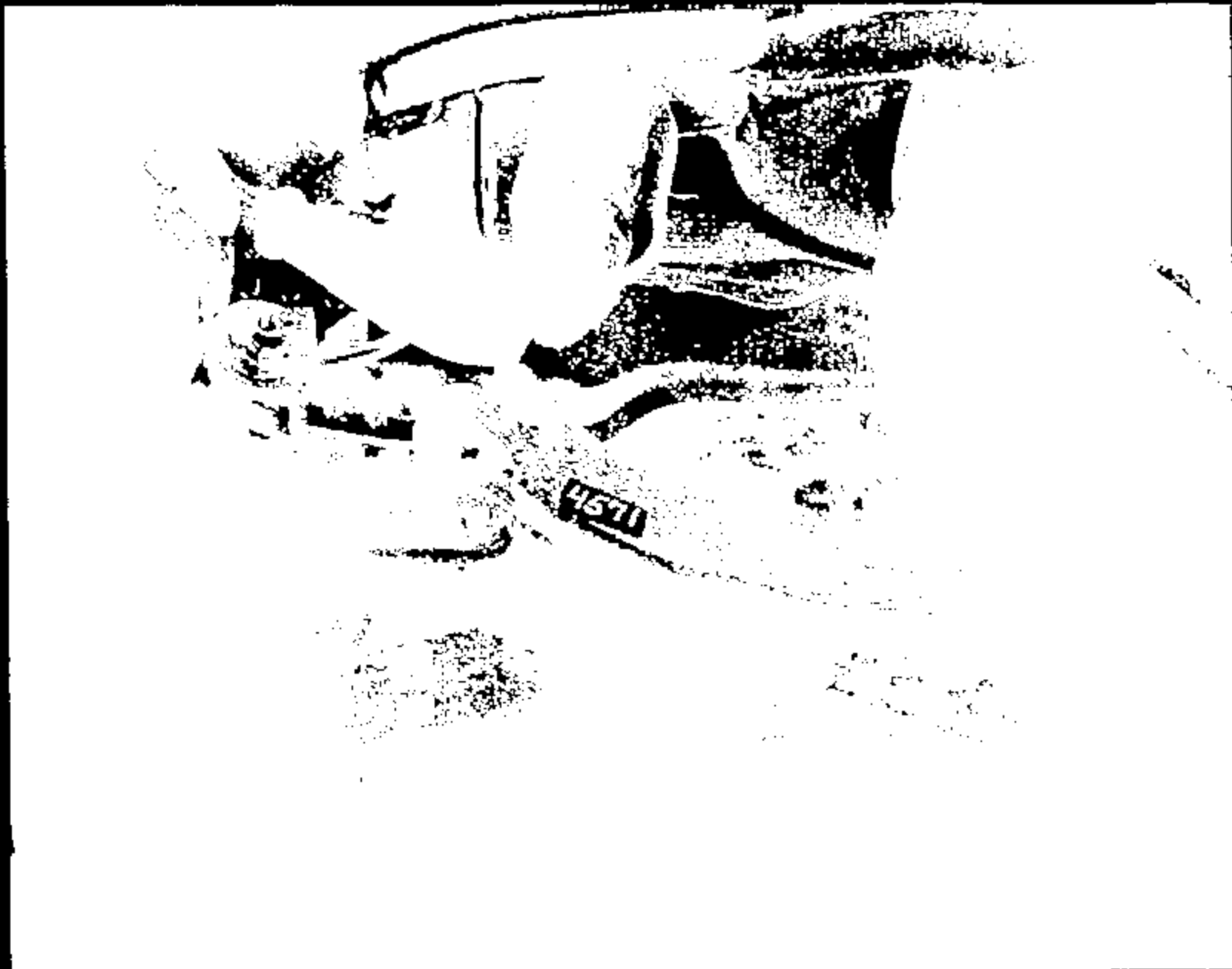




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CRTS 0010801



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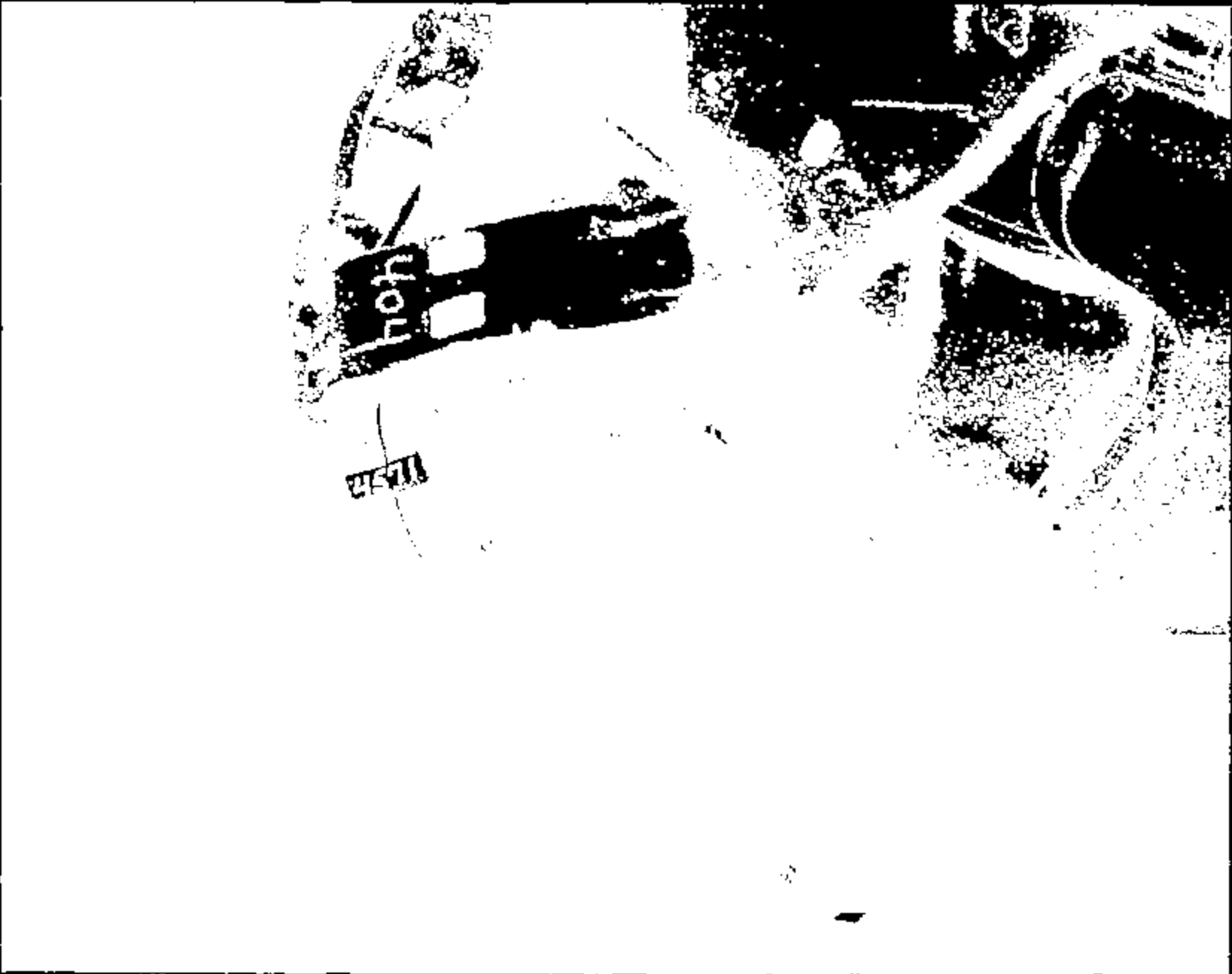
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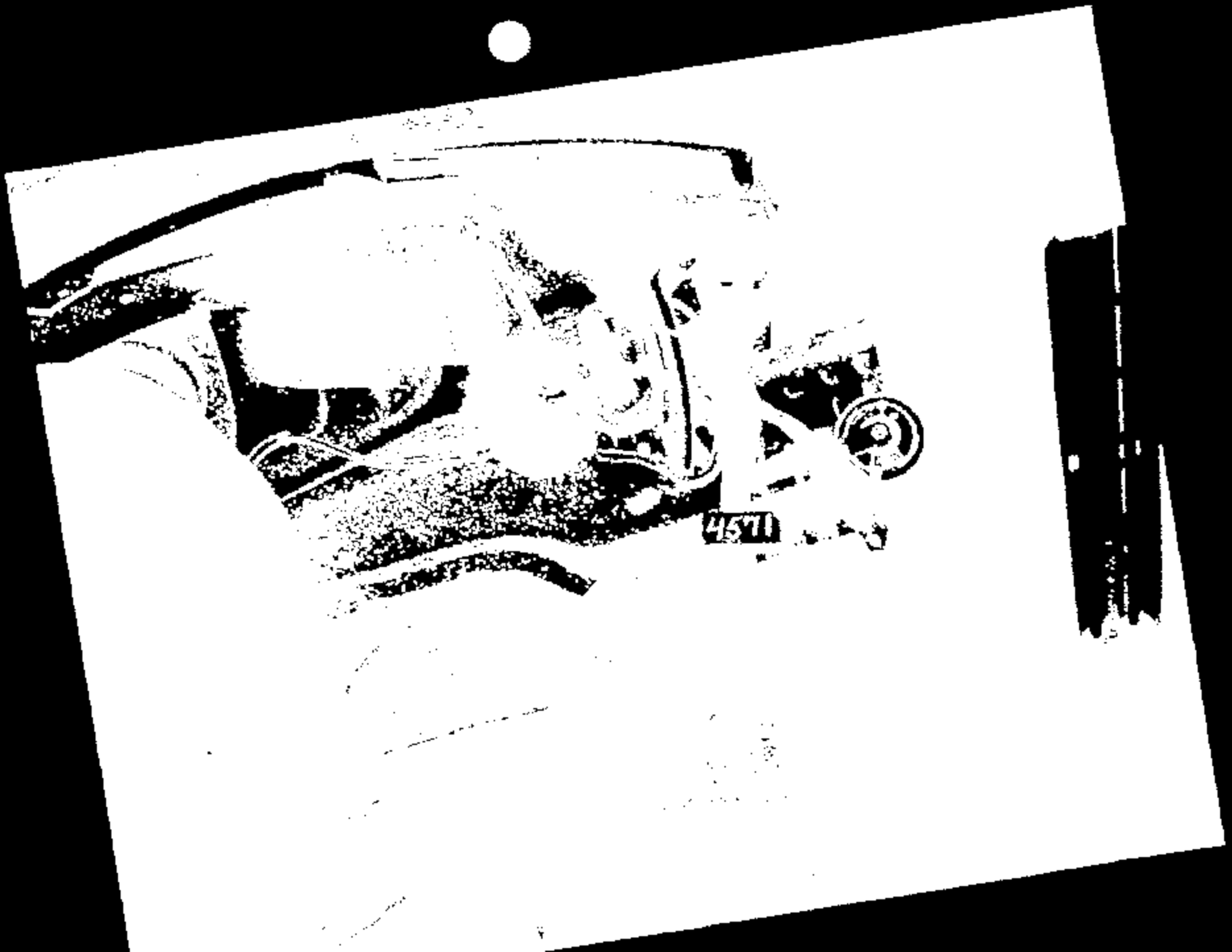
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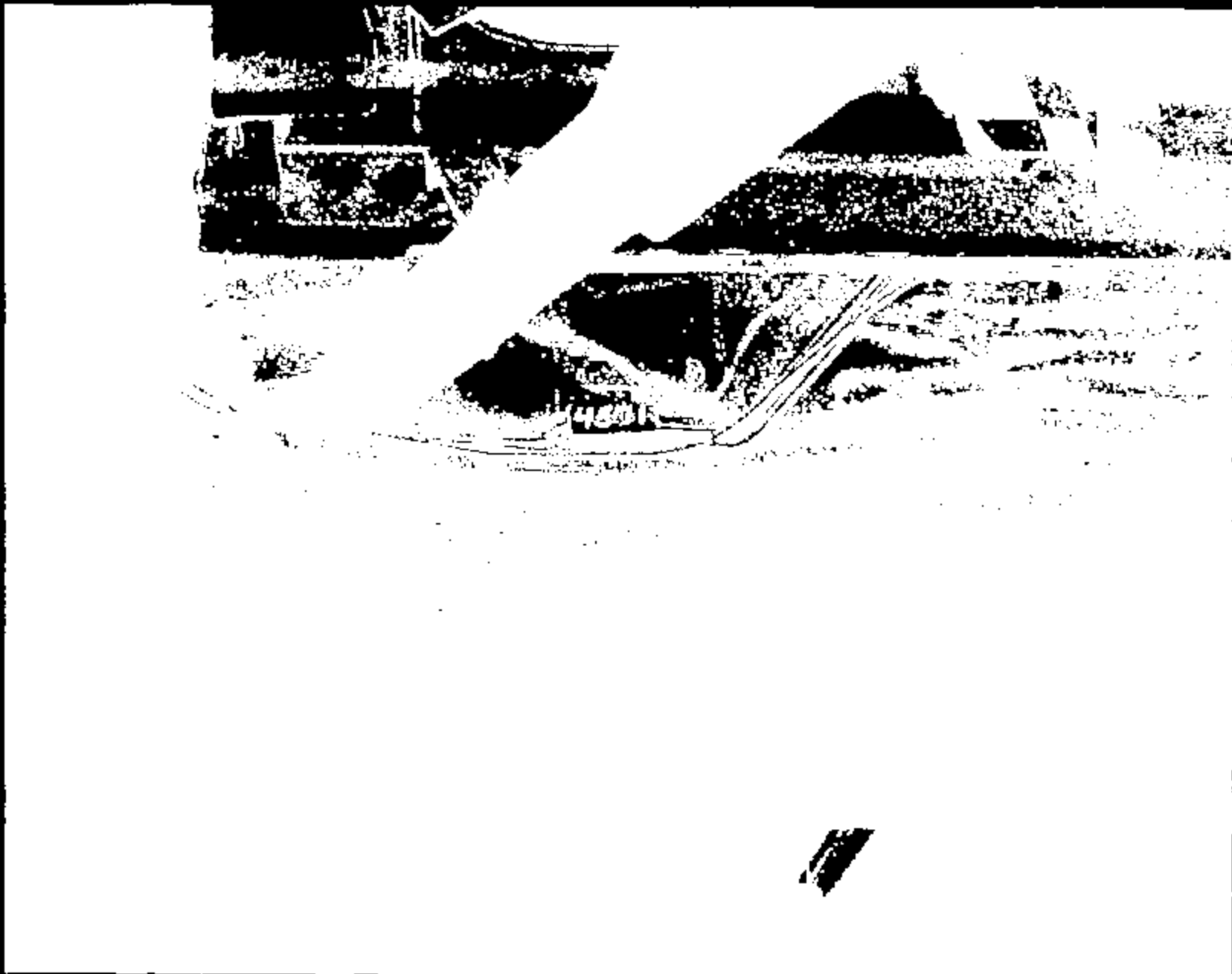
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CRIS 0010801



4571



CRTS 0010801

Image 1

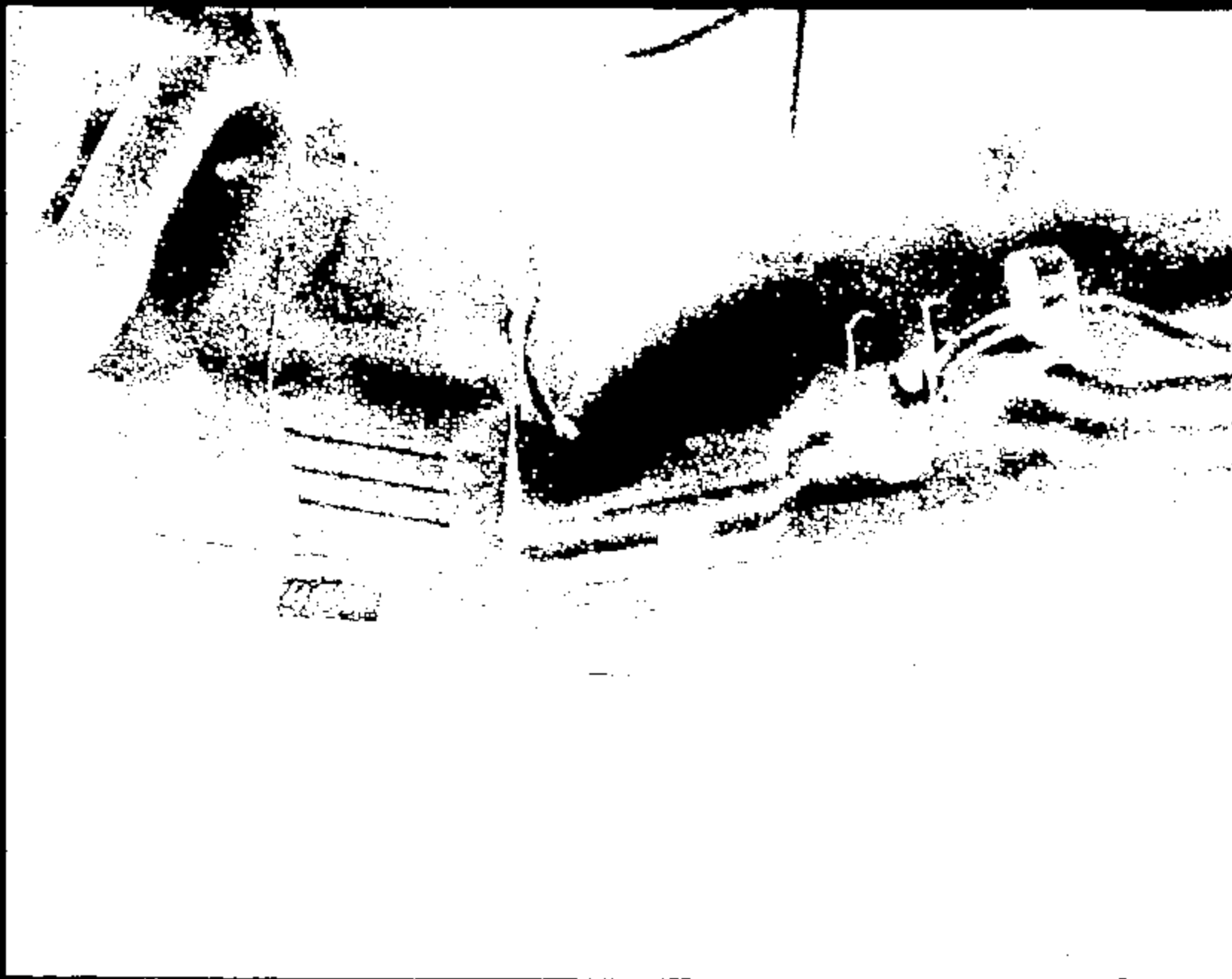
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CRTS 0010801

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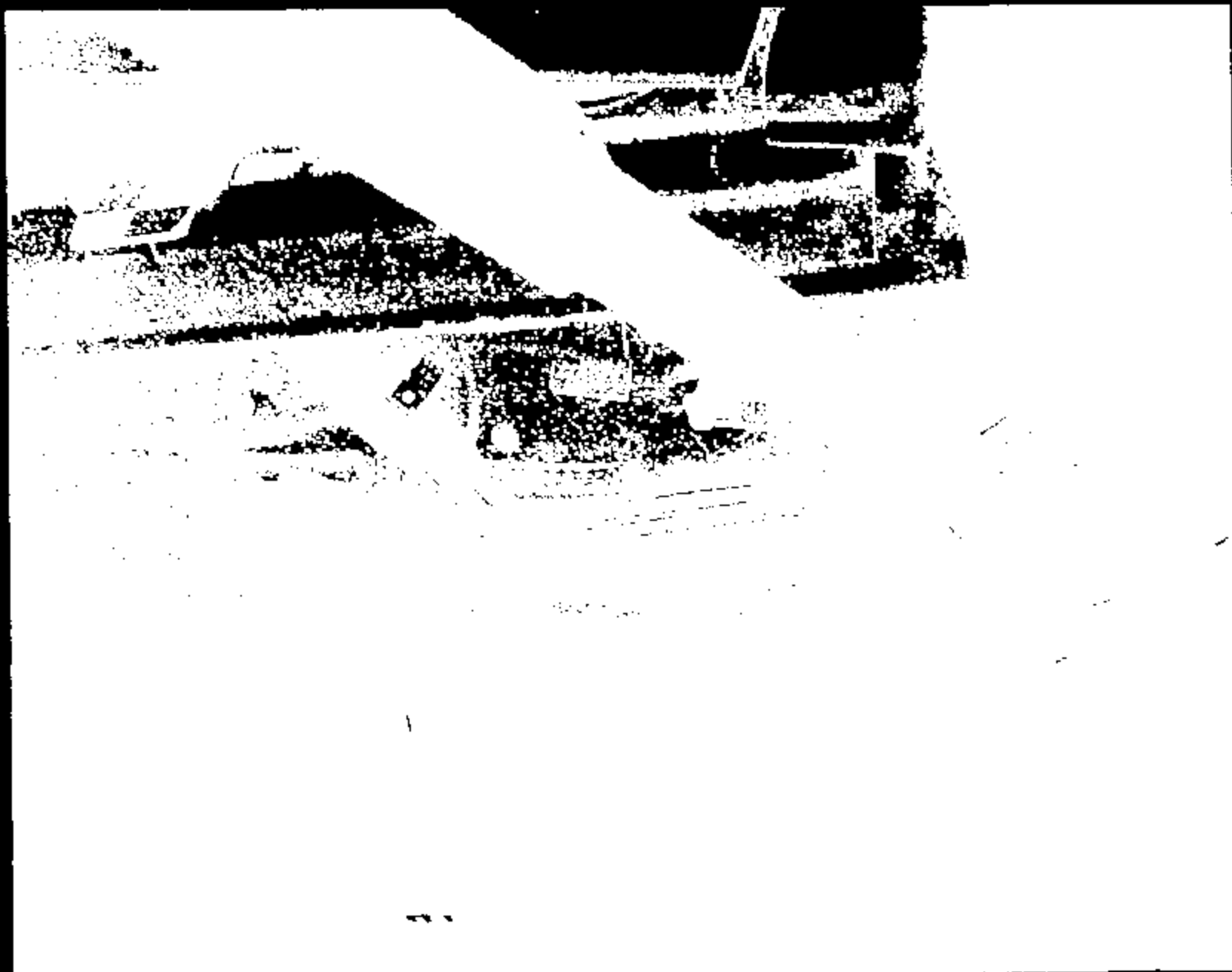


CRTS 0010801

Name:

10801064.JPG





Name:

10801065.JPG

CRTS 0010801



Name :

10801066.JPG

CRTS 0010801

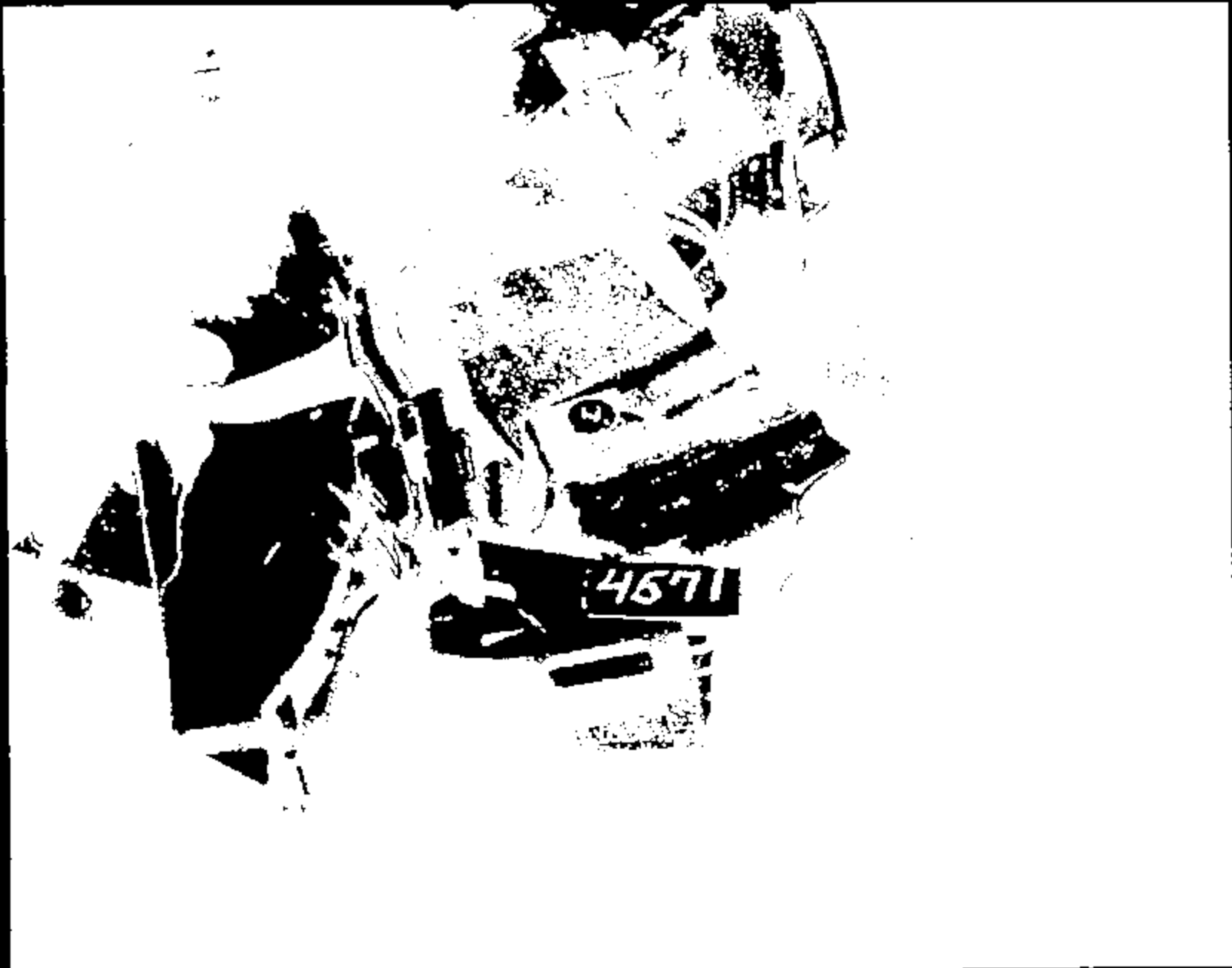


Image : 10001067.JPG

CRIS 0010801



Name: 10801055.JPG

CRTS 0010801

# TEST AUTHORIZATION

TEST ORDER NUMBER TA6571

TO: J. Kiladonik	CC: P. K. VITARBIK MILLION THOMAS MILLER MILLER MAYHEW MAYHEW MAYHEW MAYHEW MAYHEW MAYHEW	REQUEST DATE	REGISTERED COMPLETION DATE 02-08-97
		REQUEST NUMBER TA6571	PROBLEM NUMBER N/A
		REQUESTING SECTION AV2215A	

TITLE OF TEST Taurus 30 mph Frontal Pole Impact w/ <u>3" DIAMETER POLE 712 2/1/97</u>			PARTS DLM DATE 07-31-97
TYPE OF TEST <input checked="" type="checkbox"/> VEHICLE <input type="checkbox"/> RENCH <input type="checkbox"/> LABORATORY <input type="checkbox"/> OTHER	VEHICLE NUMBER OR OTHER IDENTIFICATION <u>311T897</u>		PRODUCT OR ENG. LETTER N/A
ENGINE NO. DISPL. COMP. 3.0L 2V	TRANSMISSION A4AK	AXLE RATIO N/A	TEST CONDUCTED TO CERTIFY CONTROL ITEM COMPLIANCE WITH GOVERNMENT REGULA- TIONST  <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
TYPE OF FUEL N/A	CONVERTER N/A	IGNITION TIMING N/A	
CHASSIS/DIESEL AND CAPACITY N/A	TIRE SIZE AND PLY RATING N/A	REPORT CATEGORIES <input checked="" type="checkbox"/> ENGINEERING <input checked="" type="checkbox"/> DATA <input type="checkbox"/> RAW DATA	DISPOSITION OF PARTS Boneyard  PROCUREMENT REQUIRED?  <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO CODE
VEHICLE TEST WEIGHT FRONT <u>2266</u> REAR <u>1925</u> TOTAL <u>4191</u>	TIRE PRESSURE FRONT <u>30</u> REAR <u>30</u>		MAIL REPORT TO: RUCR <u>RD1232</u> SLDG <u>2</u>

1. OBJECT OF TEST: Advanced Seatbelt Sensor Development
2. TEST PROCEDURE: CRP-00
3. NUMBER OF SAMPLES: 1
4. RINS PER SAMPLE: 0
5. ITEMS TO BE TESTED:  
DESCRIPTION

PART BOX	QUANTITY
<u>TRUCK SEATBELT DEVELOPMENT</u>	<u>1</u>
<u>1FALP52U8TG134259</u>	

RECORD COPY

Institute No. 2-2-12

DATE 2017

*K. Kiladonik*  
02/01/97

REQUESTING DEPT NO Y331	WORK ORDER/WORK TASK XRTSP	ISSUED/REGISTERED BY BVTM	PHONE 86185	APPROVAL BOLAND	TEST TYPE	RISK	SIGN-OFF DATE
----------------------------	-------------------------------	------------------------------	----------------	--------------------	-----------	------	---------------

REQUESTER DO NOT WRITE BELOW THIS LINE

WORK STANDARD NUMBER	TITLE Taurus 30 mph Frontal Pole Impact																		
<table style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="4" style="text-align: left;">MANDATORY</th> <th colspan="4" style="text-align: right;">OPTIONAL</th> </tr> <tr> <td style="width: 10%;">TEST ORDER # TA6571</td> <td style="width: 10%;">CATEGORY 4</td> <td style="width: 10%;">MHP SECT T487</td> <td style="width: 10%;">EST COMP DATE</td> <td style="width: 10%;">PSO X</td> <td style="width: 10%;">TEST ENG/RS TRTY</td> <td style="width: 10%;">UNIT CODE CRASH</td> <td style="width: 10%;">TEST ORDER DATE</td> <td style="width: 10%;">USER CODE</td> <td style="width: 10%;">PICK CODE</td> </tr> </table>		MANDATORY				OPTIONAL				TEST ORDER # TA6571	CATEGORY 4	MHP SECT T487	EST COMP DATE	PSO X	TEST ENG/RS TRTY	UNIT CODE CRASH	TEST ORDER DATE	USER CODE	PICK CODE
MANDATORY				OPTIONAL															
TEST ORDER # TA6571	CATEGORY 4	MHP SECT T487	EST COMP DATE	PSO X	TEST ENG/RS TRTY	UNIT CODE CRASH	TEST ORDER DATE	USER CODE	PICK CODE										
PERFORMING SECT. DESIGN	HOURS 0	MATERIAL COST 0	COMP. COST 0	PARTS DLM DATE	EST START DATE	EST COMP DATE	STATUS	COMPLETE											
ENGINEERING	0	0	0																
TECHNICAL	0	0	0																
TOTAL	0	0	0																

TEST DEFINITION WORKSHEET

KURT L. EWING

29-JUL-97 13:30

TEST ORDER: TA4571

TEST PROCEDURE: CRS-00

REQUESTERS COMMENTS:

TEST OBJECTIVE: Advanced Restraint Sensor Development

CUSTOM TEST SETUP: Align test vehicle such that impact marker is in line with centerline of pole fixture. Impact vehicle @ 30 mph.

*USE 8" DIAMETER POLE Installed 8/6/97*

RATED FUEL CAPACITY: N/A  
RATED LOBBAGE LOAD: 200 lb.

OCCUPANT TYPE: Left Front: 5th Hybrid III  
Rgt. Front: 5th Hybrid III

RESTRAINT SYSTEM:	SEAT	PIRO BELT	FRONTAL BAG	SIDE BAG
Left Front:	X		X	
Rgt. Front:	X		X	

DUMMY POSITIONING: ST-25 DRIVER FOOT REST: N

SENSOR SYSTEM: STAGE 1: PASSENGER - Remote Deploy @ 38 ms  
STAGE 2: DRIVER - Remote Deploy @ 26 ms  
STAGE 1: PASSENGER - Do NOT Deploy  
STAGE 2: DRIVER - Remote Deploy @ 400 ms.

SEAT POSITION: Long. Vert. Seat Back Angle  
Left Front: Full Fwd. Roll-Up Vertical (Full Up)  
Rgt. Front: Full Fwd. Roll-Up Full Down Vertical (Full Up)

*K. Ewing 8/7/97*

SEAT PACKAGE CHECK REQUIRED?  NO *K. Ewing 8/6/97*

DIMENSIONAL ANALYSIS: ~~Seat Locations (Pre-test only)~~  
~~Sensor Attachment Points (Pre-test only)~~  
~~H-Point reference for dummy positioning & barrier.~~

*NONE*

*K. Ewing 8/6/97*

FILM ANALYSIS: None

TEST DEFINITION WORKSHEET

KURT L. EWING

29-JUL-97 13:30

TEST ORDER: TA4571

TEST PROCEDURE: CRS-00

STILL PHOTO: Std. Pre & Post Test Photographs  
Close ups of sensor instrumentation on vehicle front and

HIGH SPEED PHOTO:

*WEEDRACK*

Onboard: Over Shoulder: Left, Right  
D-Ring: Left, Right  
Retractor: Left, Right

*6 CAM*

Offboard: Overall Views: Left, Right, Overhead  
Dummy Kinematics: Left, Right  
B-Pillar Forward: Left, Right  
A-Pillar Forward: Overhead

Number of Copies: 1

Digitized Film: Standard Views

*\* NOTE: NEED DRIVER - OVER SHOULDER COVERAGE OF 2ND STAGE TENSILE BAG DEPLOYMENT (4.4 SECS!) DO NOT TRIM OFF FILM BEFORE SHOTS.*

WEIGH UP INSTRUCTIONS:

Curb Weight: Front=~~2131~~ Rear=~~1163~~  
Test Weight: See Test Authorization Page 1.

Total Curb=~~3294~~ *3294*

*K. Ewing 8/1/97*

Do NOT Place Weight: Front Floor  
MAY Remove To Lighten Vehicle: Deck Lid, Rear Lamps, Carpet

Interior Trim

Max. Added Weight to Engine: 75 lb. Allowed.

Front Test Weight Tolerance: +10 -0  
Rear Test Weight Tolerance: +15 -0

SPECIAL BUILD INSTRUCTIONS:

Fabricate Sensor Bracket Hardware as per requestor's instructions.  
Remove All Door Trim Panels, Side Glass and B-pillar trim.  
Mark impact location on vehicle front.

TEST DEFINITION WORKSHEET

KURT L. SWINE

29-JUL-97 13:30

TEST ORDER: TA4571

TEST PROCEDURE: CR5-00

CONTACTS:	NAME	PHONE	PAGER
Requestor:	K. Swine	24-86185	KSWI (313-660-6991)
	B. Kemnitz	24-81602	BKEN
	D. Bauch	32-23884	DBAU
Sld. Coord:	N. Dandel	24-85498	NDSW (313-705-8101)
Supervisor:	M. Jurosek	32-39958	MJUR (313-705-9990)
GTO:	S. Pingston	29-03809	SPIN (313-780-3922)

TEST ENGINEERS COMMENTS:

LAB COMMENTS:

FINAL COMMENTS:

REQUESTERS FINAL COMMENTS:

Billable Department: T552  
 Billable Requestor: T. Brynik  
 VSCAS is requesting this test on behalf of Department T552.



**VEHICLE SAFETY AND CAE TECHNOLOGY PACKAGE LABORATORY  
QUALITY REPORT  
IN VEHICLE**

TEST NAME	TEST POINT	TEST VALUE	TEST VALUE	TEST VALUE	TEST VALUE	TEST VALUE	TEST VALUE	TEST VALUE	TEST VALUE
		2736		- 2736		0			
		150		847.5		-2.5			
		2732		843					
311T 897	LH DR BKT - ANG	2975	2986	0					
311T 897	RH RS BKT - ANG	2967	2967	0					

LH ACTUAL H-POINT W.R.T. TARGET "X"  
LH ACTUAL H-POINT W.R.T. TARGET "Z"  
RH ACTUAL H-POINT W.R.T. TARGET "X"  
RH ACTUAL H-POINT W.R.T. TARGET "Z"

259	MM
	MM
235	MM
	MM

SEAT SET TO 'X' DESIGN COORDINATE PER REQUESTOR.  
ATTENTION DEWAYNE

CRTS 0010801

TA4571 (97-154)  
WORK NUMBER  
TA980097-001  
6/19/97

  
 PETER J. SIMONE, BILL T. RZEPKA AND KAREN GOMEZ  
 PHONE-313/584-6808 313/584-0873  
 ENGINEERING TECHNOLOGIST  
 VEHICLE SAFETY CAE

590 ✓

DN101

## DUMMY POSITIONING MEASUREMENTS

Test Order No.

TA4571

Crash No.

10801

Target/Bullet

TARGET

Dummy Type

5H9

Foot Rest

Yes/No

5% DUMMIES!

MEASUREMENT DESCRIPTIONS WRT FRONT ROCKER TARGET		DRIVER		PASSENGER	
		RANGE	Actual	RANGE	Actual
Head (Inches)	Long		8.5		7.8
	Vert		34.1		35.4
	Lat		14.4		14.4
Shoulder (Inches)	Long		/		/
	Vert		/		/
	Lat		/		/
H-Point (Inches)	Long		3.5		5.0
	Vert		12.1		12.9
	Lat		12.0		12.0
Outboard Knee Bolt (Inches)	Long		-9.8		-9.3
	Vert		15.2		15.2
	Lat		12.5		12.6

MEASUREMENT DESCRIPTIONS		DRIVER		PASSENGER	
		RANGE	Actual	RANGE	Actual
Leg to Instrument Panel - Left	(Inches)		1.2		1.3
Leg to Instrument Panel - Right	(Inches)		1.2		1.5
Rocker Target to Ground - Front	(Inches)		7.2		7.4
Rocker Target to Ground - Rear	(Inches)		7.5		7.8
Nose to Steering Wheel	(Inches)		9.0		
Nose to Instrument Panel	(Inches)				15.2
Torso to Instrument Panel	(Inches)				12.5
Torso to Steering Wheel	(Inches)		3.1		
Top of Legs to Steering Wheel	(Inches)		4.5		
Knee Spread (From Top of Instrument Panel)	(Inches)		8.2		7.8
Bumper Target to Ground	(Inches)		/		/
Head Angle	(degrees)		.5		.5
Pelvis Angle	(degrees)		21.3		23.9
Neck Bracket Angle	(degrees)		0		0
Rocker Angle	(degrees)		.2°		.4
Seat Back Angle	(degrees)		20.3		20.6

STEERING WHEEL = 22.3° (measured off the wheel rim plane)

DUMMY MEASUREMENT REPORT  
CRASH BARRIER

TEST NUMBER 10801  
TEST ORDER NUMBER TA4571

DUMMY POSITION LEFT  
DUMMY ABBREV 50H3

FRONT

ABSOLUTE MEASUREMENTS (INCH)	MEASUREMENT
-----	
LEG (HYB II) / KNEE (HYB III) TO INST PANEL LEFT	1.70
LEG (HYB II) / KNEE (HYB III) TO INST PANEL RIGHT	1.20
ROCKER TARGETS TO GROUND FRONT	7.20
ROCKER TARGETS TO GROUND REAR	7.50
NOSE TO STEERING WHEEL	9.00
NOSE TO INSTRUMENT PANEL	
INSTRUMENT PANEL TO TORSO	
STEERING WHEEL TO TORSO	3.10
STEERING WHEEL TOP LEGS	4.50
KNEE SPREAD OS-OS (HYB II) / CL-CL (HYB III)	8.20
SEAT BACK ANGLE	20.30
PELVIC ANGLE	21.30
HEAD ANGLE	0.50
ROCKER ANGLE	0.20
NECK BRACKET ANGLE	0.00
BUMPER TARGET TO GROUND	

RELATIVE MEASUREMENTS (INCH)	WRT FRT RKR TGT
-----	
HEAD LAT	14.10
HEAD VERT	34.10
HEAD LONG	8.50

SHOULDER LAT  
SHOULDER VERT  
SHOULDER LONG

H-POINT LAT	12.00
H-POINT VERT	12.10
H-POINT LONG	3.50

O/S KNEE BOLT LAT	12.50
O/S KNEE BOLT VERT	15.20
O/S KNEE BOLT LONG	-9.60

DUMMY MEASUREMENT REPORT  
CRASH BARRIER

RUN NUMBER 10801  
TEST ORDER NUMBER TA4571

DUMMY POSITION RIGHT FRONT  
DUMMY ABBREV 50H3

ABSOLUTE MEASUREMENTS (INCH)	MEASUREMENT
LEG (HYB II) / KNEE (HYB III) TO INST PANEL LEFT	1.30
LEG (HYB II) / KNEE (HYB III) TO INST PANEL RIGHT	1.50
ROCKER TARGETS TO GROUND FRONT	7.40
ROCKER TARGETS TO GROUND REAR	7.80
NOSE TO STEERING WHEEL	
NOSE TO INSTRUMENT PANEL	15.20
INSTRUMENT PANEL TO TORSO	12.50
STEERING WHEEL TO TORSO	
STEERING WHEEL TOP LEGS	
KNEE SPREAD OS-OS (HYB II) / CL-CL (HYB III)	7.80
SEAT BACK ANGLE	20.60
PELVIC ANGLE	23.90
HEAD ANGLE	0.50
ROCKER ANGLE	0.40
NECK BRACKET ANGLE	0.00
BUMPER TARGET TO GROUND	

RELATIVE MEASUREMENTS (INCH)	WRT FRT RKR TGT
HEAD LAT	14.40
HEAD VERT	35.40
HEAD LONG	7.80
SHOULDER LAT	
SHOULDER VERT	
SHOULDER LONG	
H-POINT LAT	12.00
H-POINT VERT	12.90
H-POINT LONG	5.00
O/S KNEE BOLT LAT	12.60
O/S KNEE BOLT VERT	15.20
O/S KNEE BOLT LONG	-8.30



**FINAL TEST REPORT**

**Global Test Operations  
Advanced Vehicle Technology**

**CONFIDENTIAL**  
**"RECORD COPY"**  
Schedule No. 2-213  
Retain Until 2018

**TO:** J. Boland

Test Order No. T-A4599  
Work Task W. O. No. XRT39  
Test Date 8/21/97  
Date Reported 5/20/98  
Sheet 1 of 157


**SUBJECT:** Crash Test 10806 (90° Front 25% Offset Vehicle to Vehicle Impact at  $44.8 \pm 0.4$  mph,  $72.1 \pm 0.6$  km/h) - 199X Taurus (DN-101) 4-Door Sedan into a 1997 Taurus 4-Door Sedan

**REQUESTED BY:** Vehicle Safety and CAB Department, Advanced Vehicle Technology - K. Ewing

**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.

S. Pingleton  
Test Development Engineer

Concur:   
K. Burns  
Section Supervisor  
Operations Engineering Section  
5/29/98

## VEHICLE DATA: (BULLET)

Make and Model 199X Taurus (DN-101) 4-Door Sedan  
 ID Numbers 1FALP52D4TG134260, 311-T-898, DGBL02  
 Power Train 3.0L, EFI, Automatic (A4N) Transaxle  
 Fuel Tank(s) Test Condition: Empty  
 Front Seat(s) Type: Bucket  
 Cover: Cloth  
 Tracks/Position: LF: 6-Way Power/Mechanical Mid and Down  
 RF: Manual/Mechanical Mid  
 Seat Backs/Position: Adjustable/LF: 19.6° Rear of Vertical, RF: 20.0° Rear of Vertical  
 Head Restraints/Position: Adjustable/Down  
 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  
 Occupants LF & RF: 5th Percentile Female, Hybrid III, Instrumented  
 Test Weight Front: 2270 lb (1030 kg)  
 Rear: 1920 lb (871 kg)  
 Total: 4190 lb (1901 kg)  
 Tires Front: P205/65R15 30 psi (207 kPa)  
 Rear: P205/65R15 30 psi (207 kPa)  
 Spare: Removed  
 Significant Content or Accessories: Air Conditioning, Power Steering, Power Brakes, Tilt Steering Wheel

## VEHICLE DATA: (TARGET)

Make and Model	1997 Taurus 4-Door Sedan	
ID Numbers	1FALP53S7VA108447, 306-T-318, DC9L05	
Power Train	3.0L, EFI, Automatic (AX4N) Transaxle	
Fuel Tank(s)	Test Condition: Empty	
Front Seat(s)	Type: Bucket	
	Cover: Cloth	
	Tracks/Position: LF: 6-Way Power/Mechanical Mid and Down	
	RF: Manual/Mechanical Mid	
	Seat Backs/Position: Adjustable/Not Measured	
	Head Restraints/Position: Adjustable/Down	
	Lumbar Support/Position: LF: Power/Deflated	
Restraint System	LF & RF: 3-Point Continuous Loop Active Belt	
Occupants	LF & RF: Water-Filled Containers (Simulating 50th Percentile Male, Hybrid II, Uninstrumented Dummies)	
Test Weight	Front: 1836 lb (833 kg)	
	Rear: 1554 lb (705 kg)	
	Total: 3390 lb (1538 kg)	
Tires	Front: P205/65R15	30 psi (207 kPa)
	Rear: P205/65R15	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):

Vehicle to Vehicle Impact Tests, T-657-P4-90 dated July 17, 1996.

**1.1 Vehicle Alignment**

The front longitudinal centerline of the bullet vehicle was offset 25% to the right of the front longitudinal centerline of the target vehicle. Both vehicles were in level attitude as specified by the requester.

**2. Remarks**

Crash movies, pre- and post- crash still images of the test vehicle and copies of this report are available only through the Crash Test Operations Section after permission is obtained from the test requesting department. The crash still images are stored on CD ROMs. The file names of the still images are listed under crash number and a three digit sequence number which are 10806001 through 10806053.



**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.

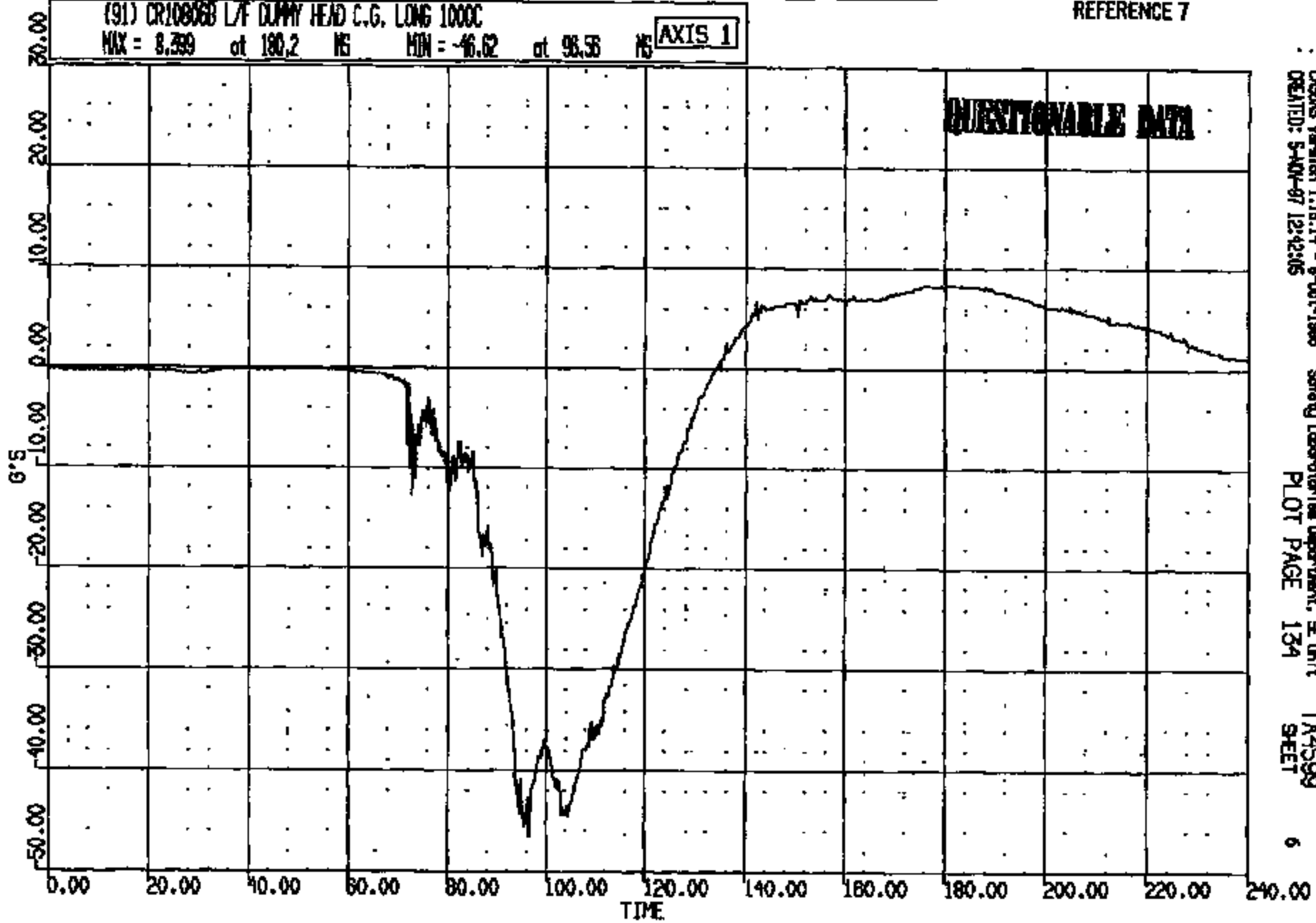
Time histories of vehicle dynamic displacements obtained from Film Analysis are included in this report.

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

R: 10806 TO: TA4599 DATE: 870821 08:51:21  
199X DN-101 199X DN-101

TIME-ZERO CORRECTED  
IN ACCORDANCE WITH SF-25  
REFERENCE 7

(91) CR108068 L/F DUMMY HEAD C.G. LONG 1000C  
MAX = 8.399 at 180.2 NS MIN = -46.62 at 98.56 NS **AXIS 1**



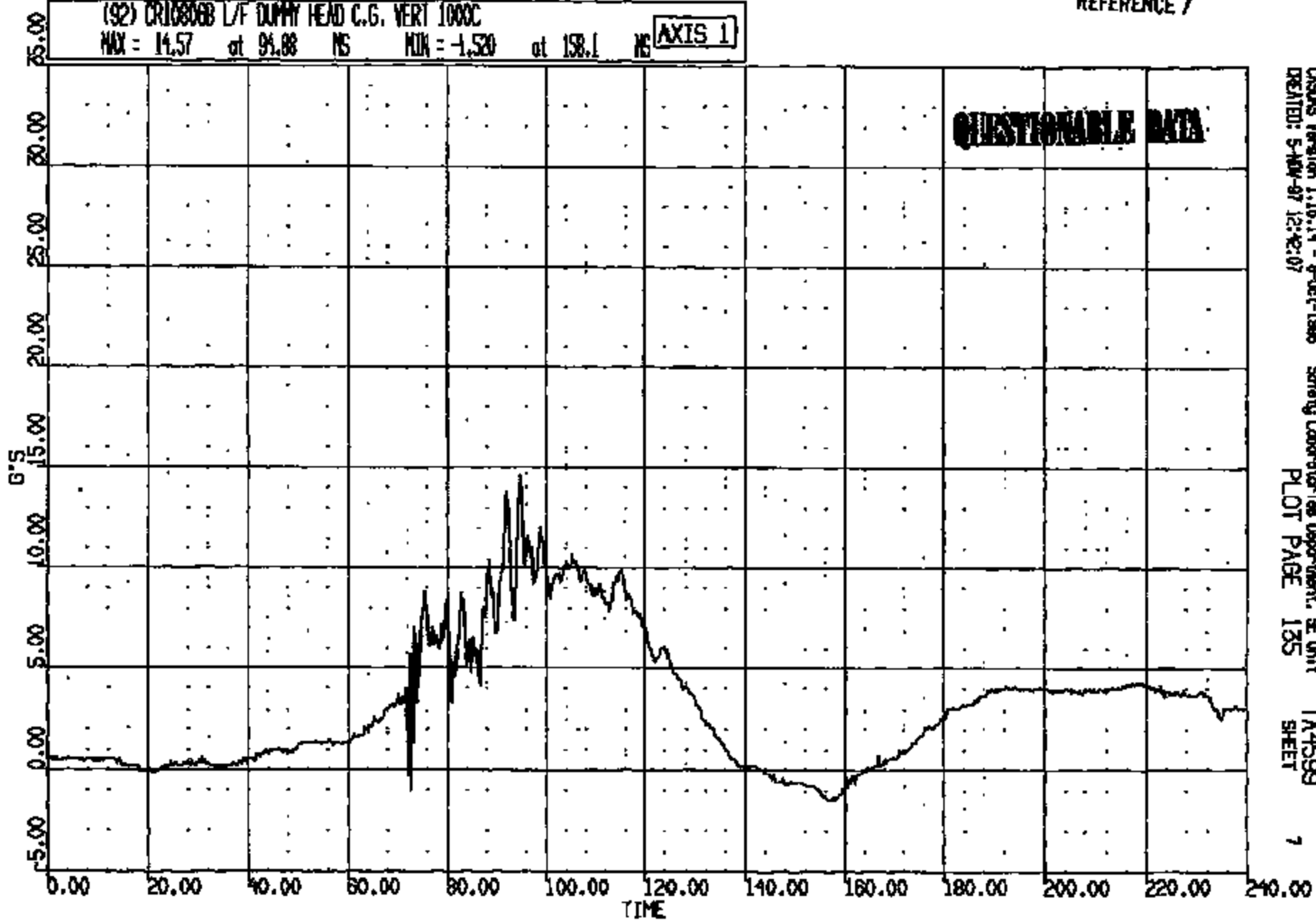
CRSIS Version 1.15.14 - 8-Oct-1988 Safety Laboratory Department, SE Unit TA4599  
CREATED: S-MW-87 12:42:05 PLOT PAGE 134 SHEET 6

CRSIS 0010806

R: 10808 TO: TA4599 DATE: 970821 09:31:21  
199X DN-101 199X DN-101

TIME-ZERO CORRECTED  
IN ACCORDANCE WITH ST-25  
REFERENCE 7

(92) CR10808B L/F DUMMY HEAD C.G. VERT 1000C  
MAX = 14.57 at 94.88 NS MIN = -1.520 at 158.1 NS **AXIS 1**



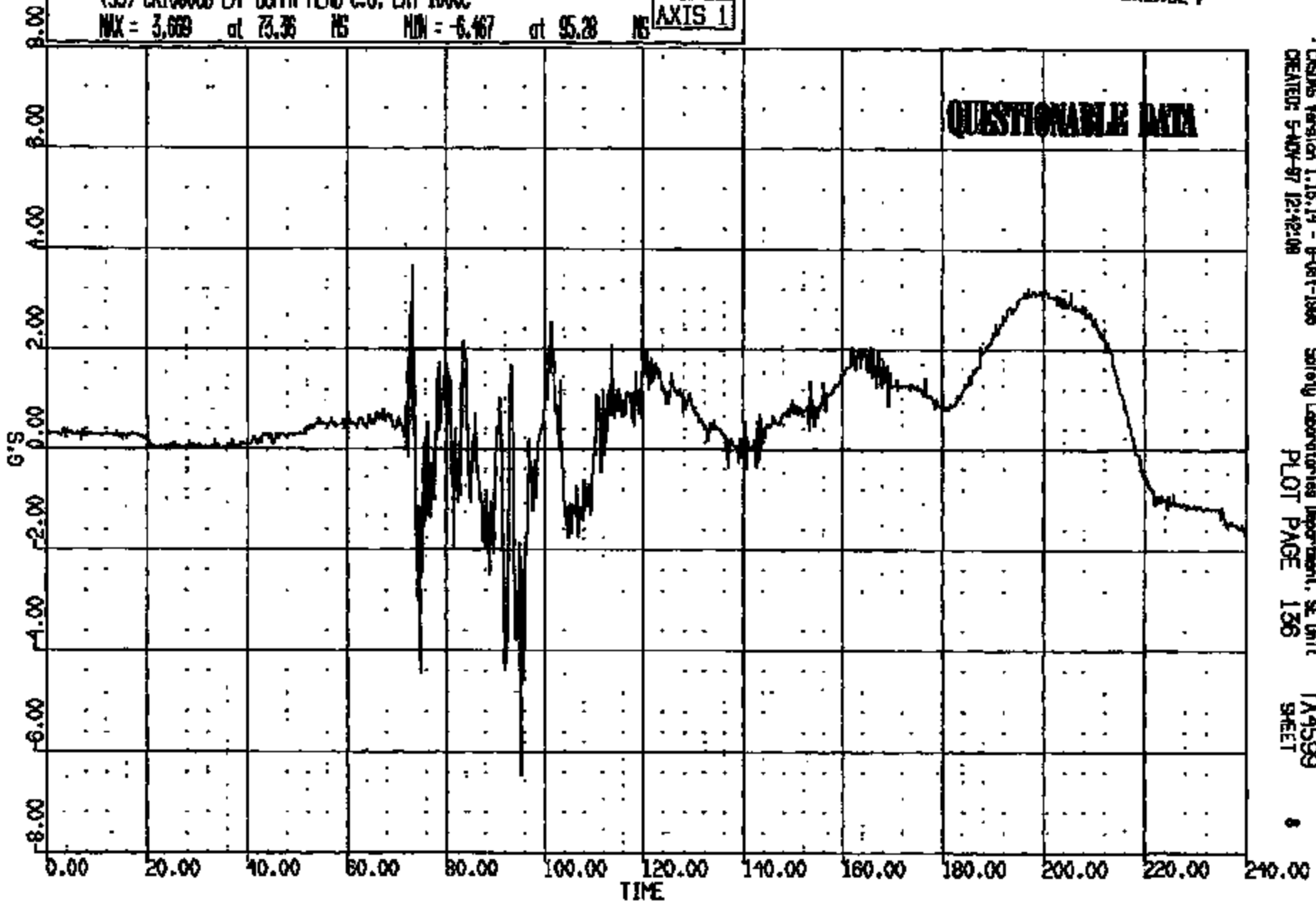
CRS04S Version 1.16.14 - 8-Oct-1988 Safety Laboratories Department, SE Unit TA4599  
CREATED: 5-NOV-87 12:42:07 PLOT PAGE 135 SHEET 7

CRIS 0010806

R: 10806 TO: TA4599 DATE: 970822 08:51:21  
199X DN-101 199X DN-101

TIME-ZERO CORRECTED  
IN ACCORDANCE WITH ST-25  
REFERENCE 7

(93) CR108068 LAF DUMMY HEAD C.G. LAT 1000C  
MAX = 3.669 at 73.36 MS MIN = -6.467 at 95.28 MS **AXIS 1**



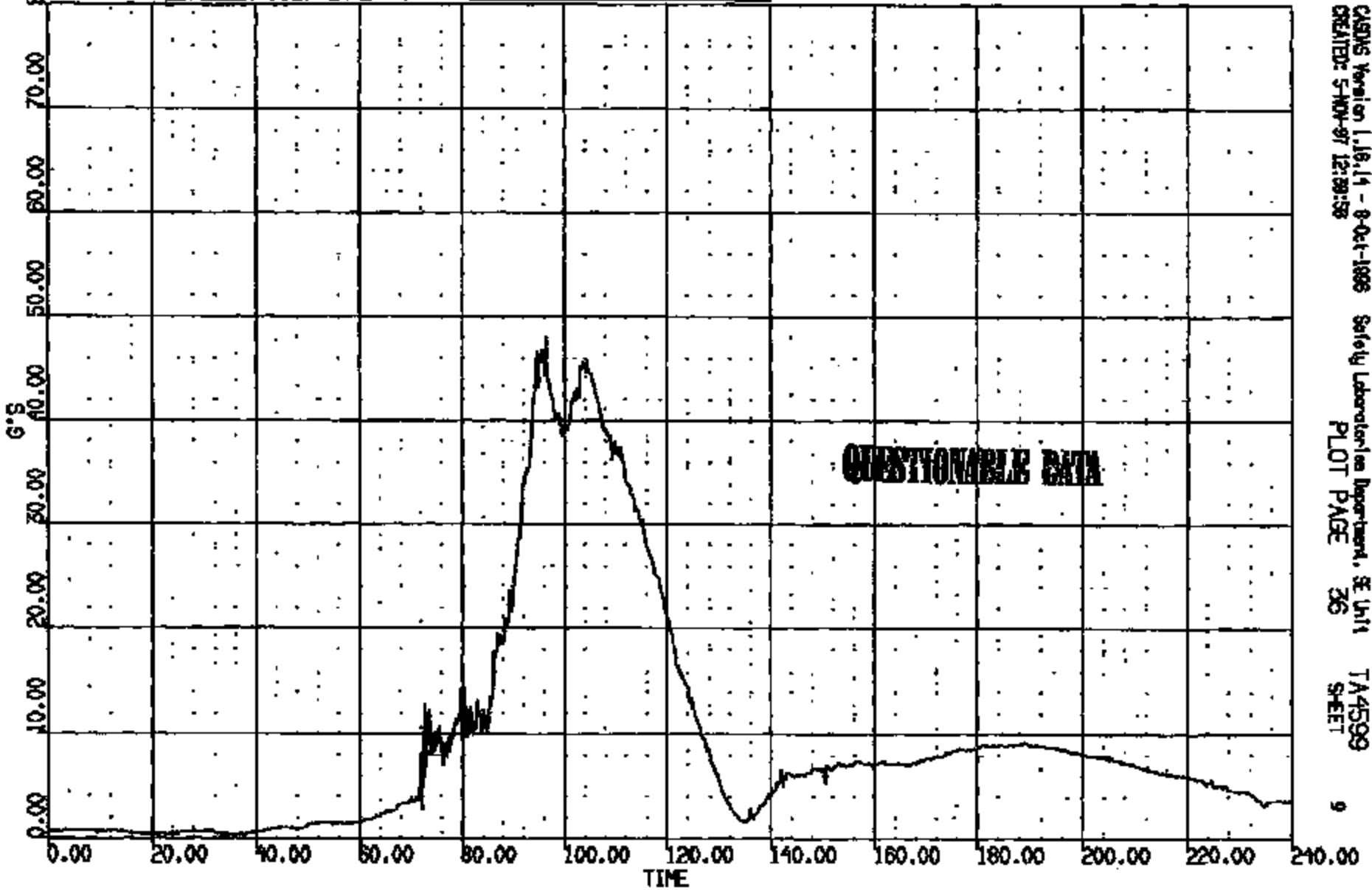
CHDS Version 1.18.14 - 8-Oct-1998 Safety Laboratories Department, SE Unit TA4599  
CREATED: 5-NOV-97 12:42:08 PLOT PAGE 136 SHEET

CRTS 0010806

EXP R: 10806 TO: TA4599 DATE: 970821 08:51:21  
 IIMHX: DZ10806 198X DZ10806  
 IIMHX: DZ10806 198X DZ10806  
 IIMHX: DZ10806 198X DZ10806  
 DUR: 88.0 T1/T2: 88.1 // 180.0  
 DUR: 18.0 T1/T2: 88.1 // 180.0  
 DUR: 18.0 T1/T2: 88.6 // 108.0

TIME-ZERO CORRECTED  
 IN ACCORDANCE WITH ST-25  
 REFERENCE 7

(1000) CR10806B L/F DUMMY HEAD C.G. RES 1000C  
 MAX = 18.04 at 95.58 MS MIN = 0.2228 at 35.36 MS **AXIS 1**



CASUS Version 1.16.14 - 0-01-1998 Safety Laboratories Department, SE Unit  
 CREATED: 5-Nov-97 12:39:58  
 PLOT PAGE 26  
 TA4599  
 SHEET 9

CRIS 0010806

CR R: 10808 TD: TA4599 DATE: 870821 09:31:21  
199X DN-101 199X DN-101

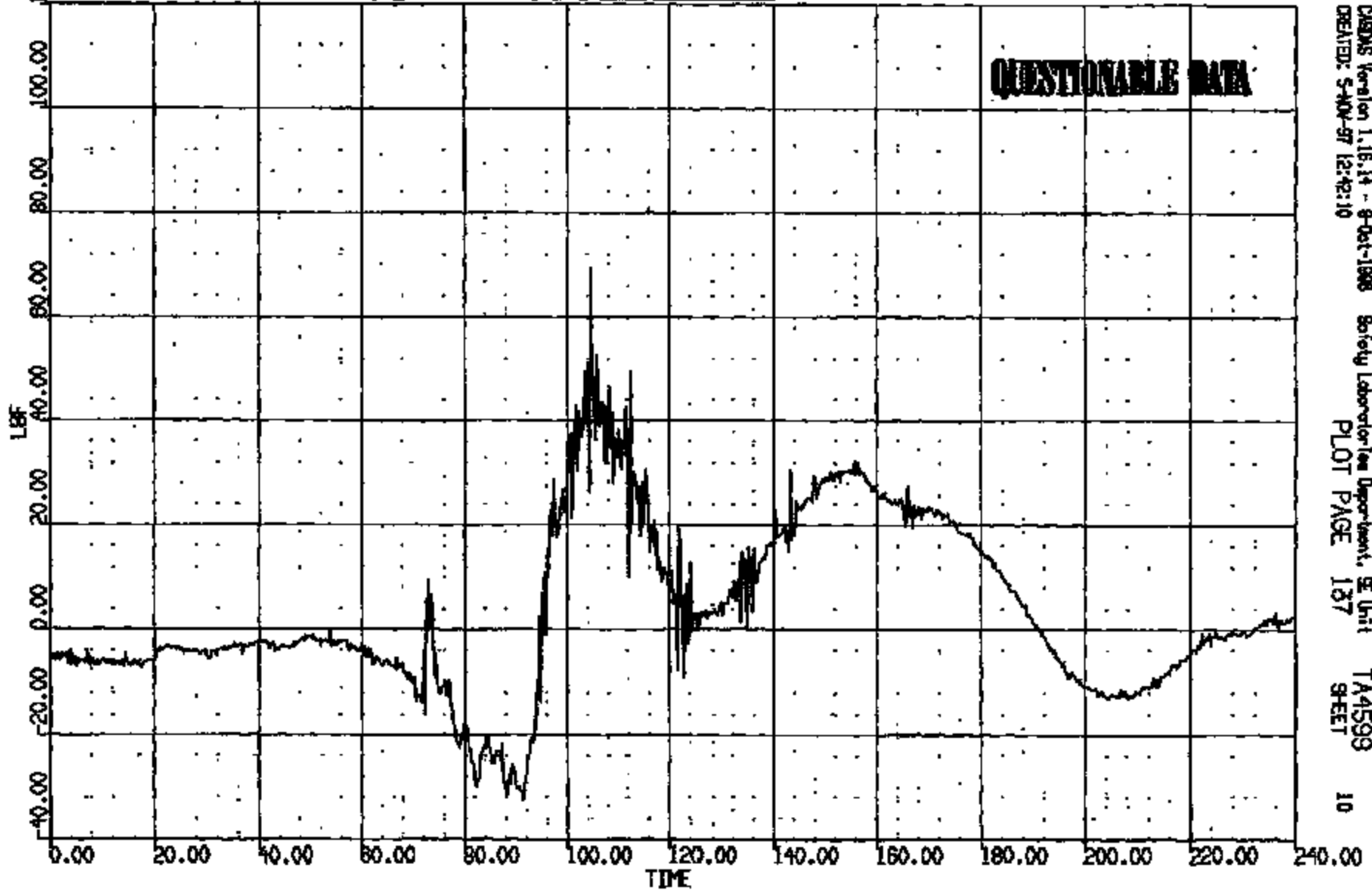
TIME-ZERO CORRECTED  
IN ACCORDANCE WITH ST-25  
REFERENCE 7

(94) CR10808B L/F DUMMY NECK UPPER LOAD FX 1000C

MAX = 69.28 at 104.6 MG MIN = -32.56 at 91.28 MG

AXIS 1

QUESTIONABLE DATA



CRAMS Version 1.16.14 - 9-Oct-1988 Safety Laboratory Department, SE Unit TA4599  
CREATED: 5-MAY-97 12:42:10 PLOT PAGE 137 SHEET 10

CR #: 10808 TO: TA4599 DATE: 970821 09:21:21  
199X DN-101 199X DN-101

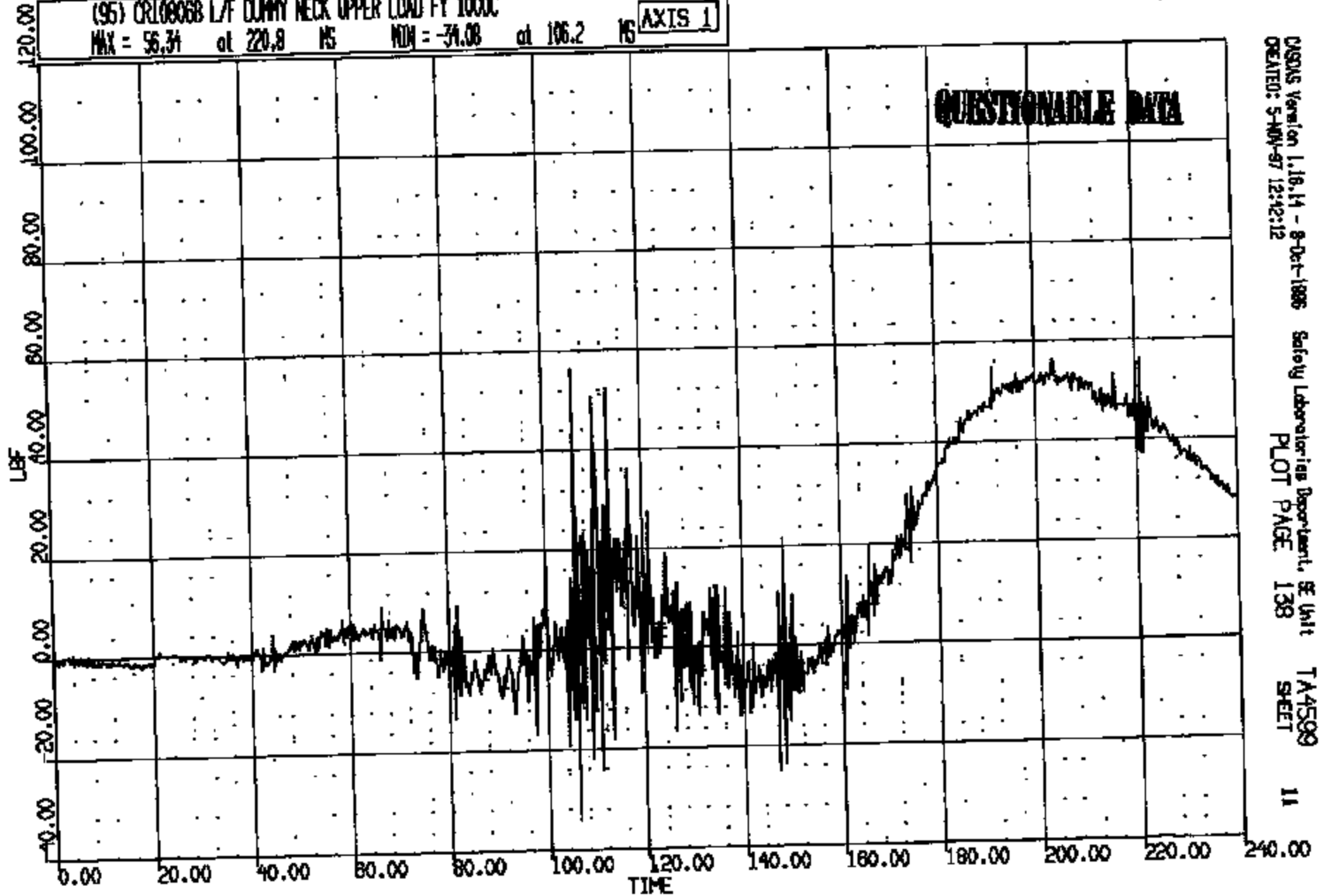
TIME-ZERO CORRECTED  
IN ACCORDANCE WITH ST-25  
REFERENCE 7

(95) CR108068 L/F DUMMY NECK UPPER LOAD FY 1000C

MAX = 56.31 at 220.8 MS MIN = -34.08 at 106.2 MS

AXIS 1

QUESTIONABLE DATA



DSDAS Version 1.16.14 - 8-Oct-1986 Safety Laboratories Department, SE Unit TA4599  
CREATED: 5-NM-97 12:42:12 PLOT PAGE 138 SHEET 11

CRTS 0010806

CR R: 10806 TD: TA4599 DATE: 970821 09:51:21  
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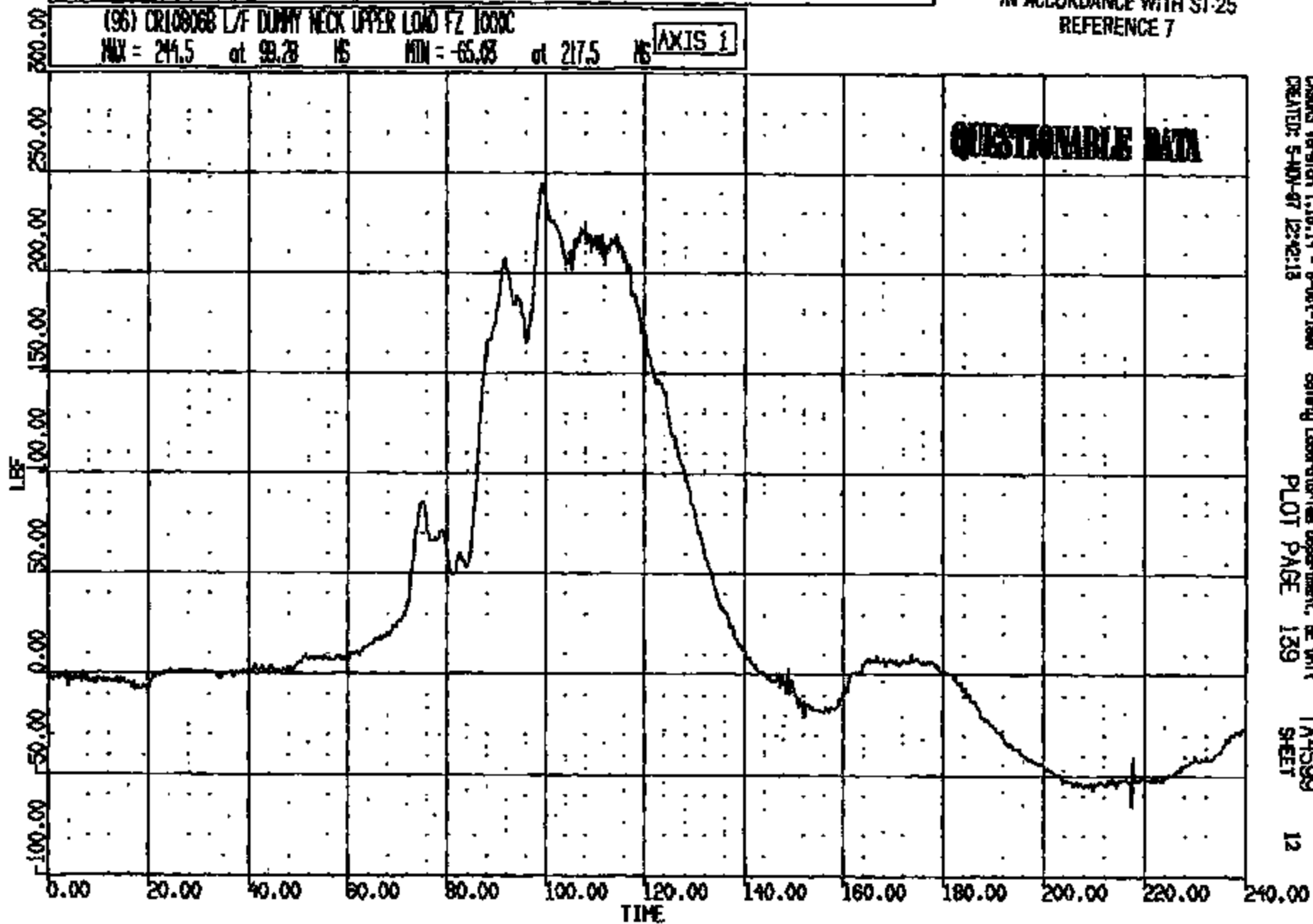
TIME-ZERO CORRECTED  
IN ACCORDANCE WITH ST-25  
REFERENCE 7

(96) CR108068 L/F DUMMY NECK UPPER LOAD FZ 1000C

MAX = 244.5 at 99.28 MS MIN = -65.03 at 217.5 MS

AXIS 1

QUESTIONABLE DATA



CHSMS Version 1.18.14 - 8-Oct-1998  
CREATED: 5-AUG-97 12:42:18

Safety Laboratory Department, SE Unit  
PLOT PAGE 139

TA4599  
SHEET

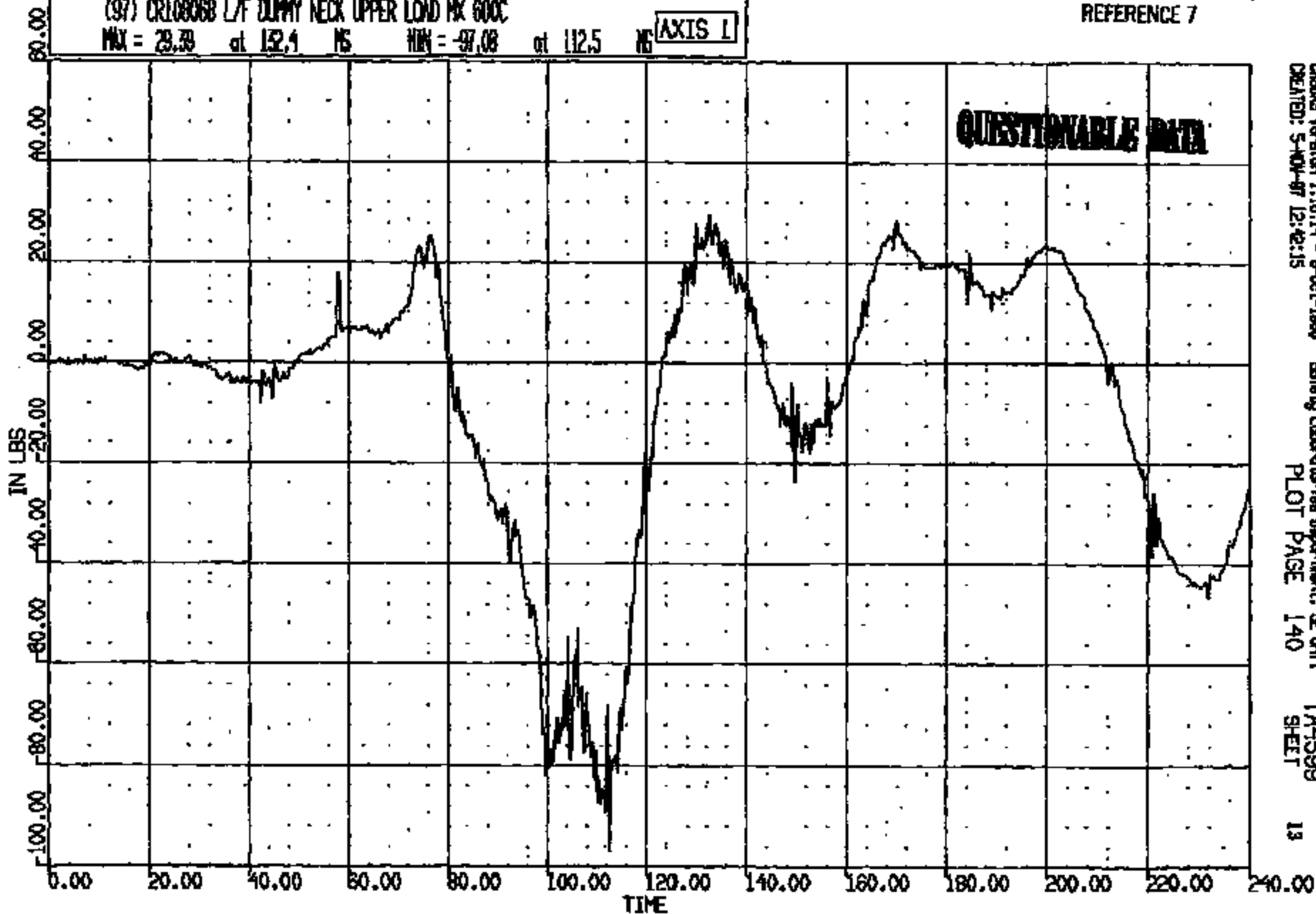
12



CR R: 10808 TO: TA4599 DATE: 970821 09:31:21  
189X DN-101 189X DN-101

TIME-ZERO CORRECTED  
IN ACCORDANCE WITH ST-25  
REFERENCE 7

(97) CR100068 L/F DUMMY NECK UPPER LOAD PK 600C  
MAX = 29.39 at 152.4 MS MIN = -97.08 at 112.5 MS **AXIS 1**



CASUS Verdon 1,18,14 - 9-Oct-1998  
CREATED: 5-MAY-97 12:42:15

Safety Laboratories Department, SE Unit 1  
PLOT PAGE 140

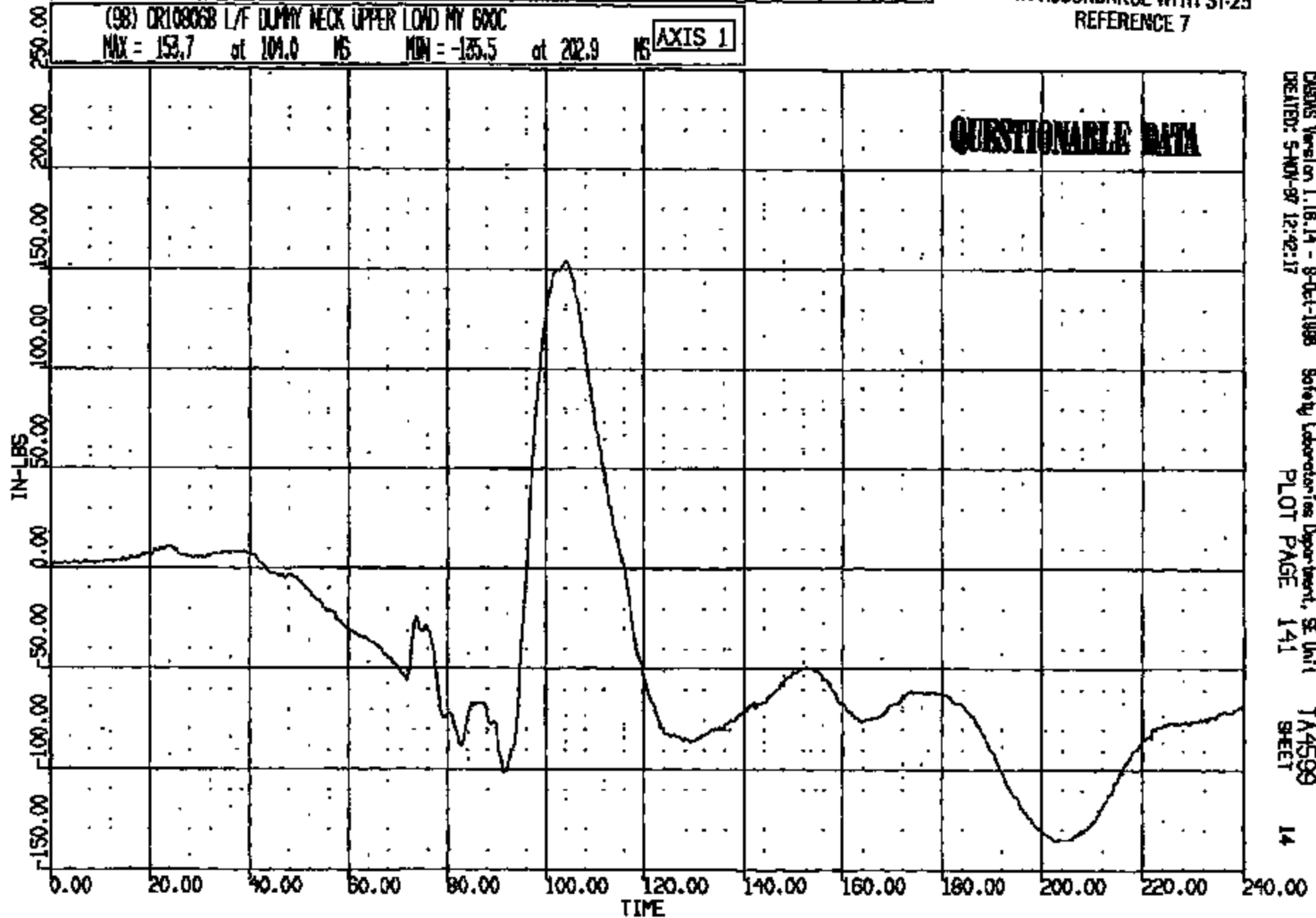
TA4599  
SHEET

13

CR R: 10806 TO: TA4599 DATE: 970821 08:31:21  
189X DN-101 189X DN-101

TIME-ZERO CORRECTED  
IN ACCORDANCE WITH ST-25  
REFERENCE 7

(98) DR108068 L/F DUMMY NECK UPPER LOAD MY 600C  
MAX = 153.7 at 101.0 MS MIN = -135.5 at 202.9 MS **AXIS 1**



DIAGNOS Version 1.18.14 - 8-Oct-1998 Safety Laboratories Department, SE Unit 1  
CREATED: 5-NOV-97 12:42:17 PLOT PAGE 141 SHEET 14

CRTS 0010806

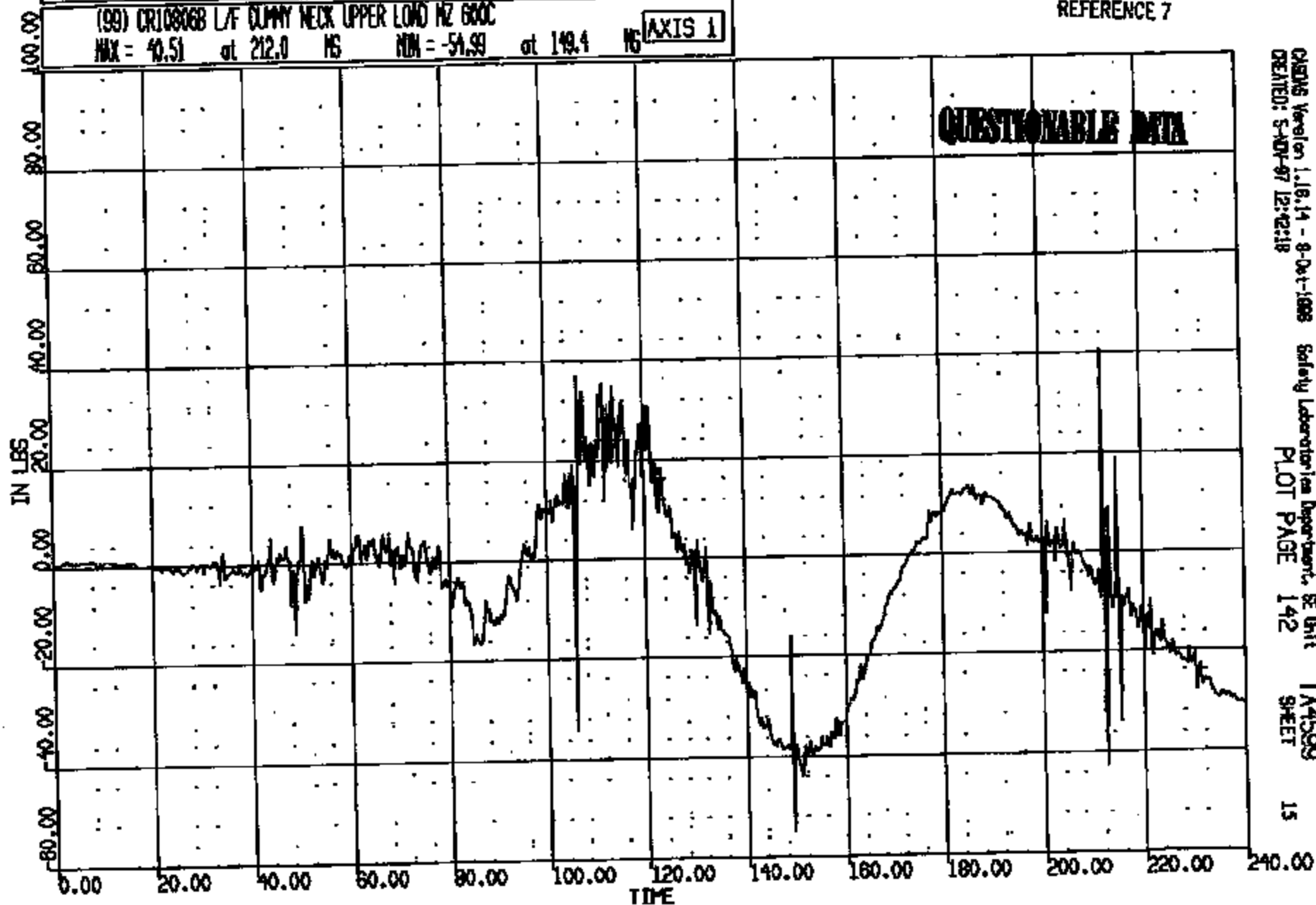
CR R: 10806 TO: TA4599 DATE: 870821 09:51:21  
189X DN-101 189X DN-101

TIME-ZERO CORRECTED  
IN ACCORDANCE WITH ST-25  
REFERENCE 7

(99) CR108068 L/F DUMMY NECK UPPER LOAD NZ 600C

MAX = 40.51 at 212.0 MS MIN = -54.99 at 149.4 MS

AXIS 1



CRSIS Version 1.18.14 - 8-Oct-1988 Safety Laboratory Department, SE Unit TA4599  
CREATED: 5-NOV-87 12:42:18 PLOT PAGE 142 SHEET 15

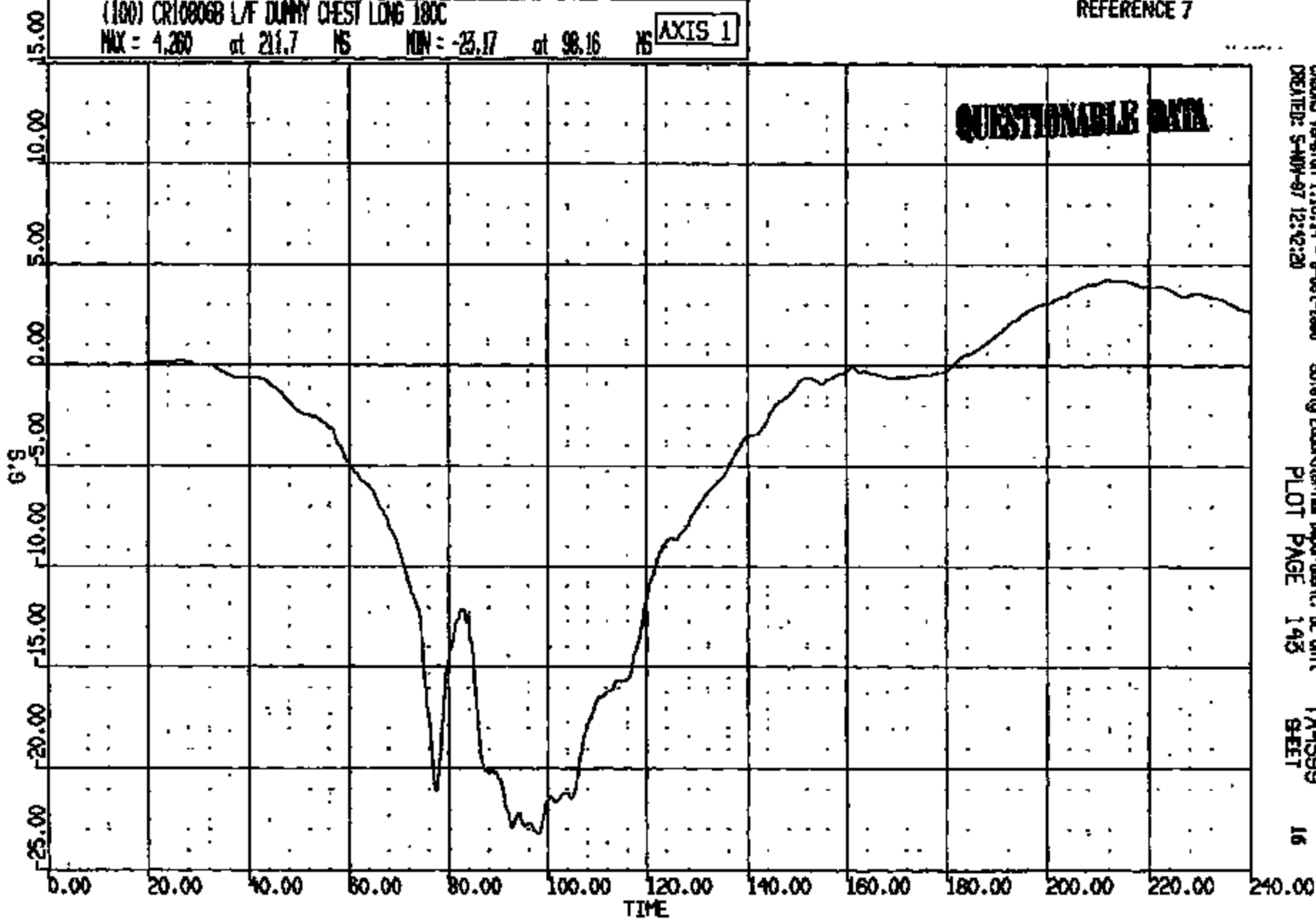
CRIS 0010806

CR N: 10805 TO: TA4599 DATE: 870821 09:31:21  
199X DN-101 199X DN-101

TIME-ZERO CORRECTED  
IN ACCORDANCE WITH ST-25  
REFERENCE 7

(100) CR108068 L/F DUMMY CHEST LONG 180C  
MAX = 4.260 at 211.7 NS MIN = -23.17 at 98.16 NS **AXIS 1**

**QUESTIONABLE DATA**



CASING Version 1.16.14 - 8-04-1998 Safety Laboratories Department, BE Unit  
CREATED: S-MW-97 12:42:20 PLOT PAGE 143 SHEET 16

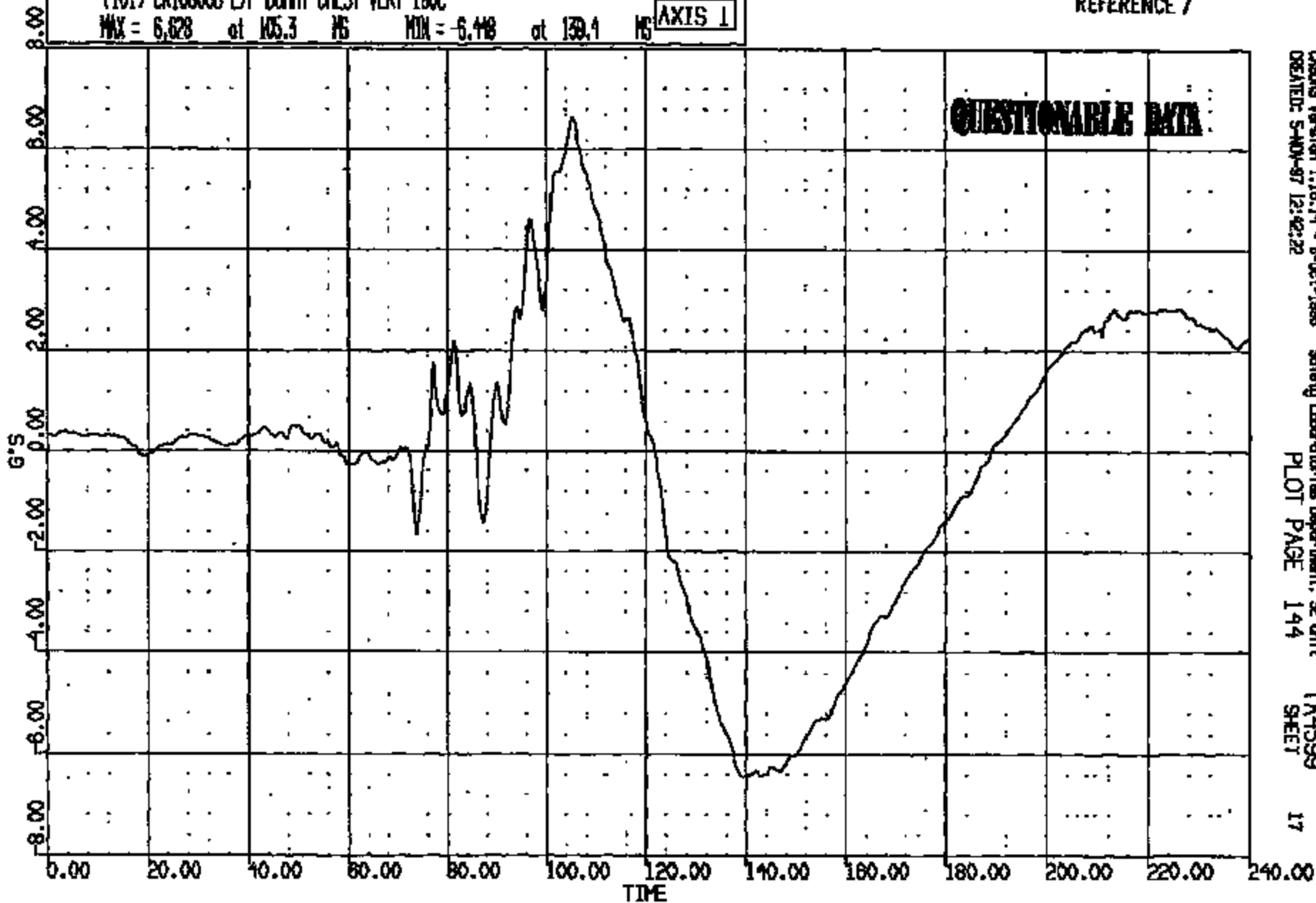
CR R: 10806 TO: TA4599 DATE: 970821 09:31:21  
199X DN-101 199X DN-101

TIME-ZERO CORRECTED  
IN ACCORDANCE WITH ST-25  
REFERENCE 7

(101) CR108068 L/F DUMMY CHEST VERT 180C

MAX = 6.628 at 105.3 MS MIN = -6.448 at 139.1 MS

AXIS 1



CRSIS Version 1.16.14 - 8-04-1998  
CREATED: S-MON-97 12:42:22

Safety Laboratories Department, SE Unit  
PLOT PAGE 144

TA4599  
SHEET

17

CR R: 10808 TO: TA4599 DATE: 870821 09:51:21  
199X DN-101 199X DN-101

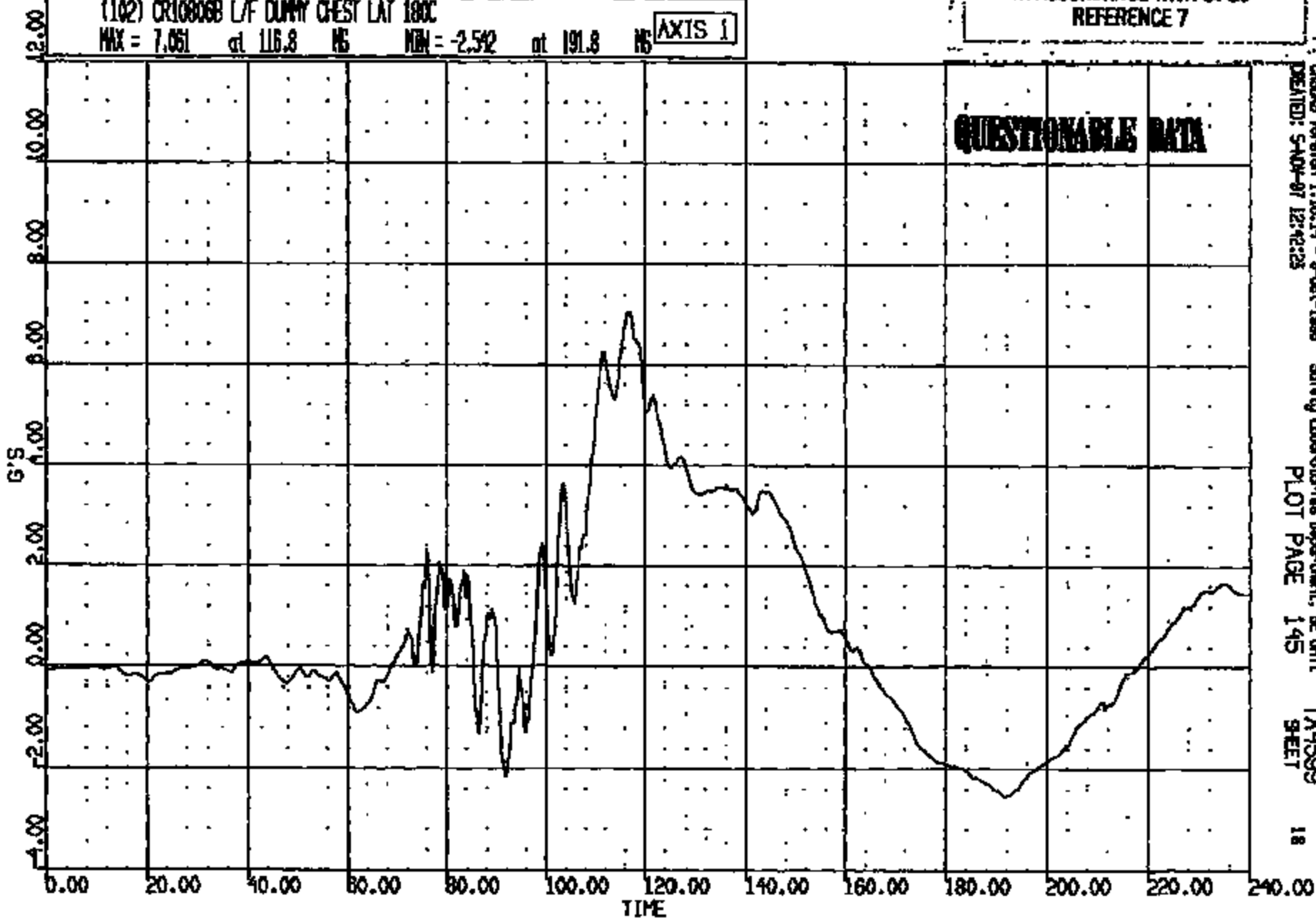
TIME-ZERO CORRECTED  
IN ACCORDANCE WITH ST-25  
REFERENCE 7

(102) CR10808B L/F DUMMY CHEST LAT 180C

MAX = 7.051 at 116.8 MS MIN = -2.542 at 191.8 MS

AXIS 1

QUESTIONABLE DATA



CRS05 Version 1.16.14 - 8-Oct-1988  
CREATED: 5-NOV-87 12:42:25

Safety Laboratories Department, BE Unit

PLOT PAGE 145

TA4599  
SHEET

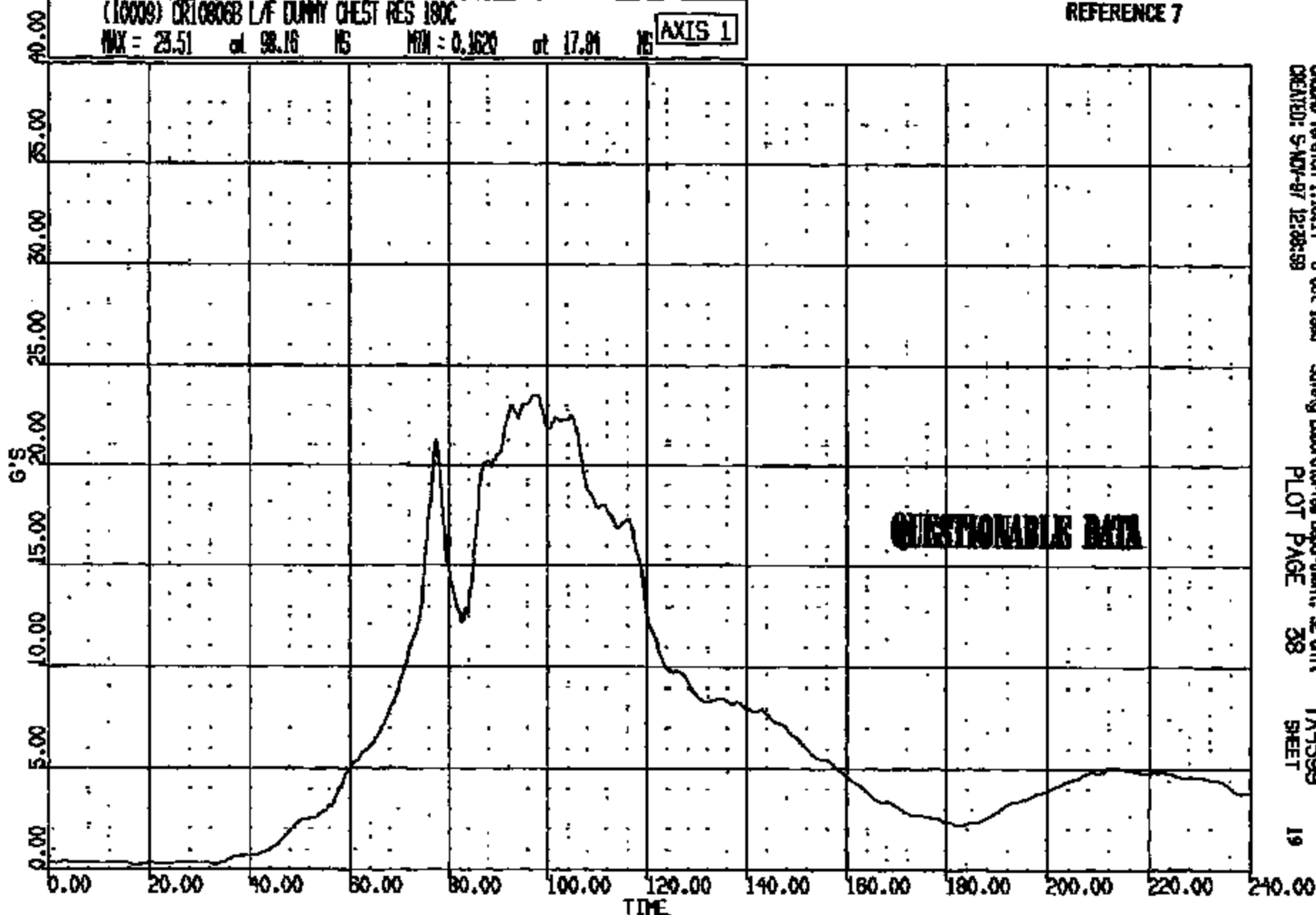
18

CR #: 10808 TD: TA4599 DATE: 970821 08:31:21  
199X DN-101 199X DN-101  
CUMDUR = 28.081 Duration time = 2.9920

TIME-ZERO CORRECTED  
IN ACCORDANCE WITH ST-25  
REFERENCE 7

(10009) CR10808B L/F DUNNY CHEST RES 180C

MAX = 23.51 at 98.16 NS MIN = 0.1620 at 17.04 NS **AXIS 1**



CASUS Version 1.16.14 - 8-Oct-1998 Safety Laboratories Department, SE Unit TA4599  
CREATED: 5-MAY-97 12:28:59 PLOT PAGE 38 SHEET 19

CR R: 10806 TO: TA4399 DATE: 970821 09:31:21  
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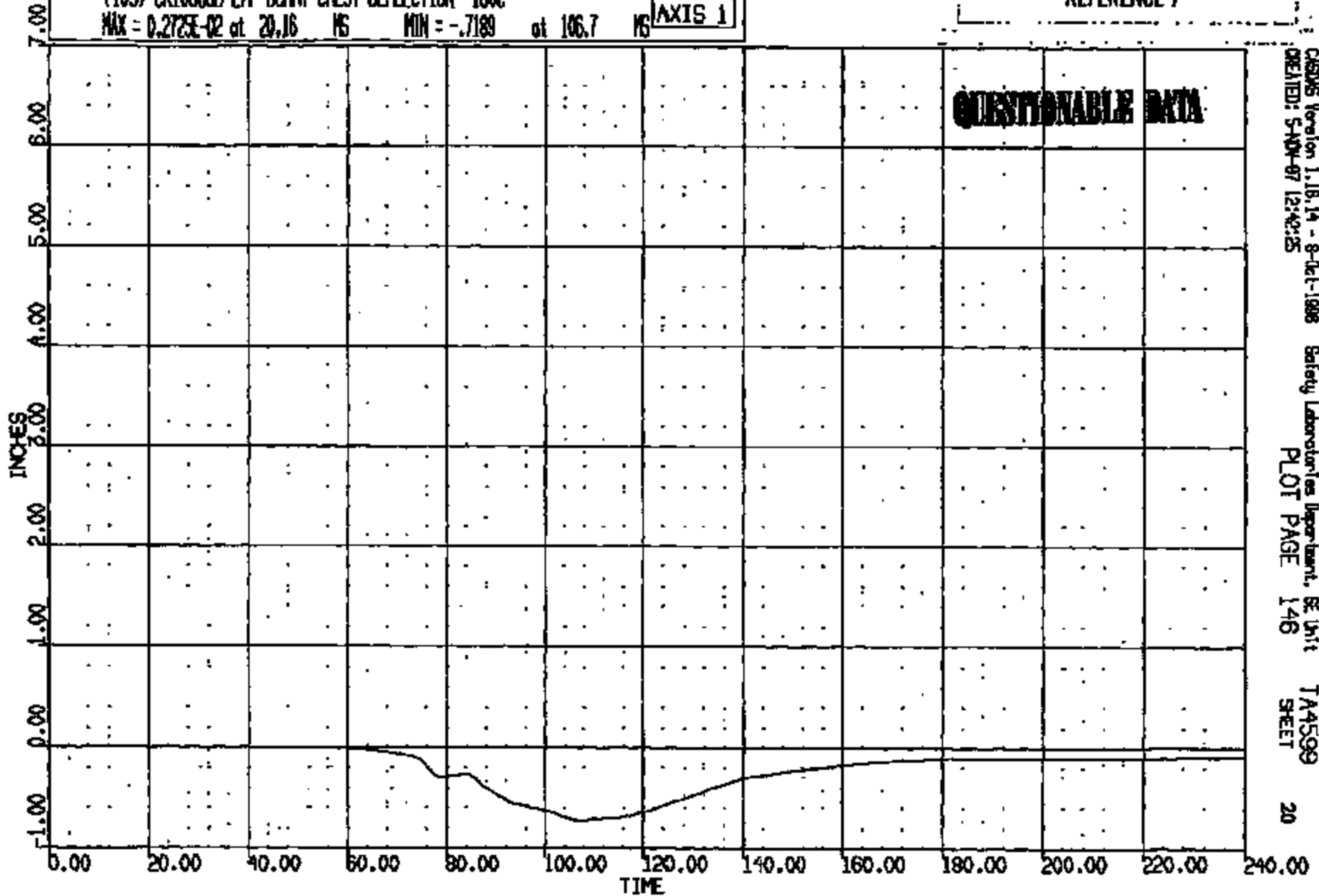
TIME-ZERO CORRECTED  
IN ACCORDANCE WITH ST-25  
REFERENCE 7

(103) CR10806B L/F DUMMY CHEST DEFLECTION 180C

MAX = 0.2725E-02 at 20.16 MS MIN = -.7189 at 106.7 MS

AXIS 1

QUESTIONABLE DATA



CASMS Version 1.18.14 - 8-04-1998  
CREATED: 5-NV-97 12:42:25

Safety Laboratories Department, SE Unit  
PLOT PAGE 146

TA4399  
SHEET

20

CRIS 0010806



CR #: 10806 TC: TA4599 DATE: 870821 09:31:21  
100X DN-101 100X DN-101

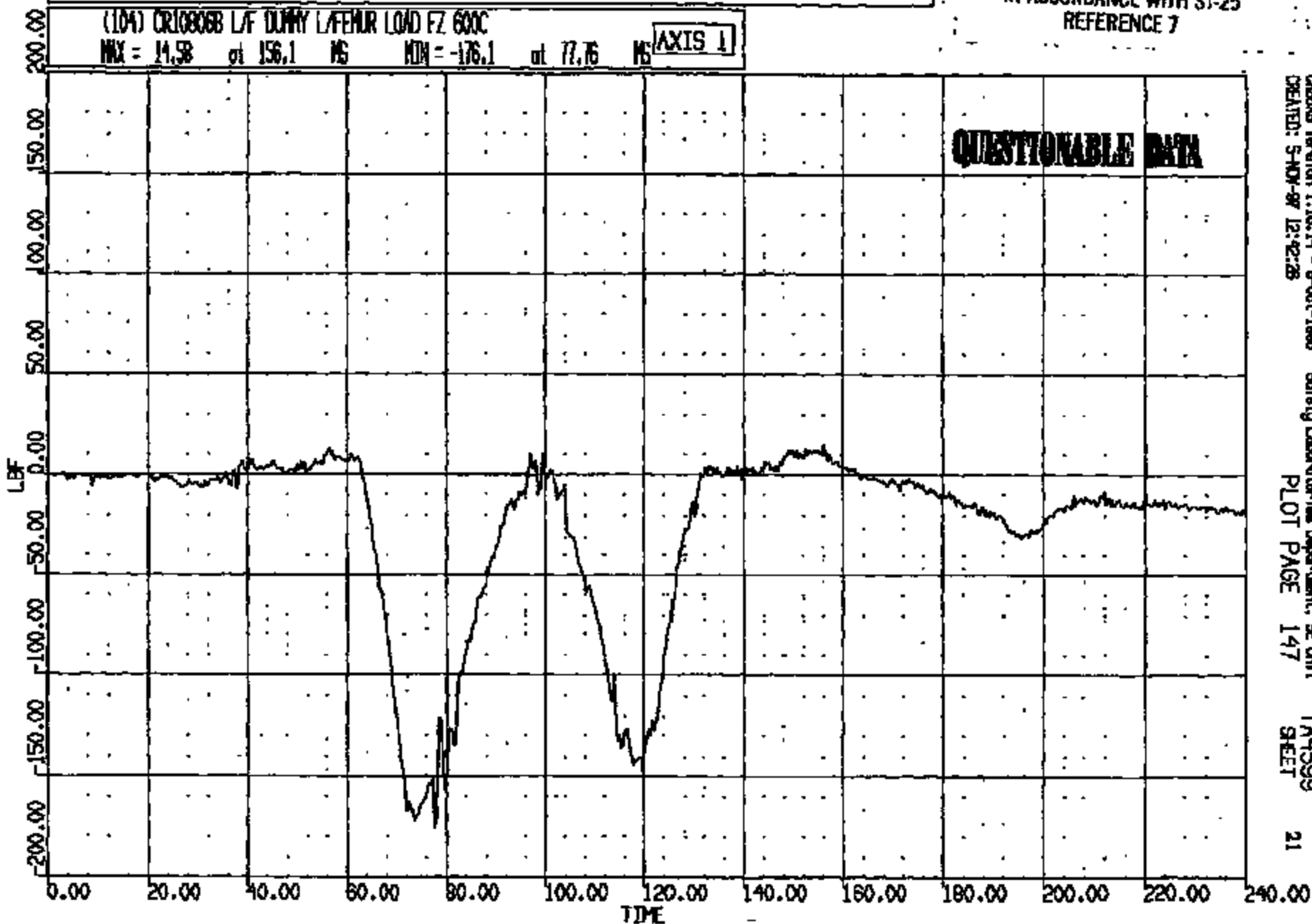
TIME-ZERO CORRECTED  
IN ACCORDANCE WITH ST-25  
REFERENCE 7

(104) CR10806B LF HUMPH LAFEMUR LOAD FZ 600C

MAX = 14.58 at 156.1 MS MIN = -176.1 at 77.76 MS

AXIS 1

QUESTIONABLE DATA



CRSIS Version 1.16.14 - 8-Oct-1986  
CREATED: 5-MAY-87 12:42:28

Safety Laboratories Department, SE Unit  
PLOT PAGE 147

TA4599  
SHEET

21

CR R: 10806 TO: TA4599 DATE: 970821 09:31:21  
199X DN-101 199X DN-101

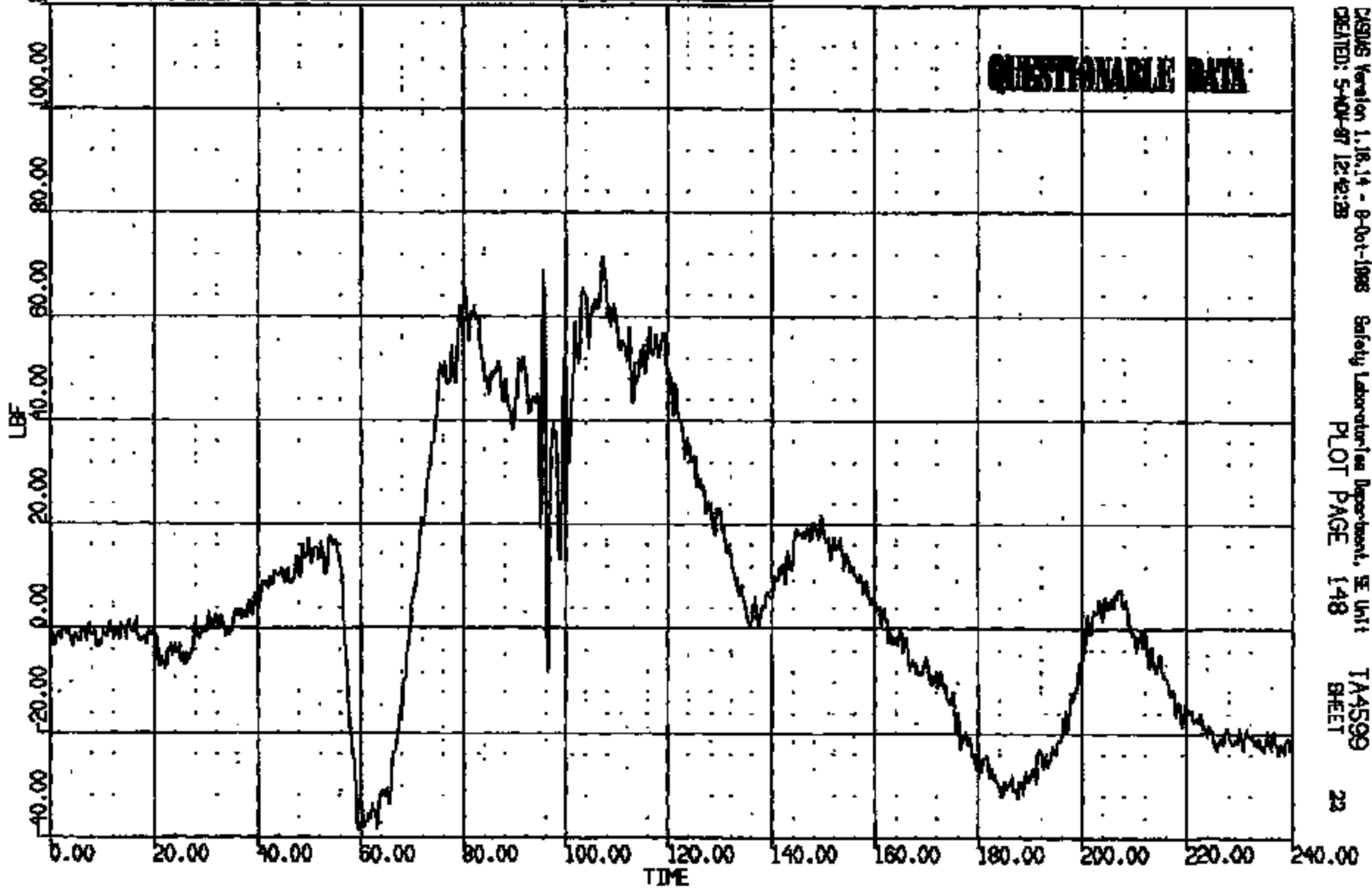
TIME-ZERO CORRECTED  
IN ACCORDANCE WITH ST-25  
REFERENCE 7

(105) CR10806B L/F DUMMY RATEUR LOAD FZ 600C

MAX = 71.46 at 107.2 MS MIN = -38.83 at 59.76 MS

AXIS 1

QUESTIONABLE DATA



DSHS Version 1.18.14 - 8-Oct-1998  
CREATED: 5-NOV-97 12:42:28

Safety Laboratory Department, SE Unit  
PLOT PAGE 148

TA4599  
SHEET

23

CRTS 0010806

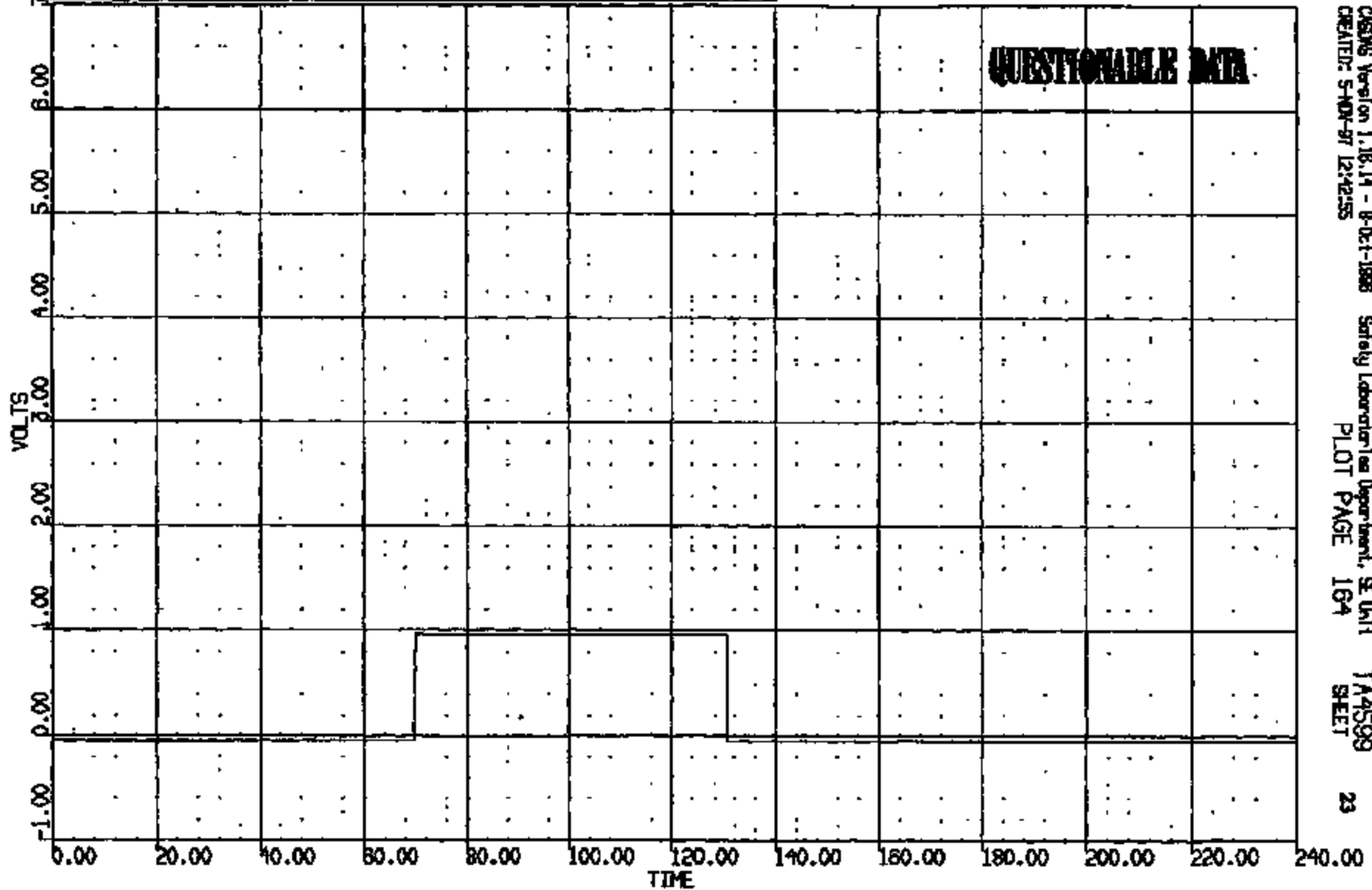
CR R: 10806 TO: TA4599 DATE: 970921 09:31:21  
199X DN-101 199X DN-101

TIME-ZERO CORRECTED  
IN ACCORDANCE WITH ST-25  
REFERENCE 7

(121) CR108068 L/F DUMMY L/FENUR SN 4000C  
MAX = 0.9570 at 70.00 NS MIN = -.495E-01 at -.762E-05 NS

AXIS 1

QUESTIONABLE DATA



CRS06 Version 1.18.14 - 9-01-1998 Safety Laboratories Department, SE Unit  
CREATED: 5-N03-97 12:42:55 PLOT PAGE 164 SHEET 23

CRTS 0010806

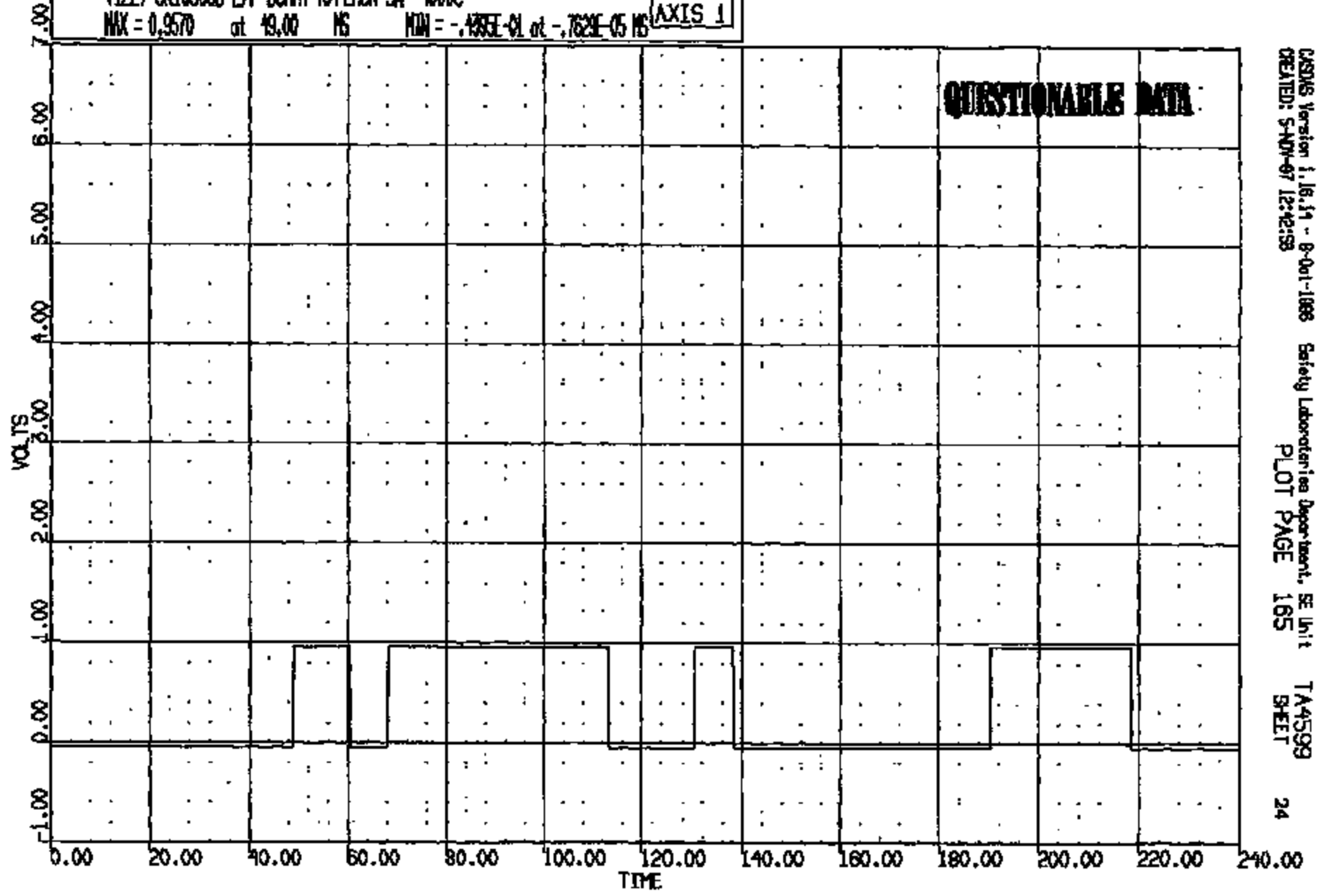
CR R: 10808 TO: TA4599 DATE: 870821 09:51:21  
199X DN-101 199X DN-101

TIME-ZERO CORRECTED  
IN ACCORDANCE WITH ST-25  
REFERENCE 7

(122) CR108088 L/F DUMMY REFENDR SN 4000C  
MAX = 0.9570 at 49.00 NS MIN = -.435E-01 at -.762E-05 NS

AXIS 1

QUESTIONABLE DATA



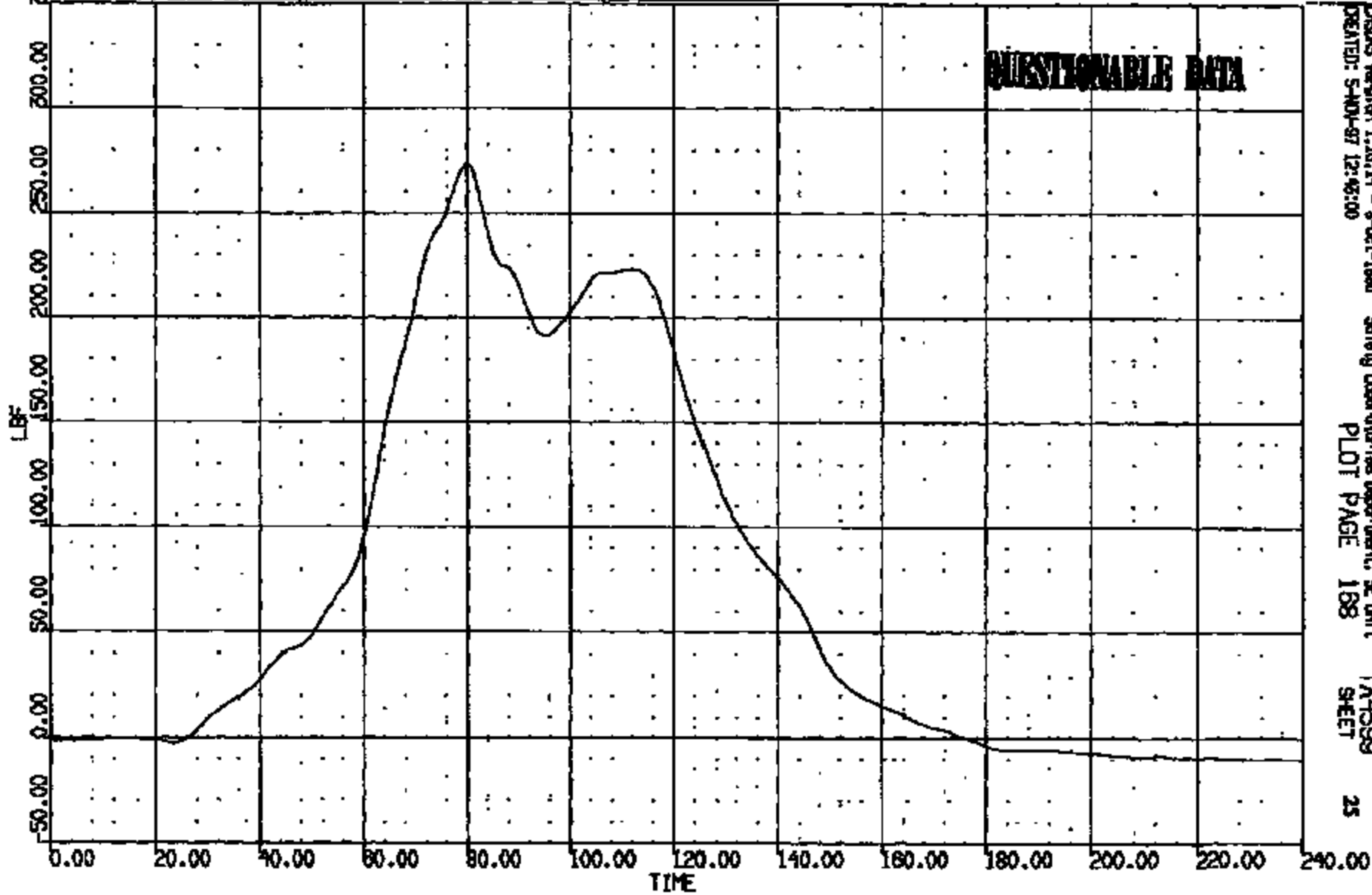
CRS08S Version 1.16.11 - 8-001-1888 Safety Laboratories Department, SE Unit TA4599  
CREATED: S-M-D-87 12:42:58 PLOT PAGE 165 SHEET 24

CRTS 0010806

CR R: 10808 TO: TA4598 DATE: 870821 08:51:21  
199X DN-101 199X DN-101

TIME-ZERO CORRECTED  
IN ACCORDANCE WITH SF-25  
REFERENCE 7

(125) CR108068 L/F LAP BELT @ ANCHOR 60C  
MAX = 273.3 at 80.00 MS MIN = -10.14 at 210.0 MS **AXIS 1**



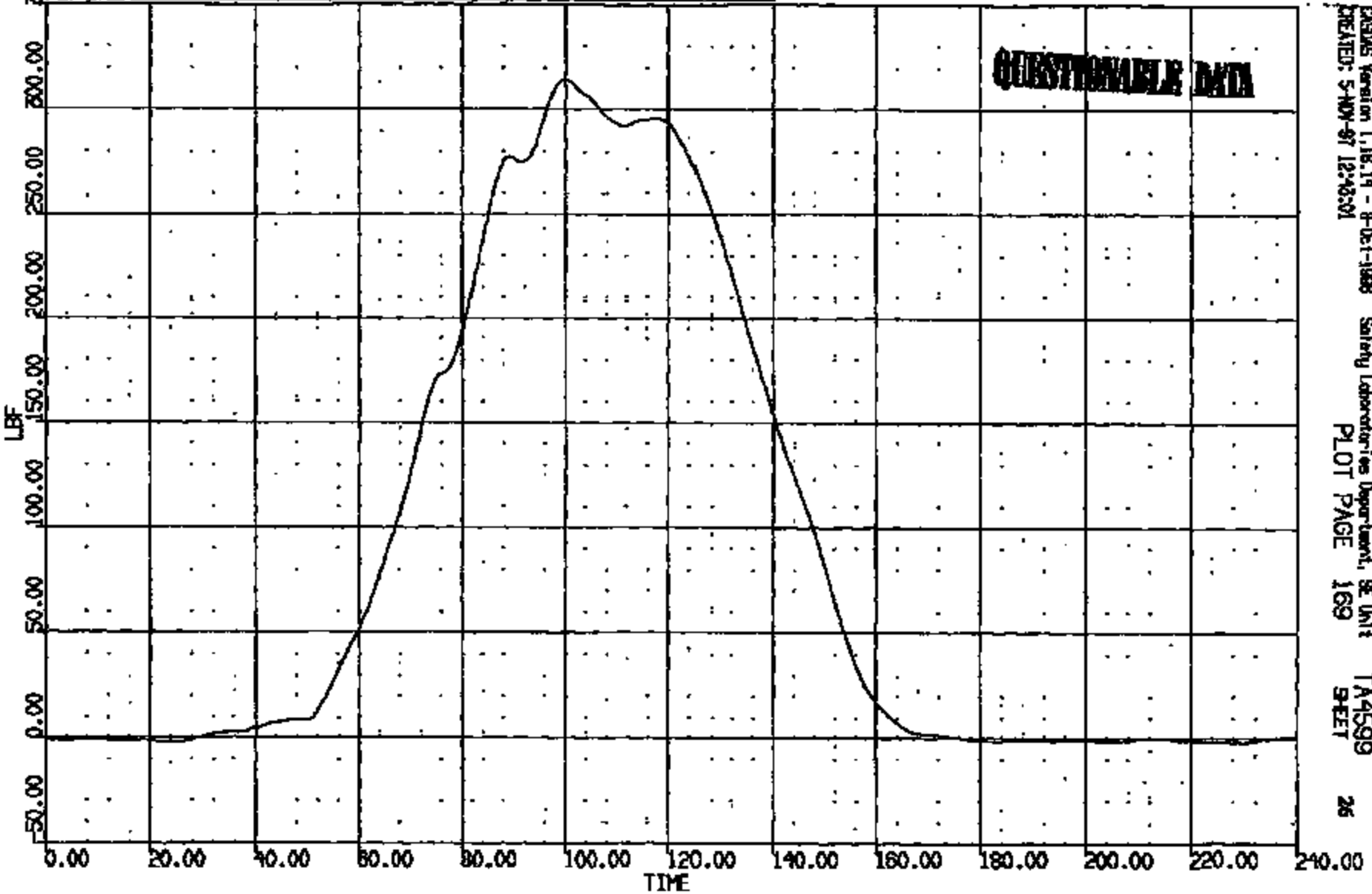
DISPOS Version 1.18.14 - 8-01-1988 Safety Laboratories Department, SE Unit  
CREATED: 5-MAY-87 12:45:00  
PLOT PAGE 198 SHEET  
TA4598  
25

CRIS 0010806

CR #: 10806 TO: TA4599 DATE: 970921 09:31:21  
199X DN-101 199X DN-101

TIME-ZERO CORRECTED  
IN ACCORDANCE WITH ST-25  
REFERENCE 7

(126) CR100068 L/F TORSO BELT & RETRACTOR 60C  
MAX = 314.0 at 100.0 MS MIN = -2.124 at 24.90 MS **AXIS 1**



EXSUS Version 1.16.19 - 8-Oct-1998 Safety Laboratories Department, SE Unit  
CREATED: 5-NOV-97 12:43:01  
PLOT PAGE 169 SHEET  
TA4599  
26

DR R: 10808 TO: TA4599 DATE: 970821 09:31:21  
199X DN-101 199X DN-101

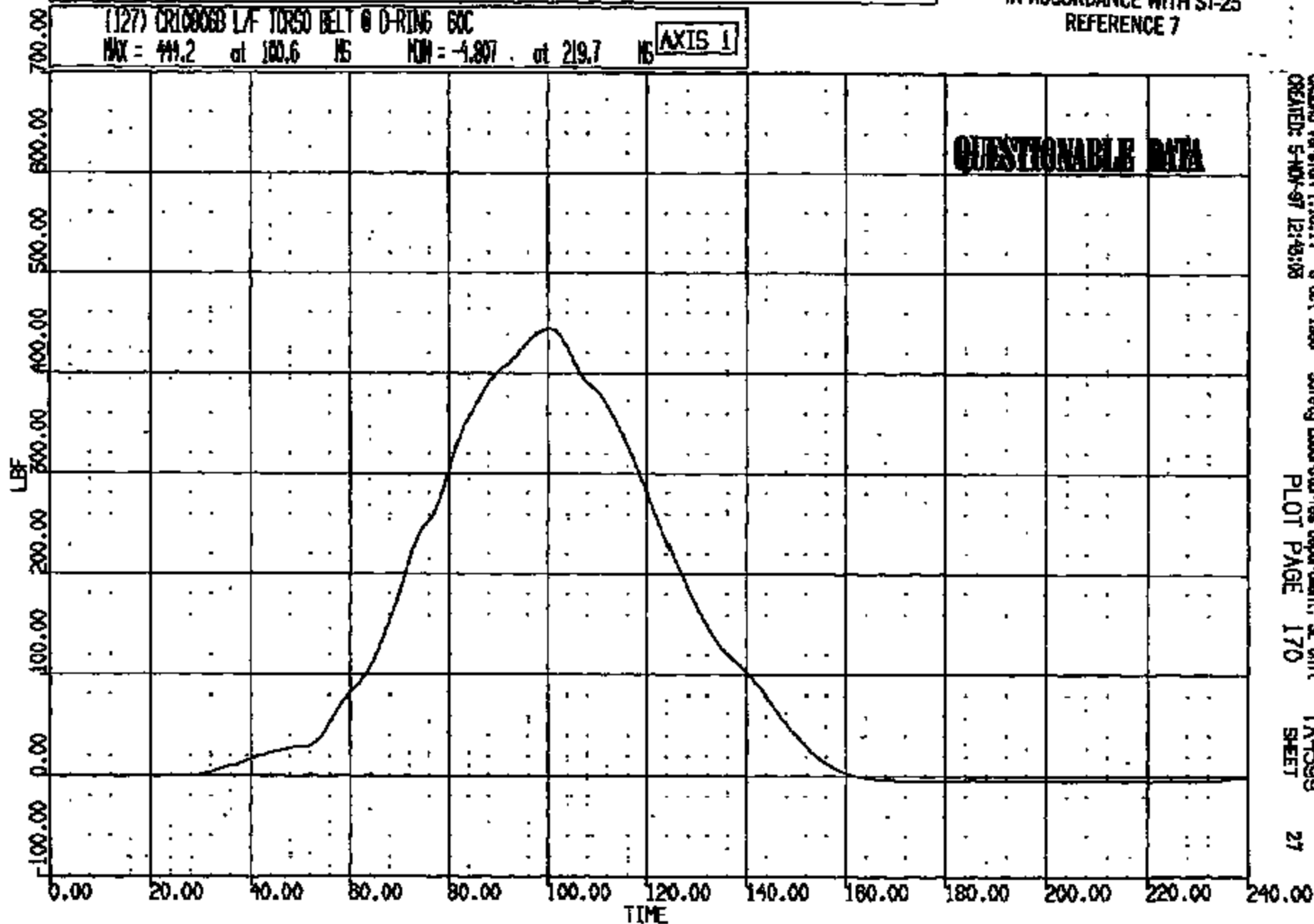
TIME-ZERO CORRECTED  
IN ACCORDANCE WITH ST-25  
REFERENCE 7

(127) CR100003 LAF TORSO BELT @ O-RING 60C

MAX = 441.2 at 100.6 MS MIN = -4.807 at 219.7 MS

AXIS 1

QUESTIONABLE DATA



CRS Version 1.16.14 - 8-21-1999  
CREATED: 5-MAY-97 12:45:03

8-21-1999

Safety Laboratories Department, SE Unit

PLOT PAGE 170

TA4599  
SHEET

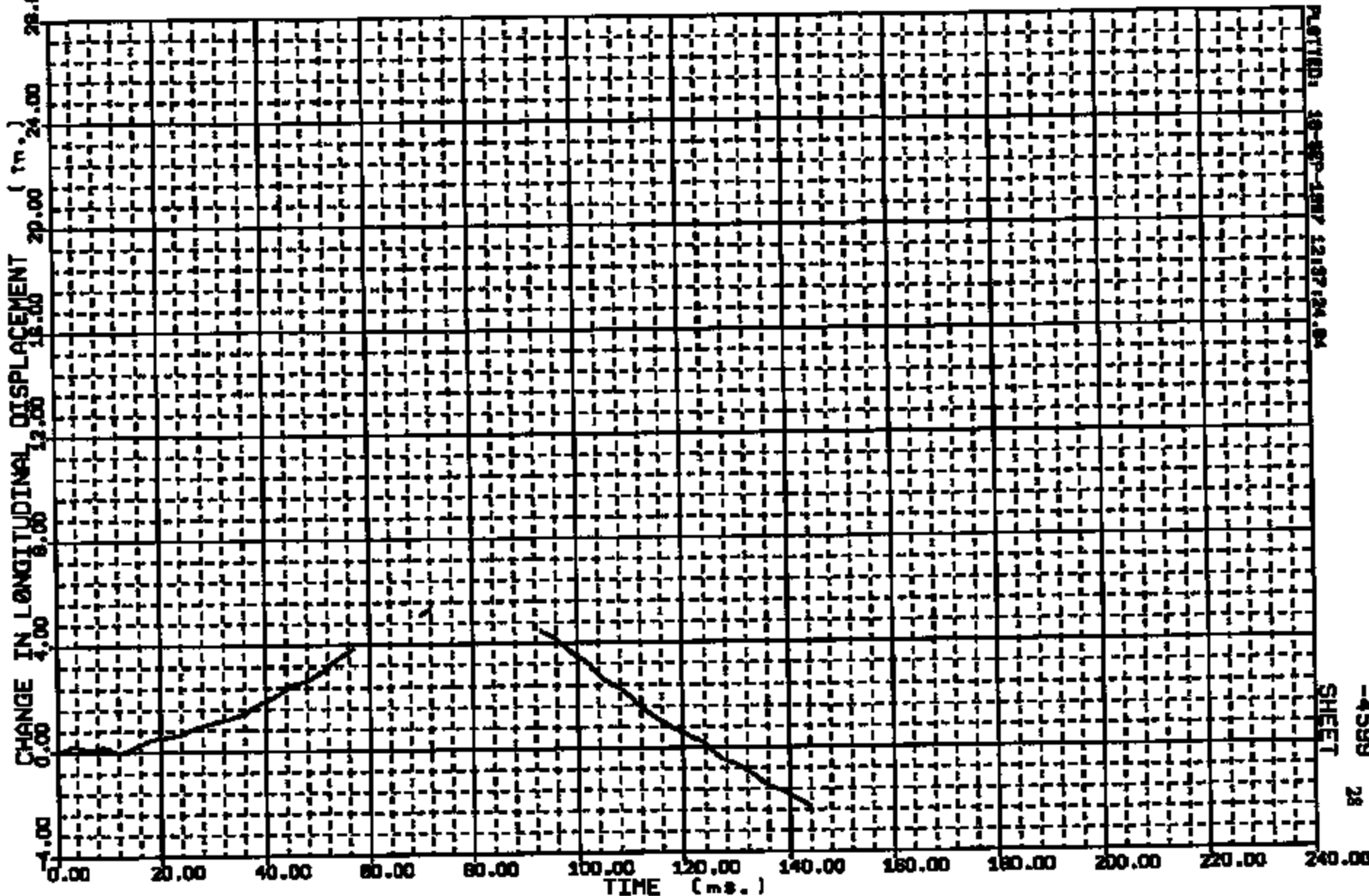
27

CRTS 0010806

Y - AXIS: L/S HEAD - DRIVER WRT L/ROCKER AT 8-PILLAR MAX = 3.948 at 72.00 MDN = -2.804 at 144.00

RUN NO.	FACILITY	TEST ORDER NO.	FILM ANALYSIS METHOD	PITCH CORRECTION
10806	BARRIER	-4599	SCALE	APPLIED

199X DN-101 INTO 199X TAURUS



CRIS 0010806

PLATED: 10-SEP-1987 12:57:24.04

SHEET

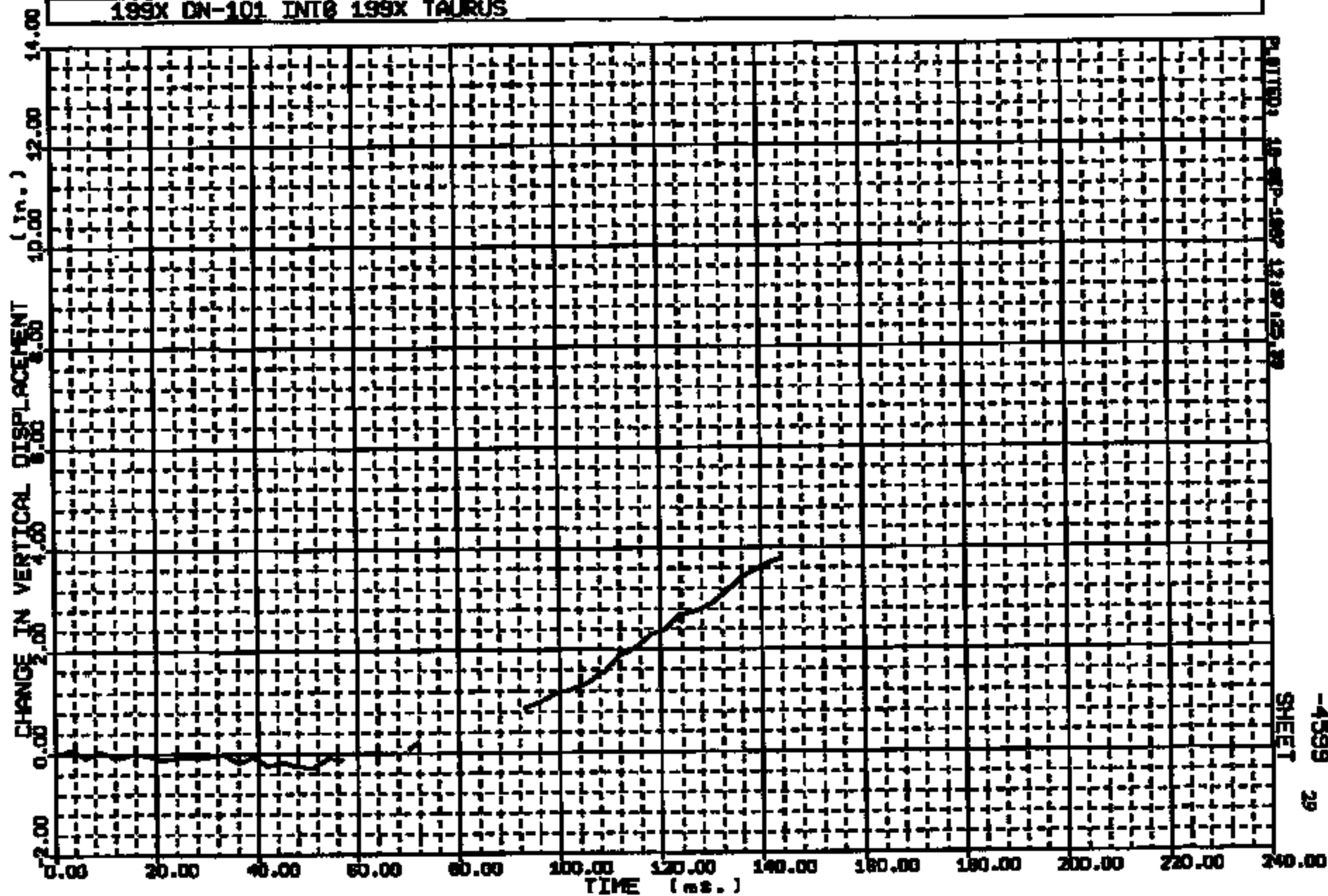
-4599 28



Y - AXIS: L/S HEAD - DRIVER NET LAUNCHER AT 9-PILLAR MAG = 3.782 at 144.00 MIN = -.2892 at 31.00

RUN NO.	FACILITY	TEST ORDER NO.	FILM ANALYSIS METHOD	PITCH CORRECTION
10806	BARRIER	-4599	SCALE	APPLIED

199X DN-101 INT@ 199X TAURUS



CRIS 0010806

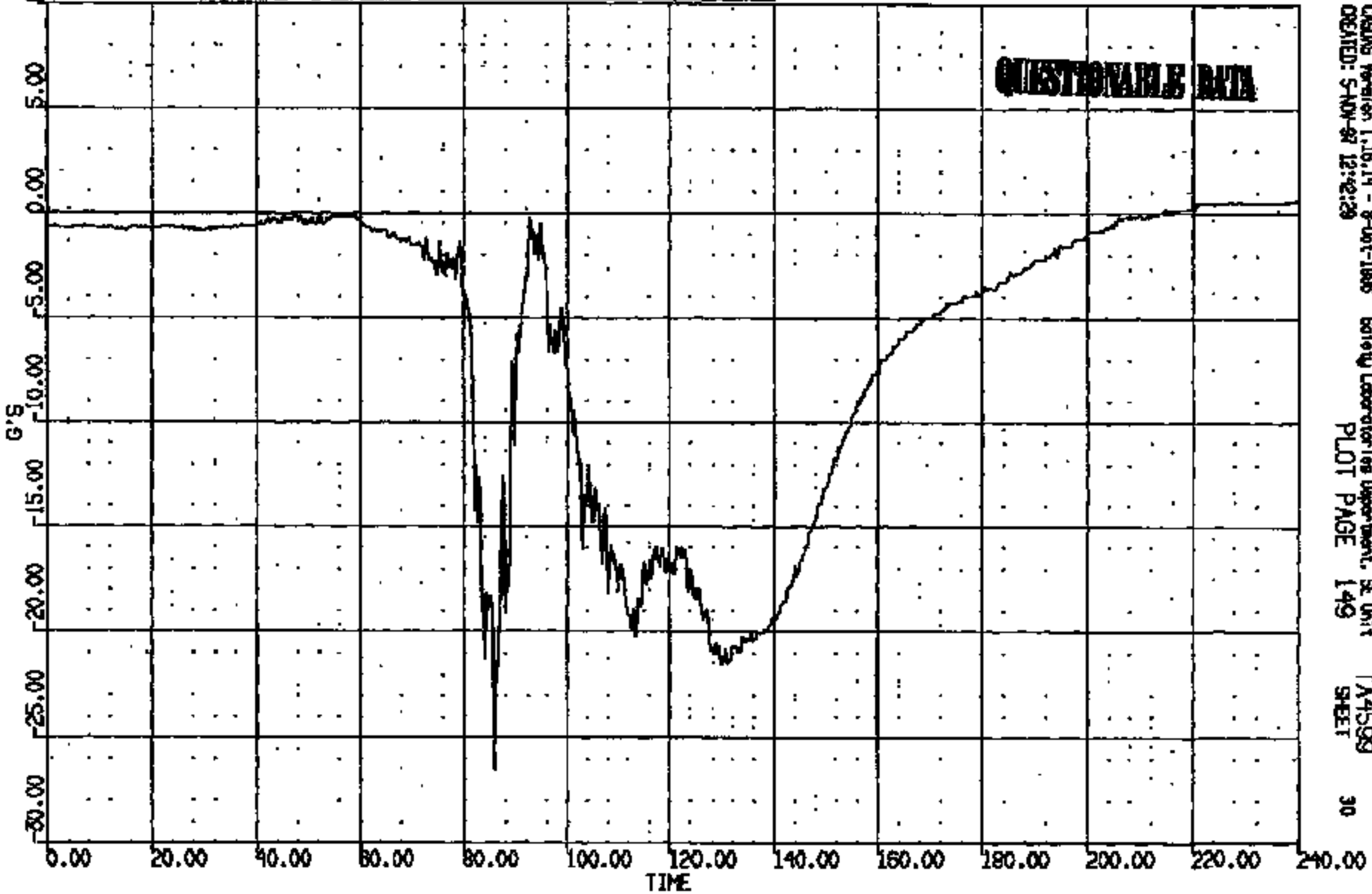
PLATE 16-SEP-1967 17:50:25 38

-4599  
SHEET 29

CR #: 10806 TO: TA4599 DATE: 970821 09:31:21  
199X DN-101 199X DN-101

TIME-ZERO CORRECTED  
IN ACCORDANCE WITH ST-25  
REFERENCE 7

(106) CR10806B R/F DUMMY HEAD C.G. LONG 1000C  
MAX = 0.7014 at 29.7 MS MIN = -26.47 at 85.92 MS **AXIS 1**

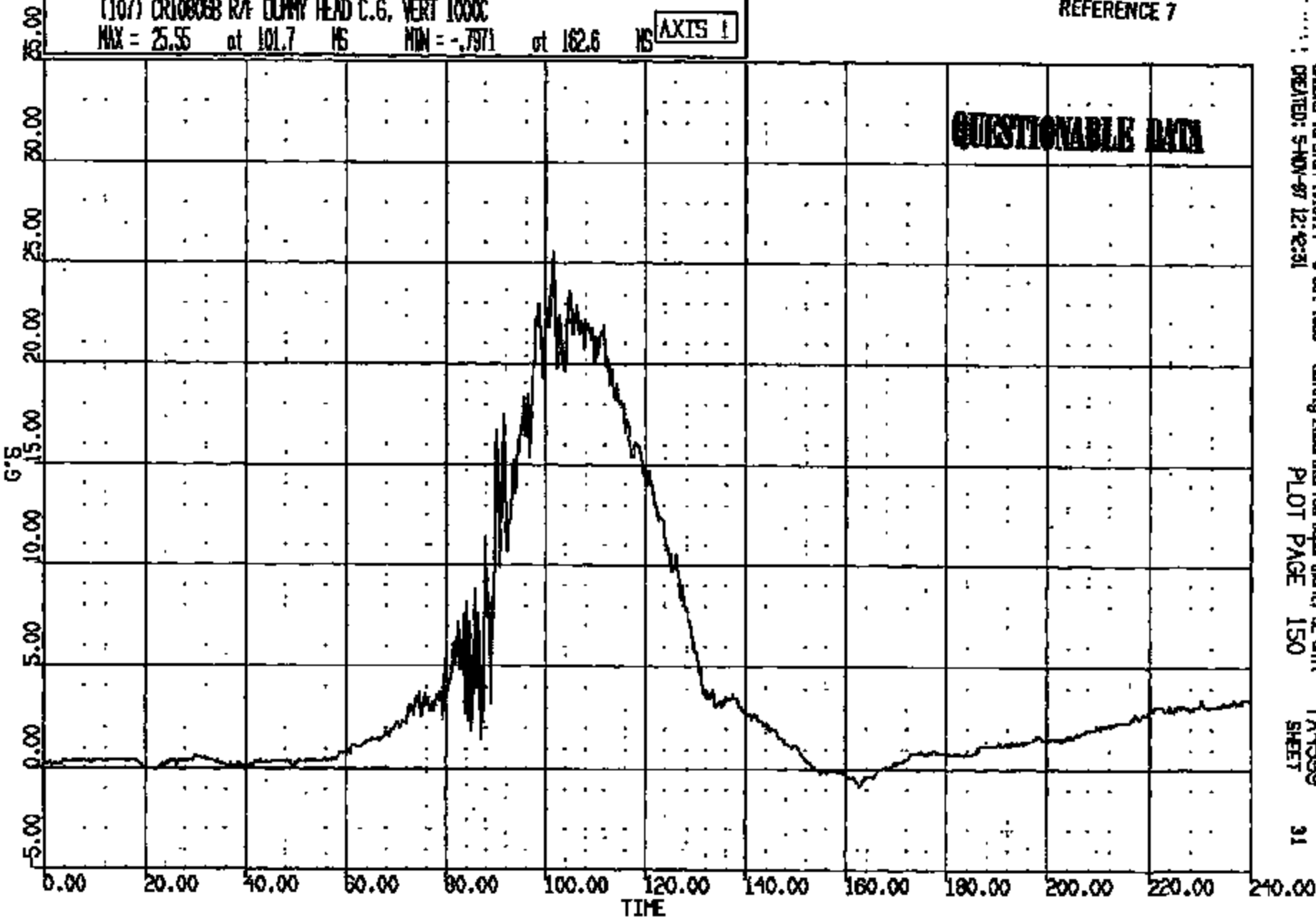


CASINS Version 1.16.14 - 9-Oct-1995 Safety Laboratories Department, SE Unit TA4599  
CREATED: 5-NOV-97 12:42:29 PLOT PAGE 149 SHEET 30

CR R: 10808 TD: TA4599 DATE: 870821 09:51:21  
199X DN-101 199X DN-101

TIME-ZERO CORRECTED  
IN ACCORDANCE WITH ST-25  
REFERENCE 7

(107) CR1000GB R/F DUMMY HEAD C.G. VERT 1000C  
MAX = 25.55 at 101.7 MS MIN = -.7971 at 162.6 MS AXTS 1



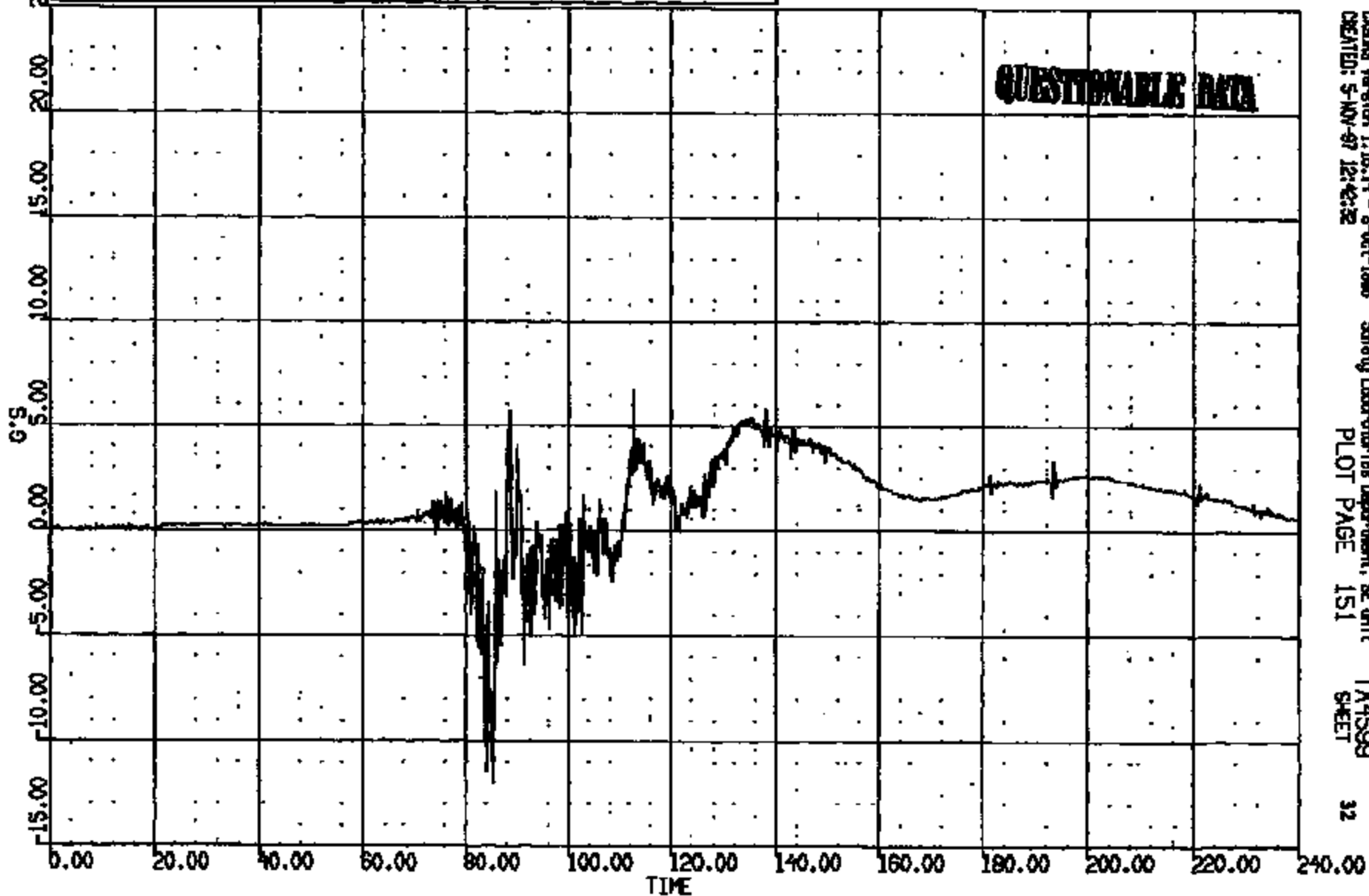
CRS005 Version 1.1/6.14 - 8-Oct-1988 Safety Laboratories Department, SE Unit TA4599  
CREATED: 5-NOV-87 12:42:31 PLOT PAGE 150 SHEET 31

CRTS 0010806

CR #: 10808 TD: TA4599 DATE: 970821 00:31:21  
189X DN-101 189X DN-101

TIME-ZERO CORRECTED  
IN ACCORDANCE WITH ST-25  
REFERENCE 7

(108) CR108068 R/F DUMMY HEAD C.G. LAT 1000C  
MAX = 6.679 at 112.8 MS MIN = -12.06 at 85.28 MS **AXIS 1**



CLIENT Version 1.15.14 - 8-Oct-1998  
CREATED: 5-NOV-97 12:42:32

Safety Laboratories Department, SE Unit

PLOT PAGE 151

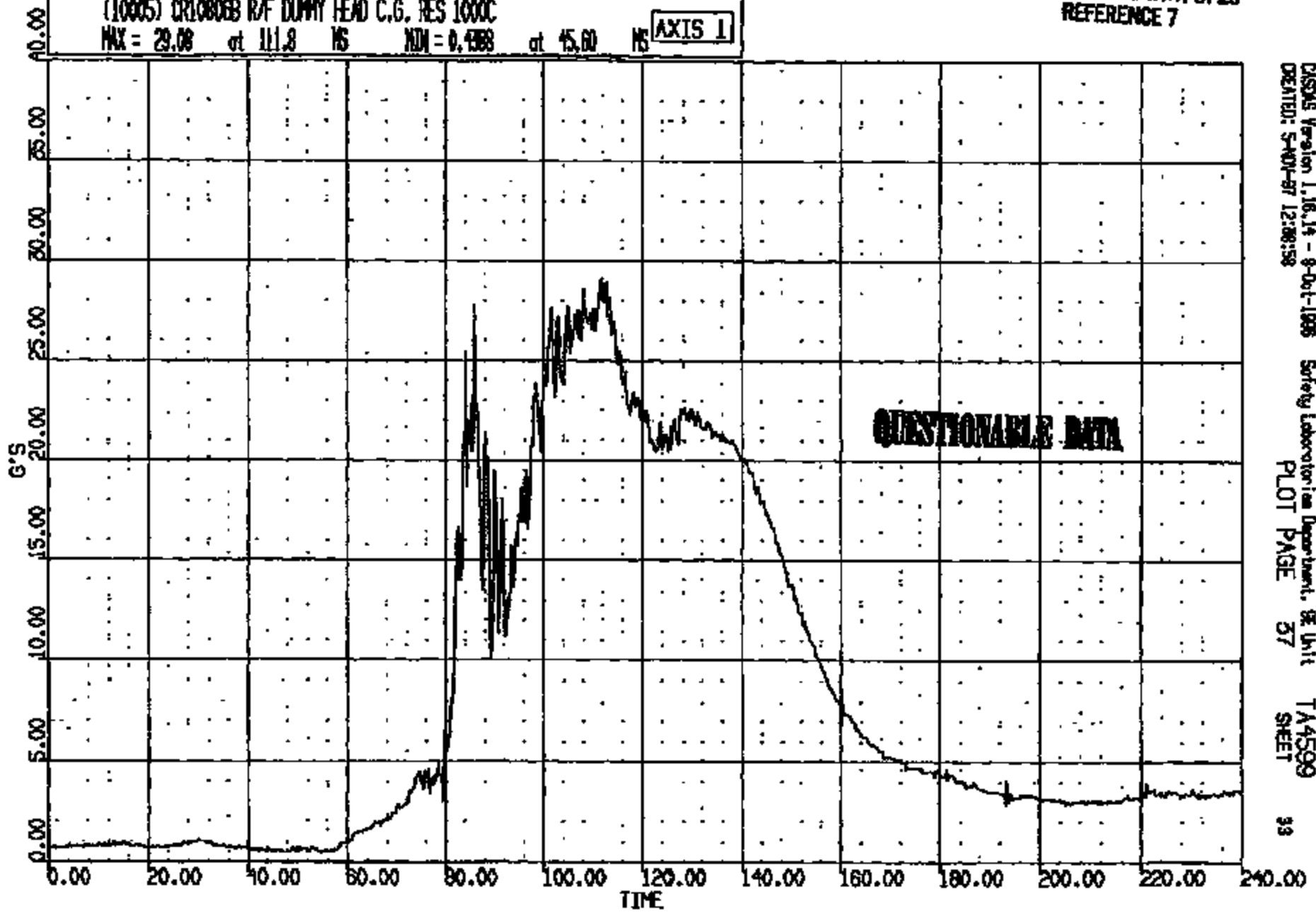
TA4599  
SHEET

32

CR : 10808 TO: TA4599 DATE: 970821 09:51:21  
 199X DN-101 199X DN-101  
 TIME: 140. DUR: 240.0 T1/T2: 81.8 // 151.  
 TIME: 101. DUR: 240.0 T1/T2: 87.8 // 137.  
 TIME: 95. DUR: 15.0 T1/T2: 101. // 110.

TIME-ZERO CORRECTED  
 IN ACCORDANCE WITH ST-25  
 REFERENCE 7

(10005) CR100058 R/F DUMMY HEAD C.G. RES 1000C  
 MAX = 29.08 at 111.8 MS MIN = 0.4388 at 45.00 MS **AXIS 1**



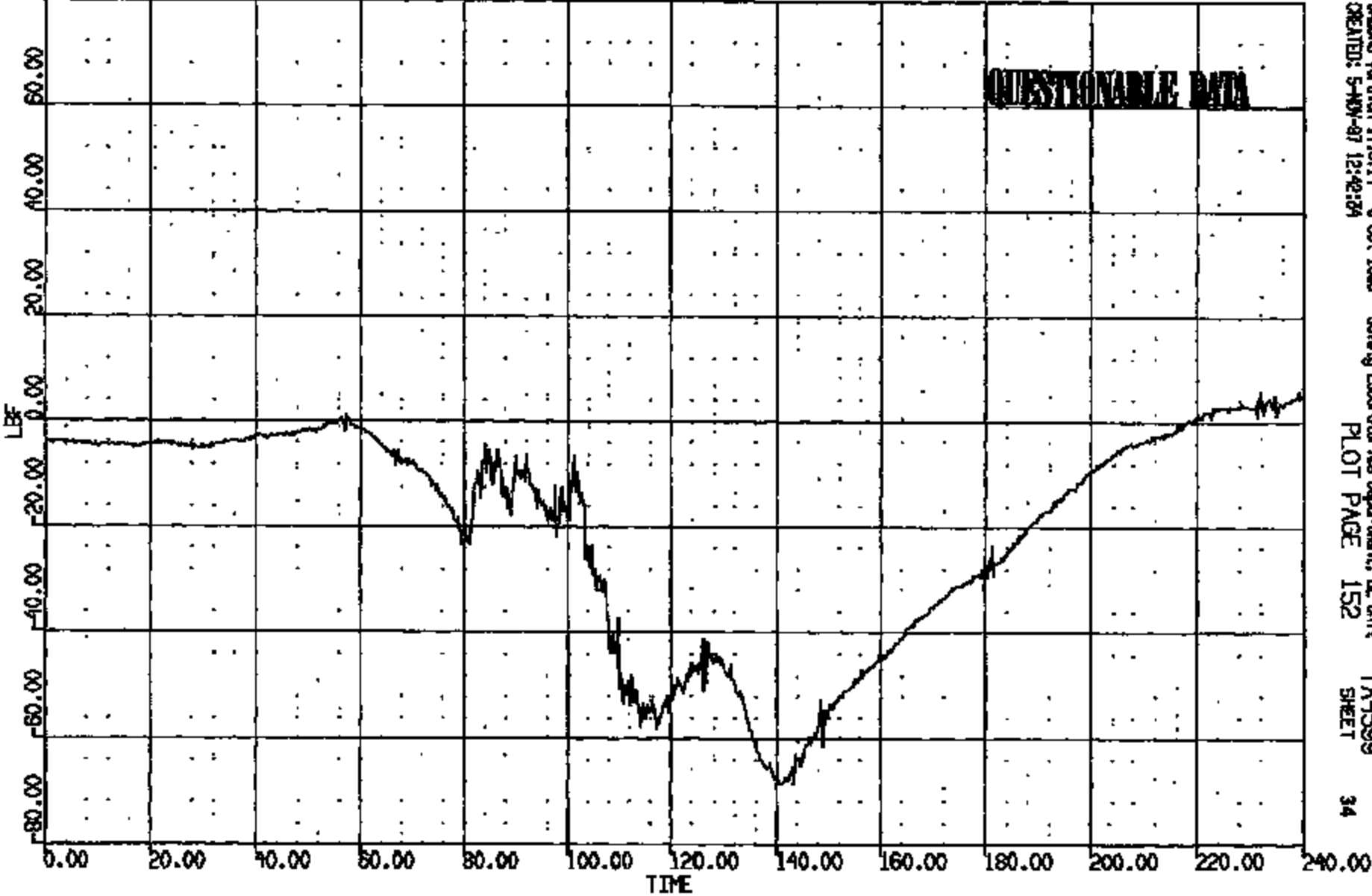
CDSAS Version 1.16.14 - 9-Oct-1989 Safety Laboratory Department, GE Unit TA4599  
 CREATED: 5-NOV-87 12:08:58 PLOT PAGE 57 SHEET 33

CR R: 10806 TO: TA4599 DATE: 970821 08:31:21  
199X DN-101 199X DN-101

TIME-ZERO CORRECTED  
IN ACCORDANCE WITH ST-25  
REFERENCE 7

(109) CRT08063 R/F DUMMY NECK UPPER LOAD FX 1000C  
MAX = 5.007 at 231.8 MS MIN = -68.63 at 141.0 MS **AXIS 1**

**QUESTIONABLE DATA**



CASUS Version 1.16.14 - 8-01-1995 Safety Laboratories Department, EE Unit  
CREATED: 5-MAY-97 12:42:24  
PLOT PAGE 152  
TA4599  
SHEET 34

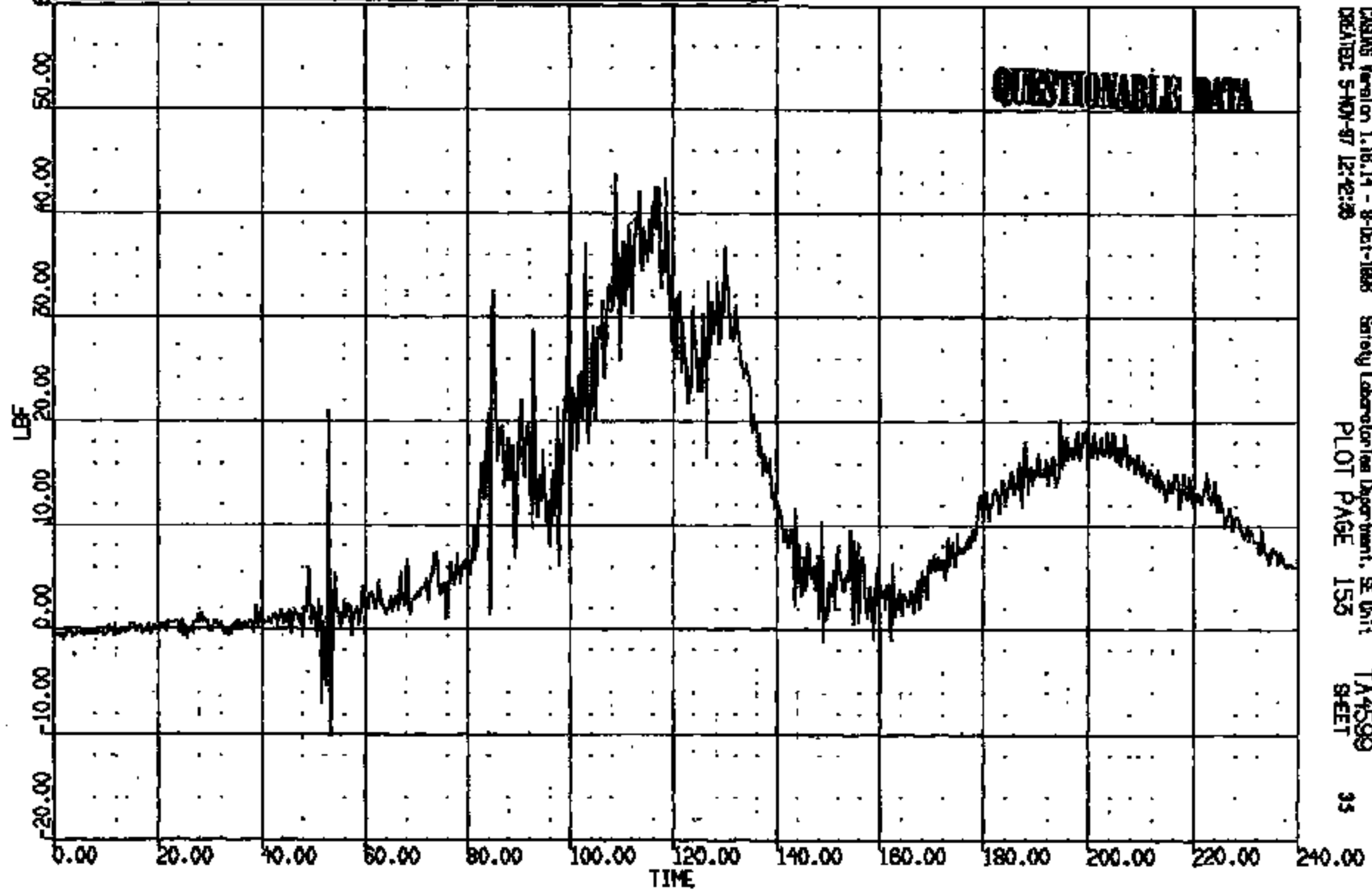
CRTS 0010806

CR #: 10808 TO: TA4599 DATE: 870821 09:51:21  
199X DN-101 199X DN-101

TIME-ZERO CORRECTED  
IN ACCORDANCE WITH SI-25  
REFERENCE 7

(110) CR10808B R/F DUMMY NECK UPPER LOAD FY 1000C  
MAX = 43.77 at 109.0 MS MIN = -10.18 at 53.28 MS **AXIS 1**

**QUESTIONABLE DATA**



CRSIS Version 1.16.14 - 8-Oct-1988 Safety Laboratories Department, SE Unit TA4599  
CREATED: 5-NOV-97 12:42:38 PLOT PAGE 155 SHEET 35

CRIS 0010806

CR R: 10806 TO: TA4599 DATE: 970921 09:51:21  
199X DN-101 199X DN-101

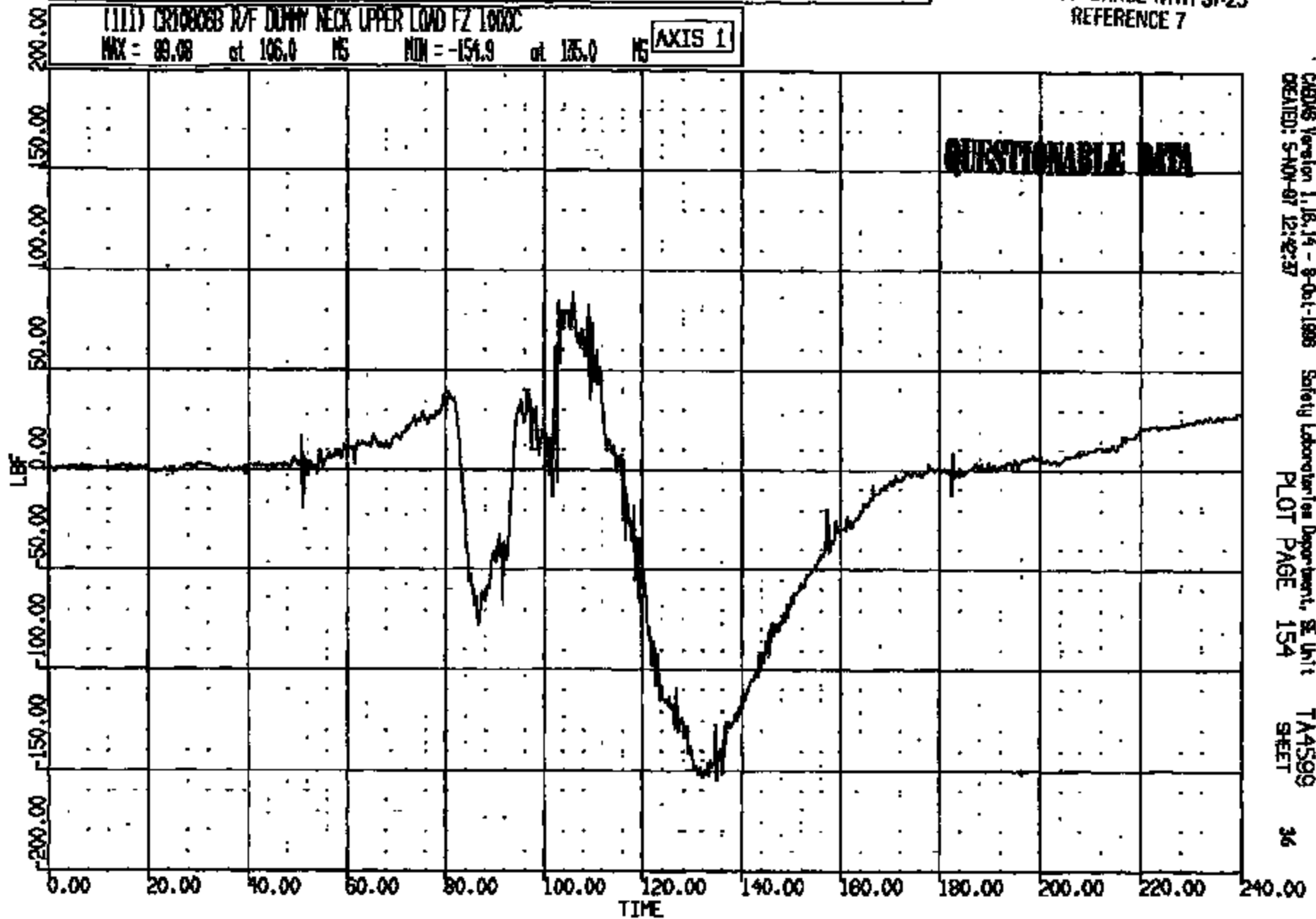
TIME-ZERO CORRECTED  
IN ACCORDANCE WITH ST-25  
REFERENCE 7

(111) CR108063 R/F DUMMY NECK UPPER LOAD FZ 1000C

MAX = 89.08 at 106.0 MS MIN = -154.9 at 135.0 MS

AXIS 1

QUESTIONABLE DATA



CRS Version 1.18.14 - 9-Oct-1998  
CREATED: 5-NOV-97 12:42:37

Safety Laboratories Department, SE Unit  
PLOT PAGE 154

TA4599  
SHEET

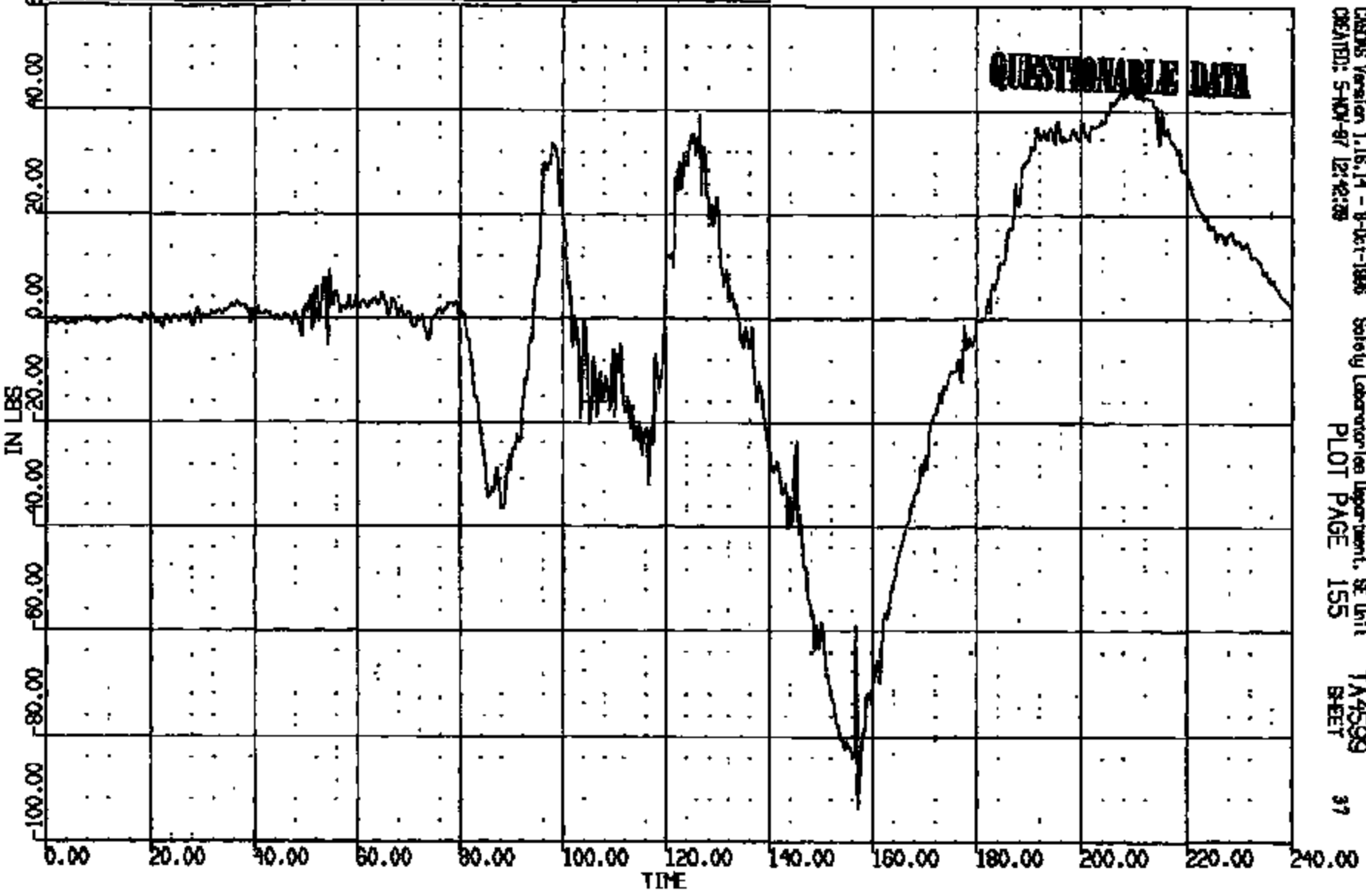
36



CR R: 10808 TO: TA4599 DATE: 870821 09:31:21  
199X DN-101 199X DN-101

TIME-ZERO CORRECTED  
IN ACCORDANCE WITH ST-25  
REFERENCE 7

(112) CR100068 R/F DUMMY NECK UPPER LOAD PK 600C  
MAX = 41.05 at 211.2 MG MIN = -93.59 at 157.2 MG **AXIS 1**



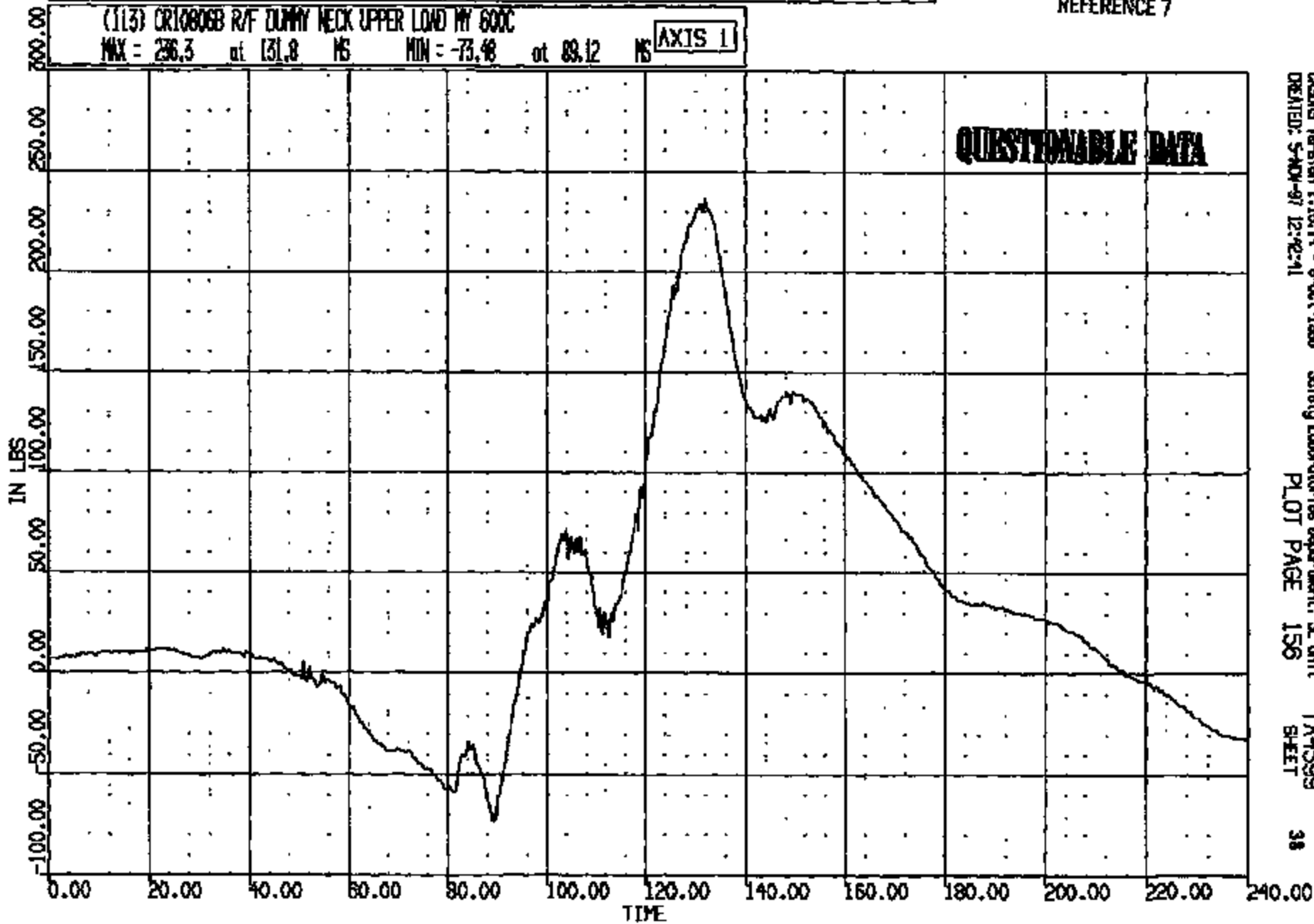
CARDIS Version 1.16.14 - 8-Oct-1986 Safety Laboratories Department, SE Unit TA4599  
CREATED: 5-MAY-97 12:42:38 PLOT PAGE 155 SHEET 37

CRTS 0010806

CR R: 10806 TO: TA4599 DATE: 870821 09:31:21  
199X DN-101 199X DN-101

TIME-ZERO CORRECTED  
IN ACCORDANCE WITH ST-25  
REFERENCE 7

(113) CR10806B R/F DUMMY NECK UPPER LOAD MY 600C  
MAX = 236.3 at 131.8 MS MIN = -73.48 at 88.12 MS **AXIS 1**



CRSNG Version 1.16.14 - 8-01-1988 Safety Laboratories Department, DE Unit  
CREATED: 5-NOV-97 12:42:41  
PLOT PAGE 156  
TA4599  
SHEET 38

CRIS 0010806

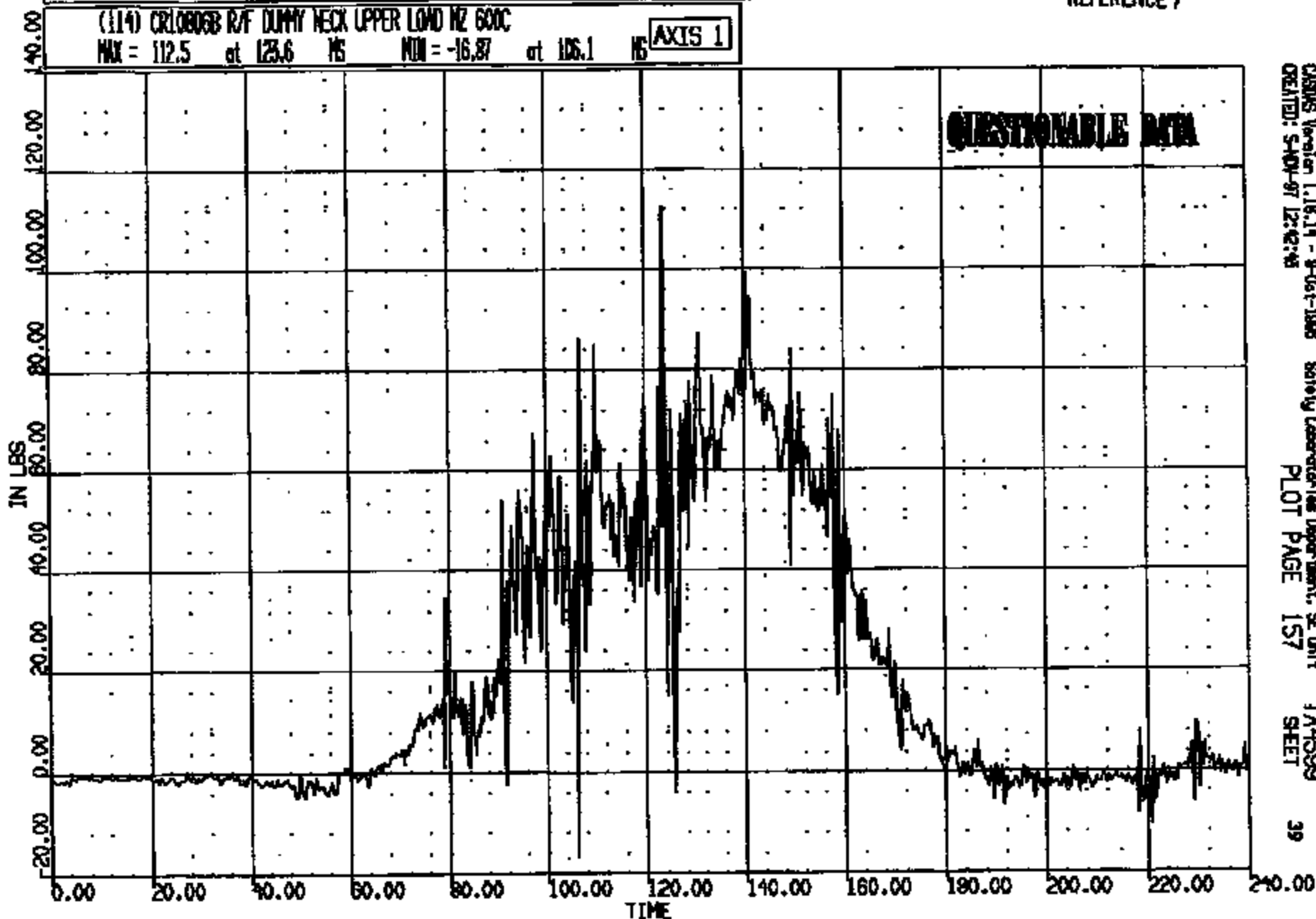
CR R: 10808 TO: TA4599 DATE: 970821 09:31:21  
199X DN-101 199X DN-101

TIME-ZERO CORRECTED  
IN ACCORDANCE WITH ST-25  
REFERENCE 7

(114) CR10808 R/F DUMMY NECK UPPER LOAD NZ 600C

MAX = 112.5 at 123.6 MS MIN = -16.87 at 106.1 MS

AXIS 1



CRASH Version 1.18.14 - 9-04-1998  
CREATED: 5-MAY-97 12:42:45

Safety Laboratories Department, SE Unit  
PLOT PAGE 157

TA4599  
SHEET

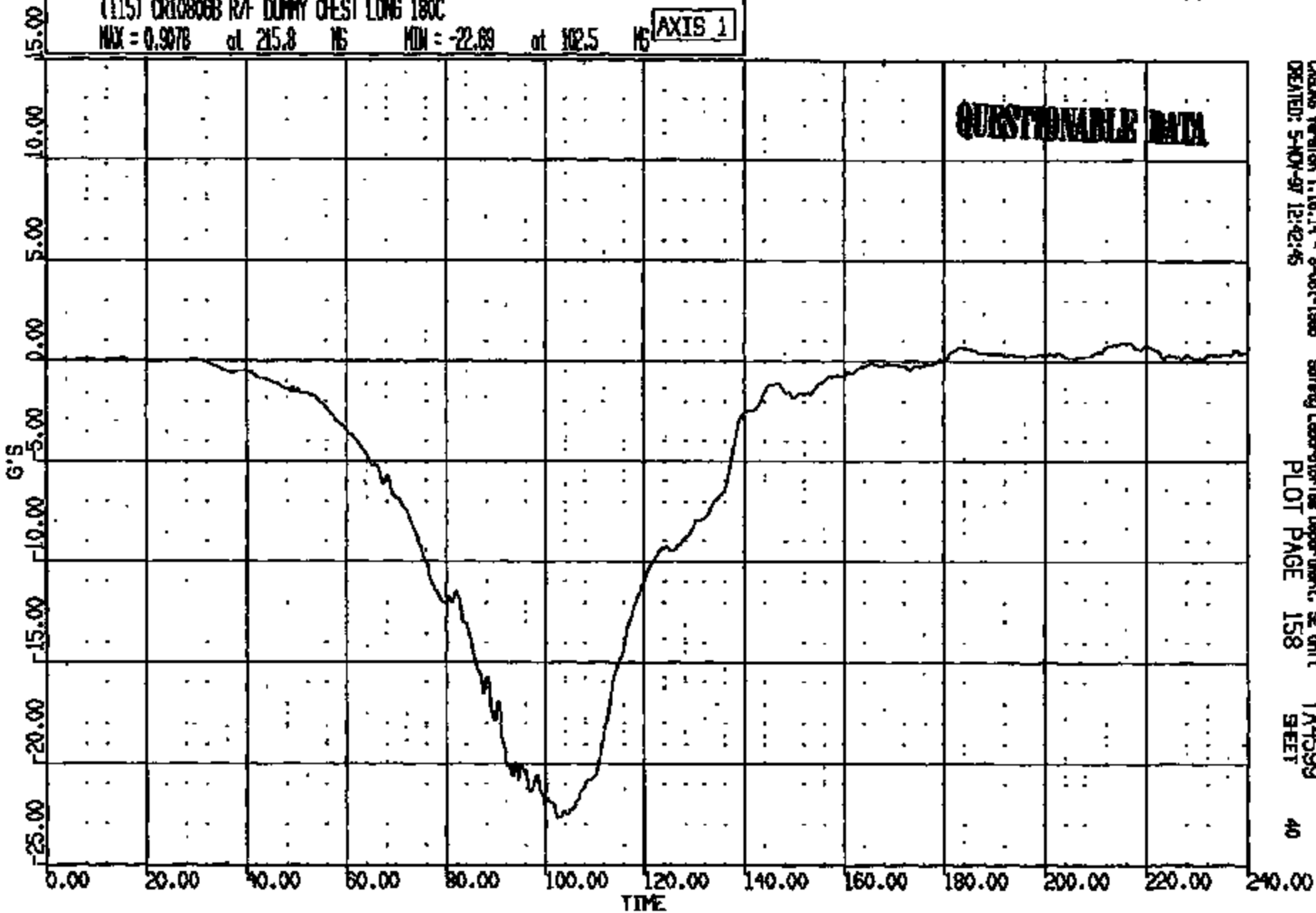
39

CRIS 0010806

CR R: 10806 TO: TA4599 DATE: 870821 09:31:21  
199X DN-101 199X DN-101

TIME-ZERO CORRECTED  
IN ACCORDANCE WITH ST-25  
REFERENCE 7

(15) CR10806B R/F DUMMY CHEST LONG 180C  
MAX = 0.9078 at 215.8 MS MIN = -22.89 at 102.5 MS **AXIS 1**



CASAS Version 1.18.14 - 9-Oct-1988 Safety Laboratories Department, SE Unit TA4599  
CREATED: 5-NOV-97 12:42:45 PLOT PAGE 158 SHEET 40

CRTS 0010806

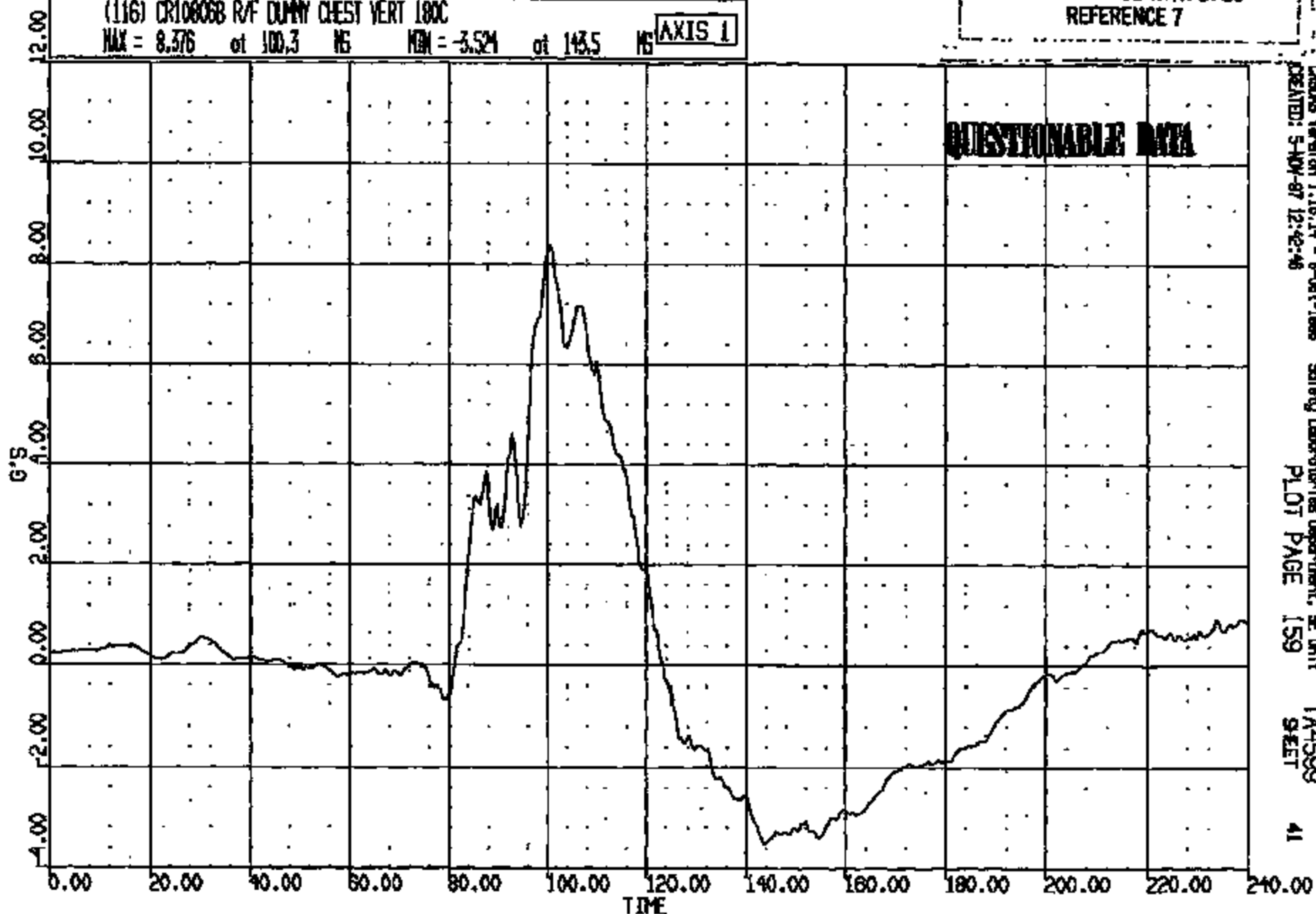
CR R: 10808 TO: TA4599 DATE: 970821 09:31:21  
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TIME-ZERO CORRECTED  
IN ACCORDANCE WITH ST-25  
REFERENCE 7

(116) CR10808B R/F DUMMY CHEST VERT 180C

MAX = 8.376 at 100.3 MS MIN = -3.524 at 143.5 MS **AXIS 1**

**QUESTIONABLE DATA**



CREATED: 5-NOV-97 12:42:46

Safety Laboratories Department, SE Unit

TA4599

PLOT PAGE 159

SHEET 41

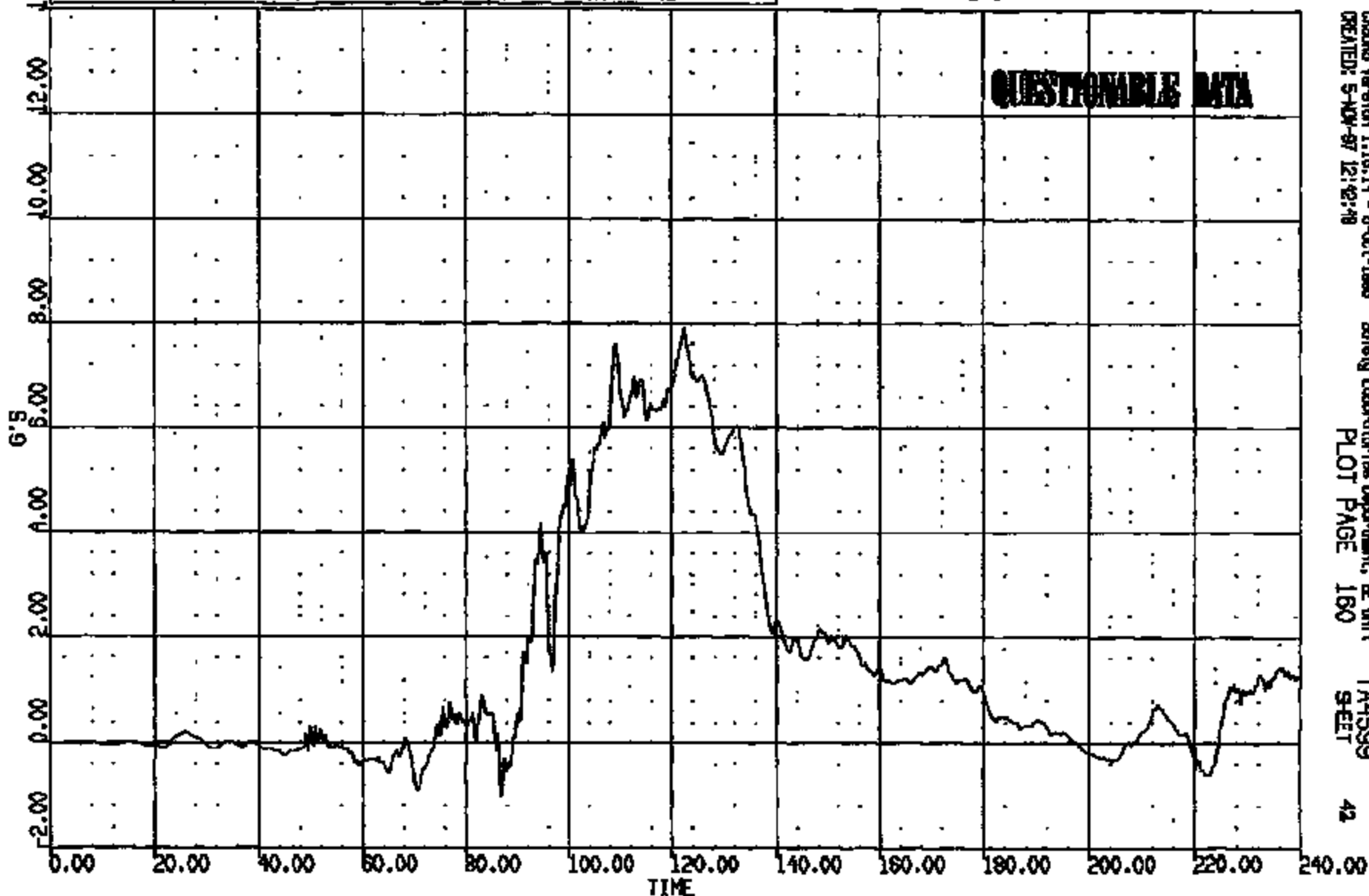
CR R: 10808 TO: TA4599 DATE: 870821 09:31:21  
100X DN-101 100X DN-101

TIME-ZERO CORRECTED  
IN ACCORDANCE WITH ST-25  
REFERENCE 7

(117) CR10008 R/F DUMMY CHEST LAT 180C

MAX = 7.912 at 122.6 MS MIN = -1.051 at 86.88 MS **AXIS 1**

**QUESTIONABLE DATA**



CASMS Version 1.16.14 - 8-Oct-1988  
CREATED: 5-NOV-87 12:42:48

Safety Laboratories Department, BE Unit  
PLOT PAGE 180

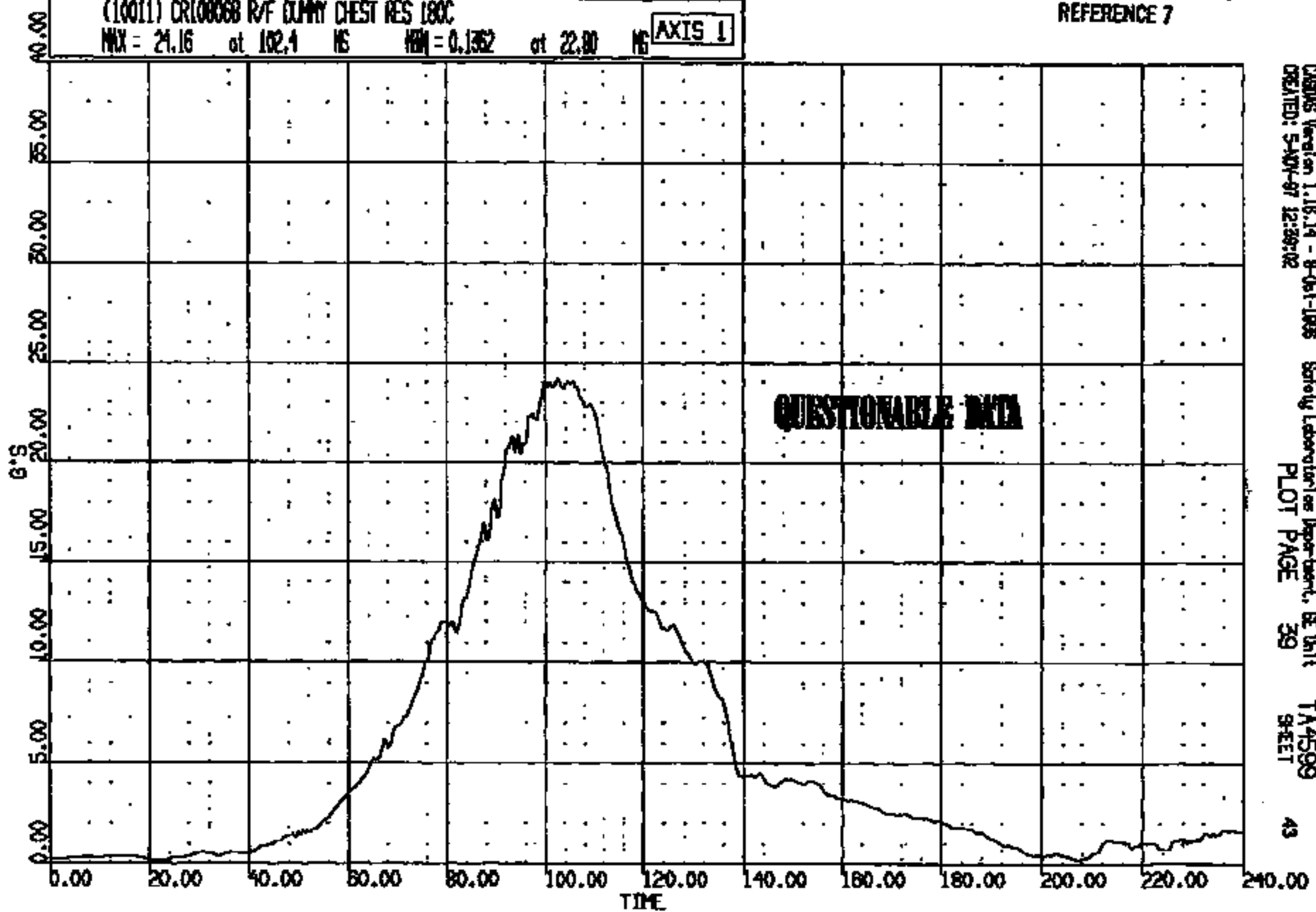
TA4599  
SHEET

42

CR R: 10808 TO: TA4599 DATE: 870821 09:51:21  
199X DN-101 199X DN-101  
CUMDUR = 25.942 Duration time = 2.0038

TIME-ZERO CORRECTED  
IN ACCORDANCE WITH ST-25  
REFERENCE 7

(10011) CR(00068) R/F DUMMY CHEST RES 180C  
MAX = 21.16 at 102.4 MS MIN = 0.1352 at 22.80 MS **AXIS 1**



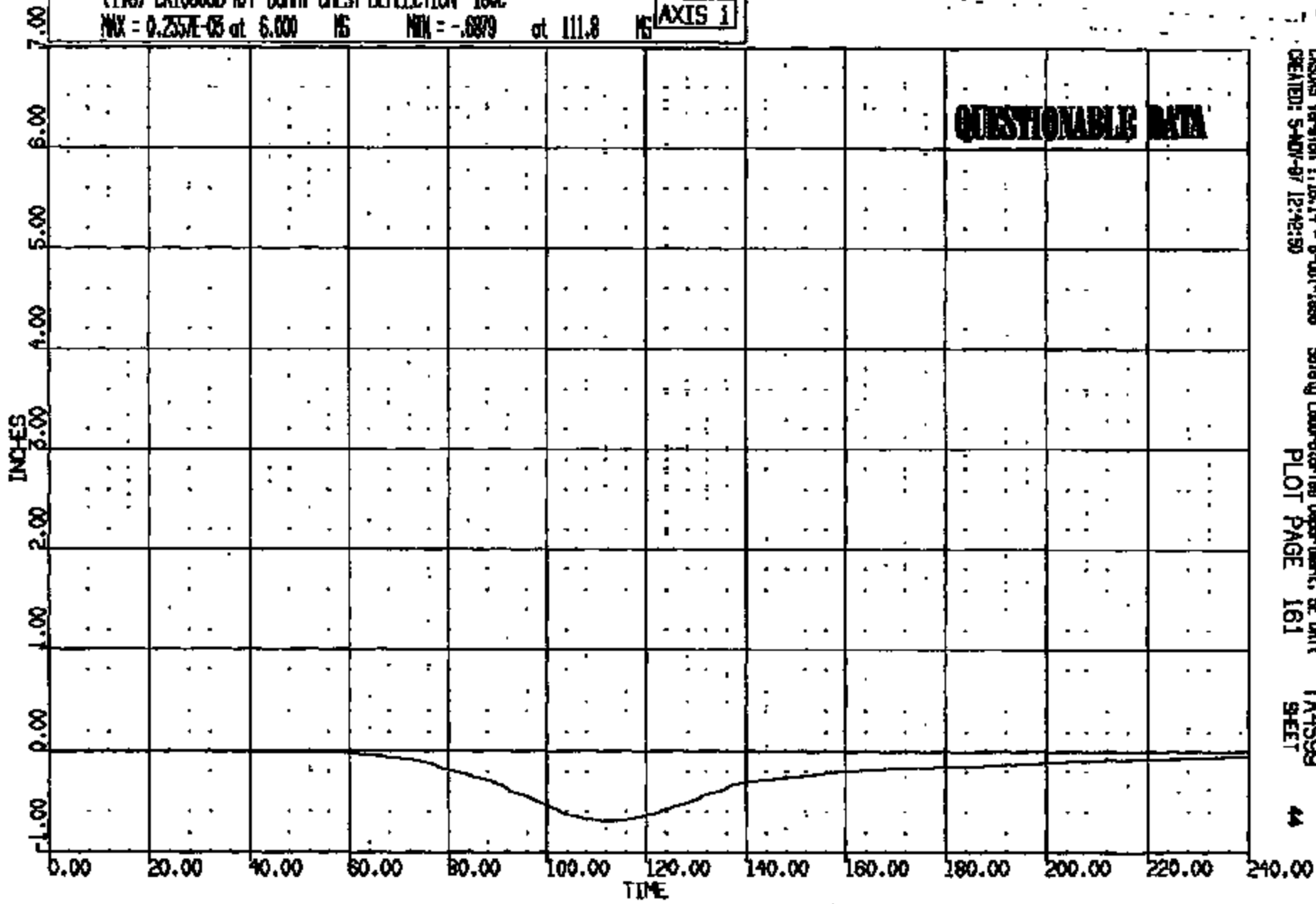
CASUS Version 1.18.14 - 8-Oct-1998 Safety Laboratories Department, EE Unit  
CREATED: 5-NOV-97 12:28:02  
PLOT PAGE 39 TA4599  
43 SHEET

UN 7: 10808 TO: TA4599 DATE: 970921 08:31:21  
199X DN-101 199X DN-101

TIME-ZERO CORRECTED  
IN ACCORDANCE WITH ST-25  
REFERENCE 7

(118) CR108063 R/F DUMMY CHEST DEFLECTION 180C  
MAX = 0.2557E-05 at 6.000 MS MIN = -.0879 at 111.8 MS **AXIS 1**

**QUESTIONABLE DATA**



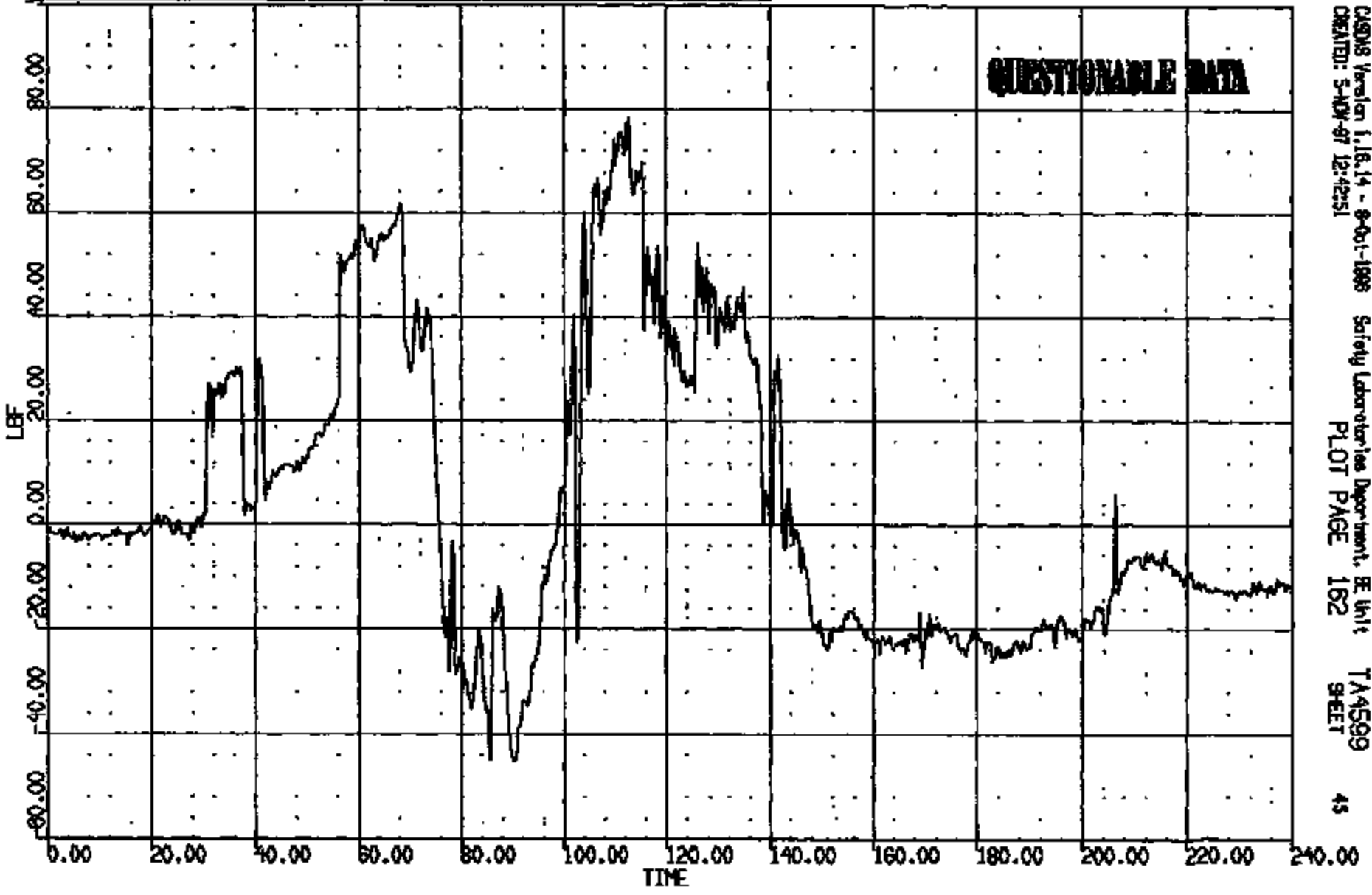
CRS019 Version 1:16:14 - 8-Oct-1989 Safety Laboratory Department, SE Unit  
CREATED: 5-NOV-97 12:42:50 PLOT PAGE 161 TA4599  
SHEET 44



CR #: 10806 TO: TA4599 DATE: 970821 09:31:21  
199X DN-101 199X DN-101

TIME-ZERO CORRECTED  
IN ACCORDANCE WITH ST-25  
REFERENCE 7

(119) CR108068 R/F DUMMY LATERAL LOAD FZ 600C  
MAX = 78.08 at 112.7 MS MIN = -45.27 at 90.48 MS **AXIS 1**



CR108 Version 1.16.14 - 8-01-1999 Safety Laboratories Department, E. Unit  
CREATED: 5-NOV-97 12:42:51 PLOT PAGE 162 TA4599 SHEET 45

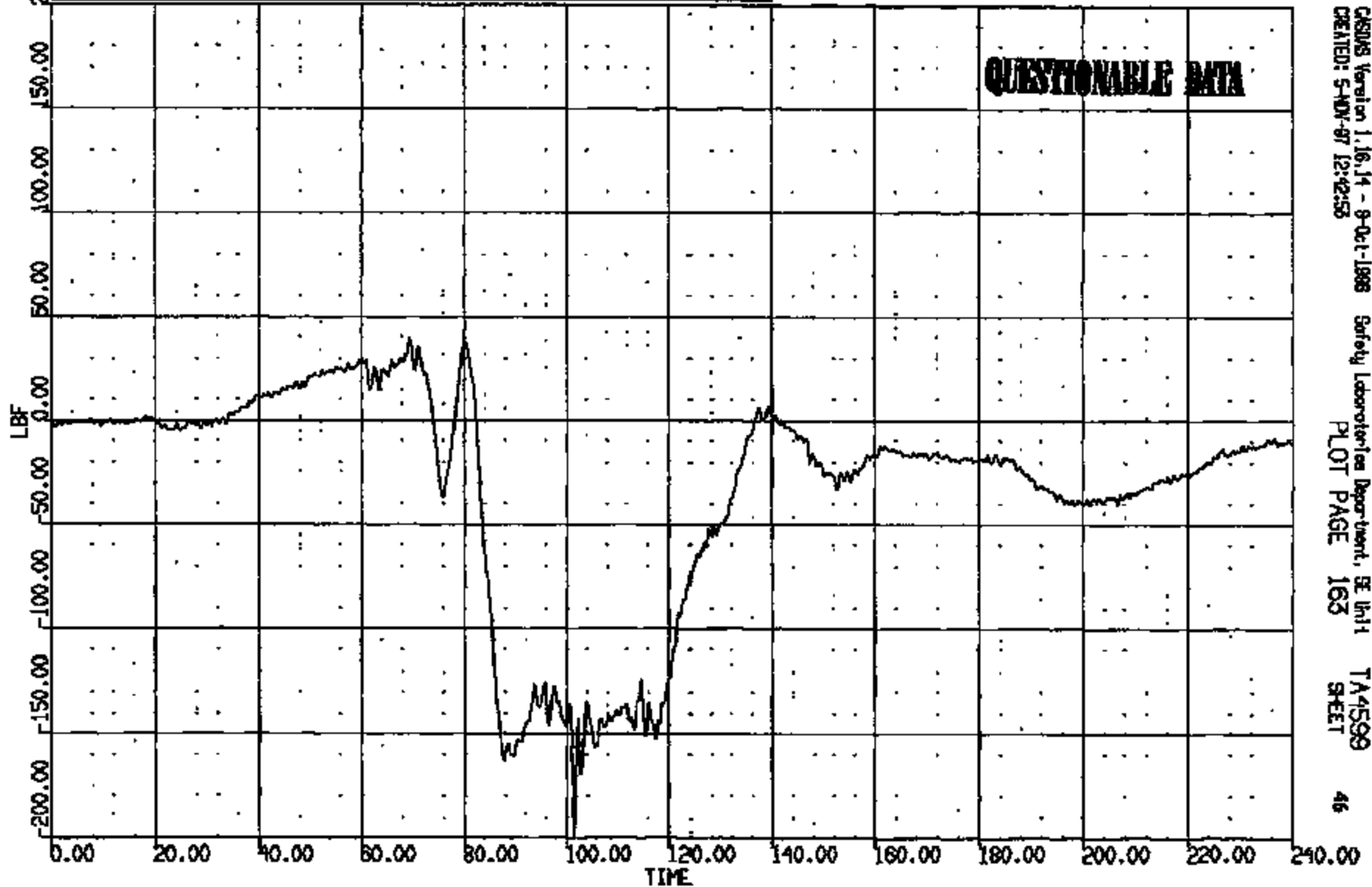
CR108 0010806

CR R: 10806 TO: TA4599 DATE: 870821 09:51:21  
198X DN-101 198X DN-101

TIME-ZERO CORRECTED  
IN ACCORDANCE WITH SI-25  
REFERENCE 7

(120) CR10806B R/F DUMMY R/FENR LOAD FZ 600C  
MAX = 39.40 at 68.44 MS MIN = -198.7 at 101.4 MS **AXIS 1**

**QUESTIONABLE DATA**



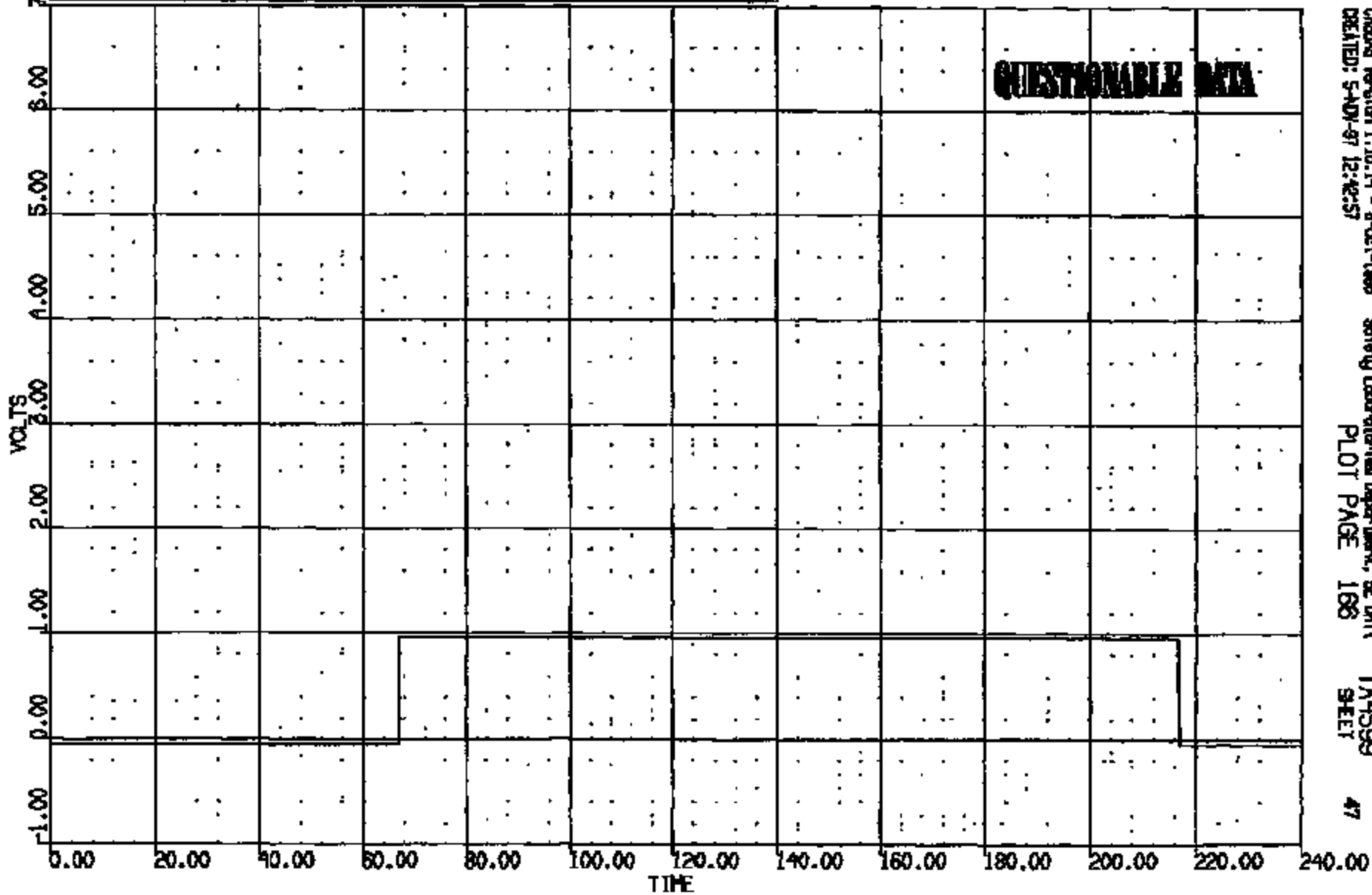
CASUS Version 1.16.14 - 8-01-1988 Safety Laboratories Department, SE Unit  
CREATED: 5-NOV-87 12:42:53  
PLOT PAGE 163  
TA4599  
SHEET 46

CR 1: 10806 TO: TA4599 DATE: 970821 09:31:21  
100X DN-101 100X DN-101

TIME-ZERO CORRECTED  
IN ACCORDANCE WITH ST-25  
REFERENCE 7

(123) CR108068 R/F DUMMY L/FENUR SH 400C  
MAX = 0.9570 at 67.00 NS MIN = -.4395E-01 at -.7628E-05 NS **AXIS 1**

**QUESTIONABLE DATA**



CRS04 Version 1.18.14 - 8-01-1999 Safety Laboratories Department, SE Unit  
CREATED: 5-ADJ-97 12:42:57 PLOT PAGE 186 TA4599 SHEET 47

CR #: 10808 TO: TA4599 DATE: 870821 08:51:21  
199X DN-101 199X DN-101

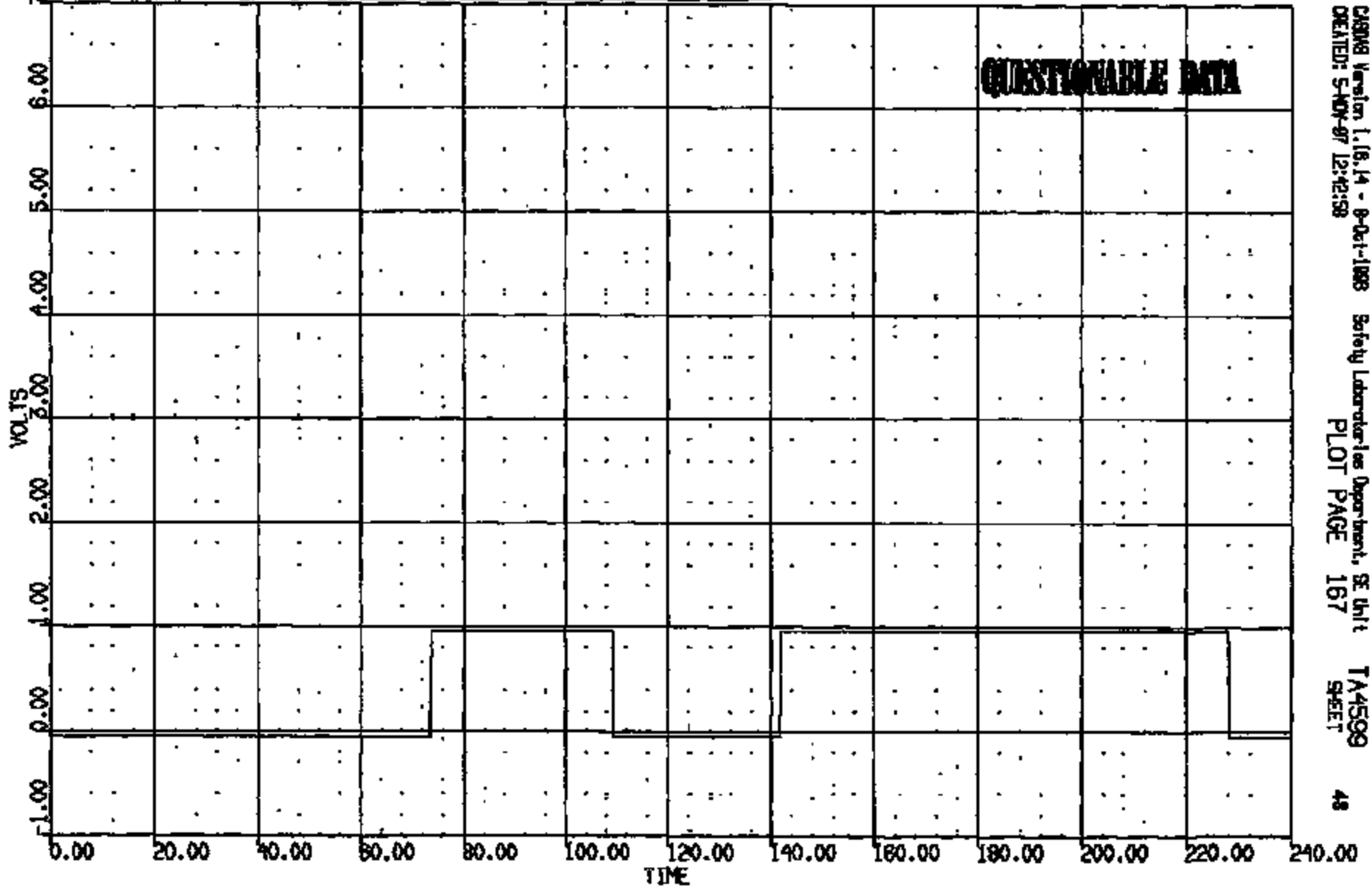
TIME-ZERO CORRECTED  
IN ACCORDANCE WITH ST-25  
REFERENCE 7

(124) CR10808 R/F DUMMY REFERR SM 4000C

MAX = 0.9570 at 73.80 NS MIN = -.4895E-01 at -.7629E-05 NS

AXIS 1

QUESTIONABLE DATA



CR10808 Version 1.16.14 - 8-01-1988  
CREATED: 5-NOV-87 12:42:58

Safety Laboratories Department, SE Unit  
PLOT PAGE 167

TA4599  
SHEET

48

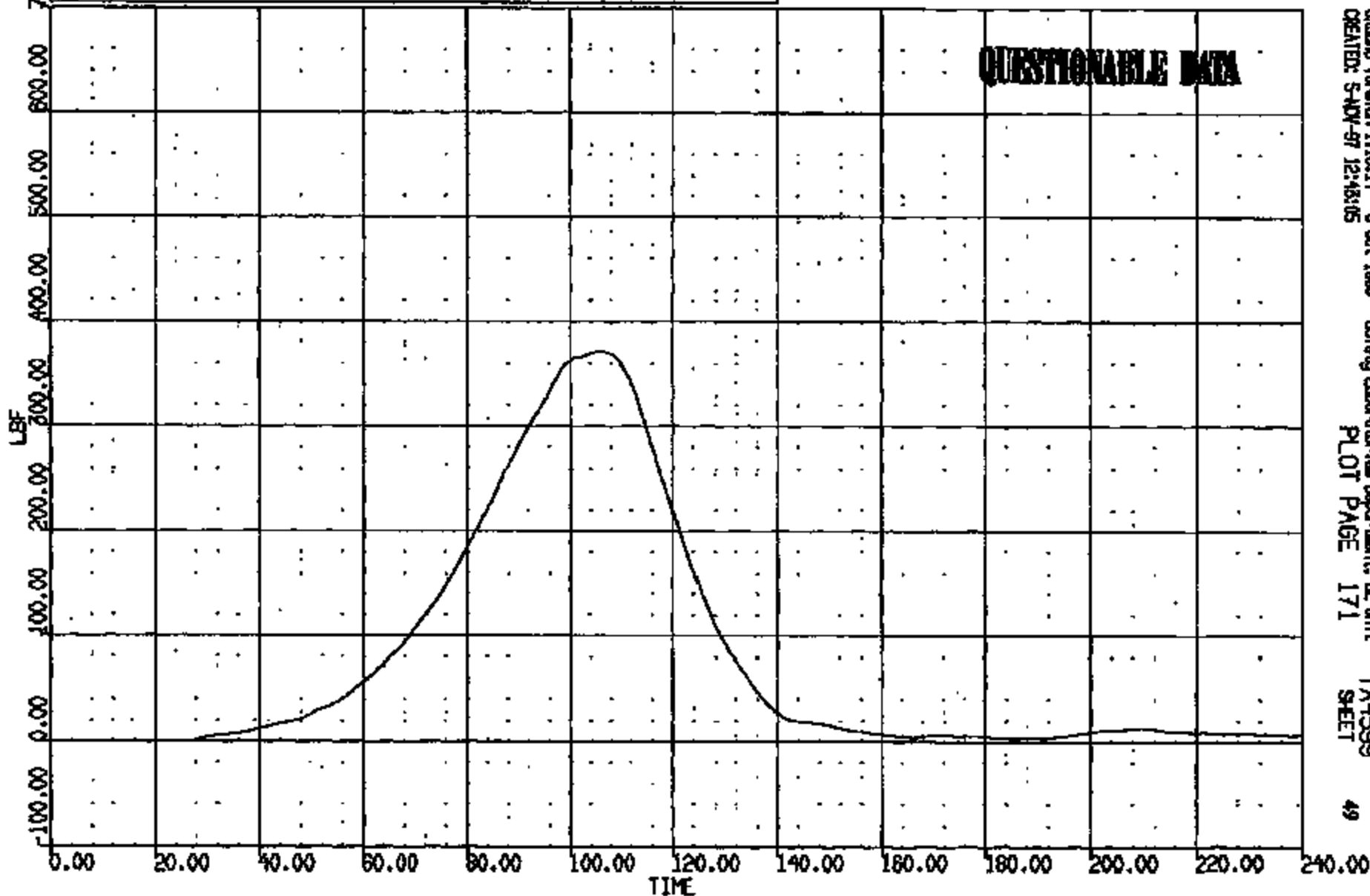
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199X DN-101 199X DN-101

TIME-ZERO CORRECTED  
IN ACCORDANCE WITH ST-25  
REFERENCE 7

(128) CR10806B R/F LAP BELT @ ANCHOR 60C

MAX = 371.4 at 105.7 MS MIN = -.4093 at 18.36 MS **AXIS 1**

**QUESTIONABLE DATA**



CHADS Version 1.18.14 - 8-Oct-1988  
CREATED: SANDY-97 12:43:05

Safety Laboratories Department, SE Unit  
PLOT PAGE 171

TA4599  
SHEET

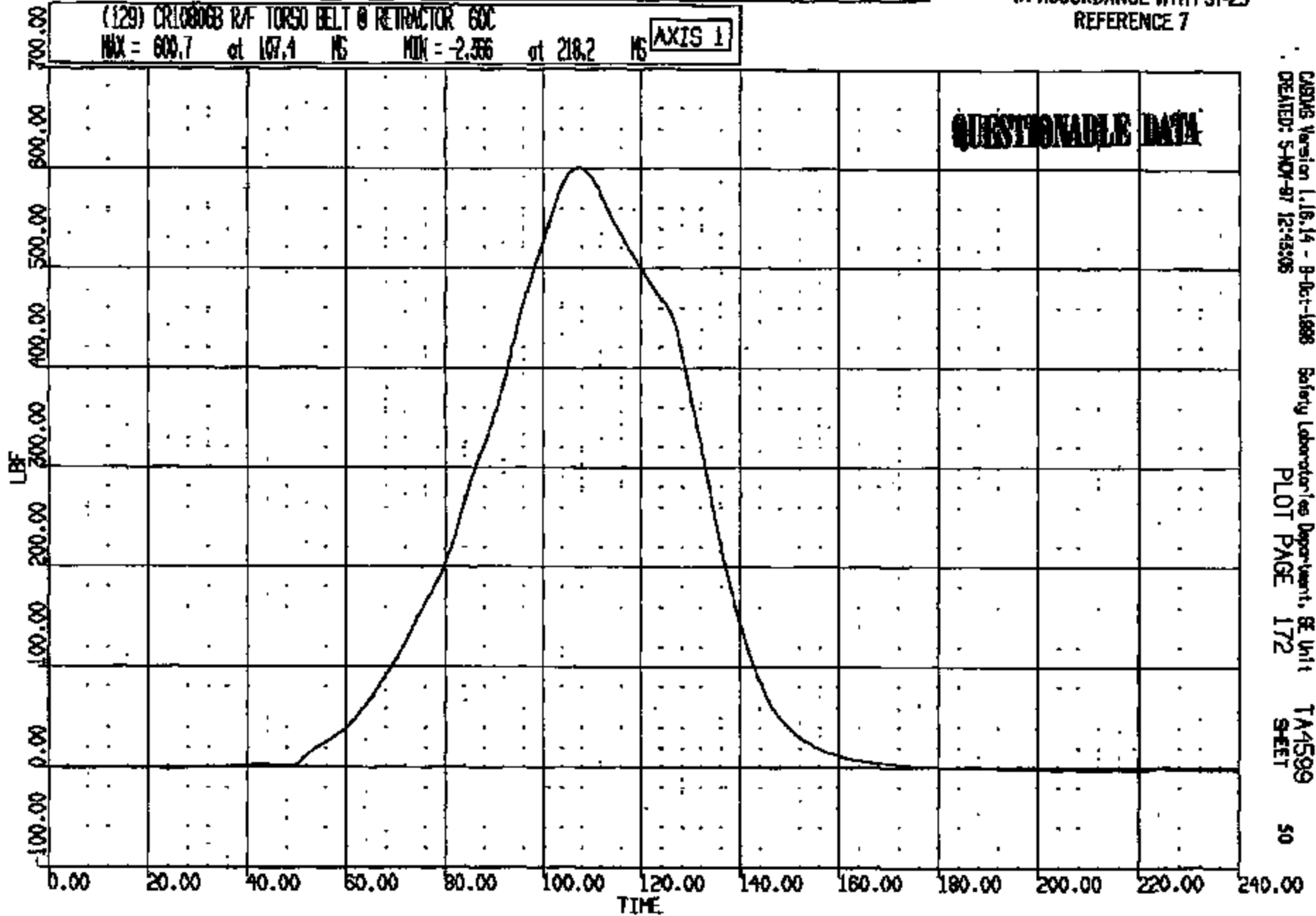
49

CR R: 10806 TO: TA4599 DATE: 970821 09:31:21  
189X DN-101 189X DN-101

TIME-ZERO CORRECTED  
IN ACCORDANCE WITH ST-25  
REFERENCE 7

(129) CR108068 R/F TORSO BELT @ RETRACTOR 60C  
MAX = 600.7 at 107.4 MS MIN = -2.356 at 218.2 MS **AXIS 1**

**QUESTIONABLE DATA**



CASMS Version 1.18.14 - B-06-1-1888  
CREATED: S-MOV-97 12:42:05

Safety Laboratories Department, BE Unit  
PLOT PAGE 172

TA4599  
SHEET

50

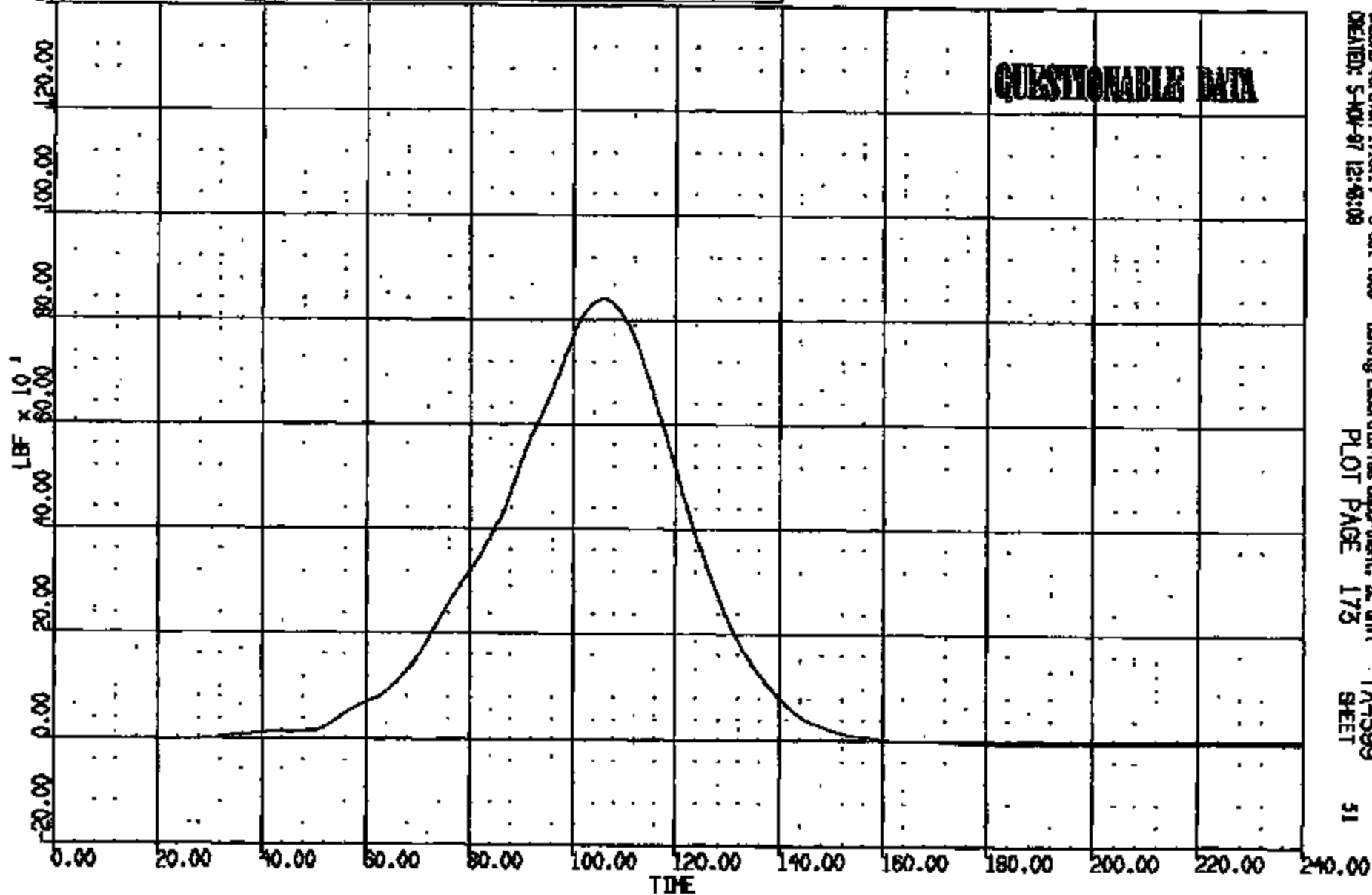
CRIS 0010806

CR R: 10808 TO: TA4599 DATE: 870821 09:51:21  
189X DN-101 189X DN-101

TIME-ZERO CORRECTED  
IN ACCORDANCE WITH ST-25  
REFERENCE 7

(130) CR10808B R/T TORSO BELT @ O-RING BOC  
MAX = 89.3 at 105.8 MS MIN = -1.82 at 135.3 MS **AXIS 1**

**QUESTIONABLE DATA**



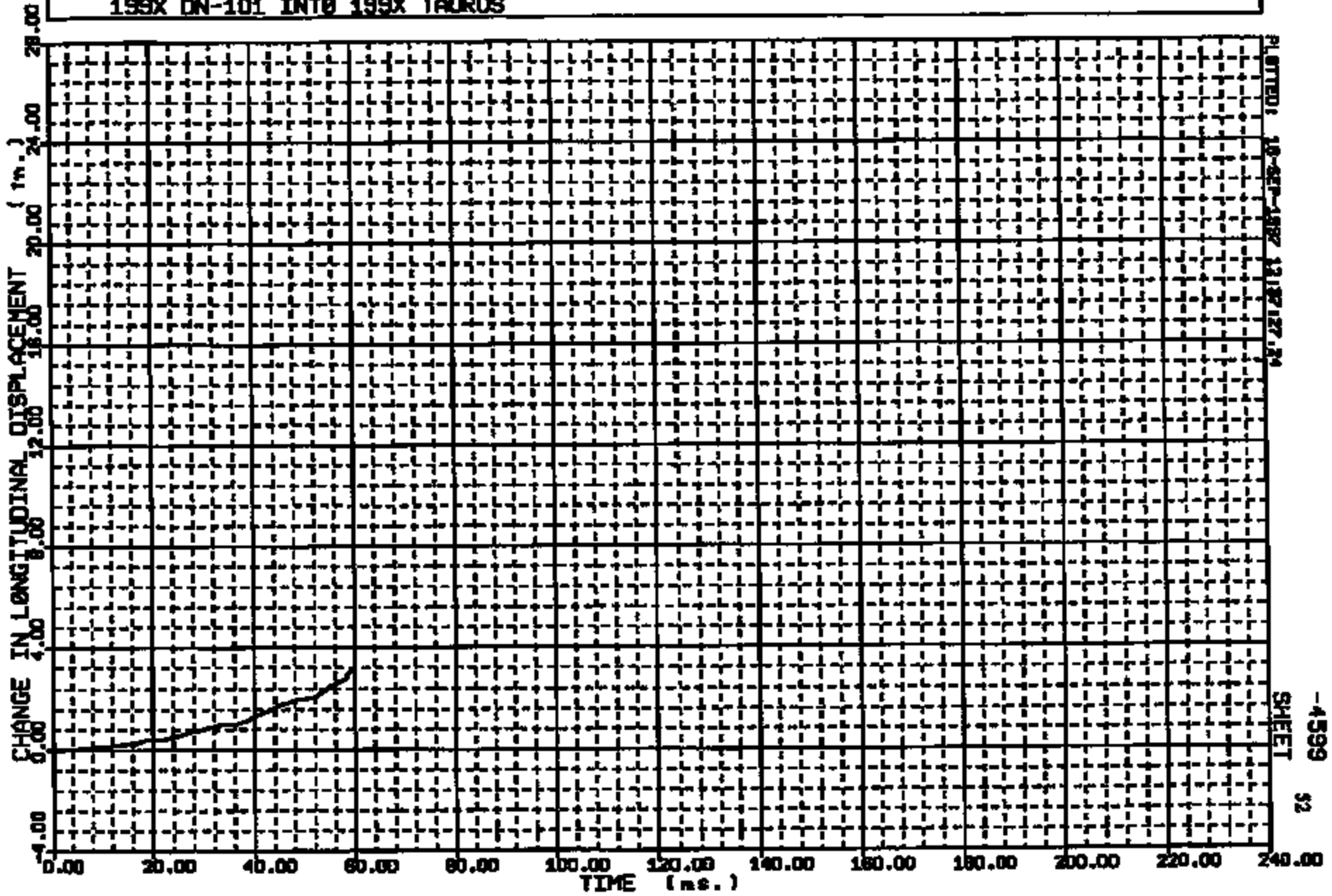
CASMS Version 1.16.14 - 8-Oct-1988 Safety Laboratories Department, BE Unit  
CREATED: 5-NOV-87 12:43:08 TA4599  
PLOT PAGE 173 SHEET 51

CRTS 0010805

Y - AXIS: R/S HEAD - PASSENGER WRT R/ROCKER AT B-PILLAR WPK = 3.213 at 80.00 MDN = -.1087E-01 at 2.00

RUN NO.	FACILITY	TEST ORDER NO.	FILM ANALYSIS METHOD	PITCH CORRECTION
10806	BARRIER	-4599	SCALE	APPLIED

199X DN-101 INTO 199X TAURUS



CRTS 0010806

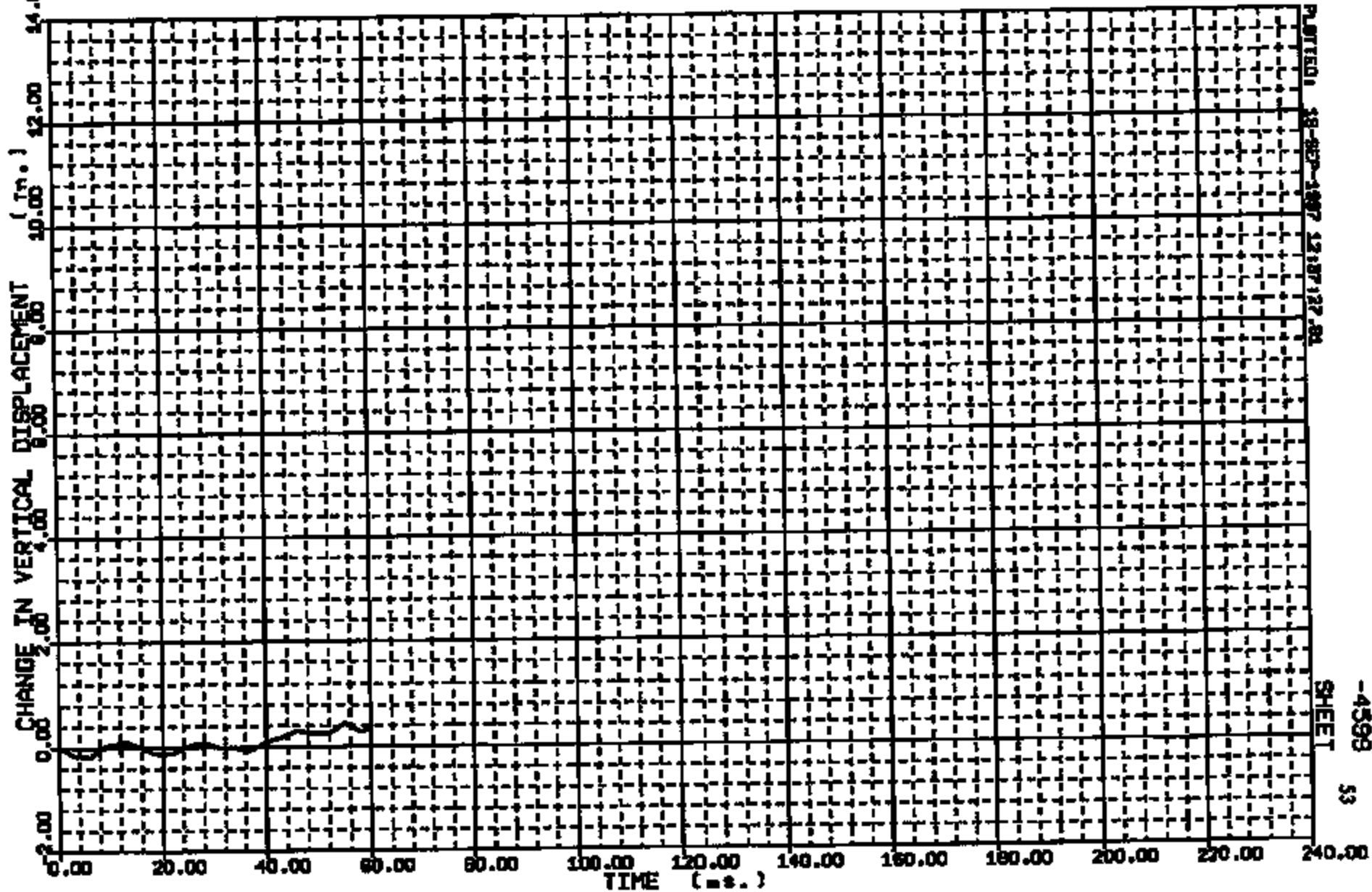
PLOTTED: 10-SEP-1982 13:27:27.24

-4599  
SHEET 52



Y - AXIS: R/S 1030 - PASSENGER MRT R/ROCKER AT B-PILLAR TRK = 0.4478 at 55.00 MIN = -.1043 at 5.00

RUN NO.	FACILITY	TEST ORDER NO.	FILM ANALYSIS METHOD	PITCH CORRECTION APPLIED
10808	BARRIER	-4599	SCALE	
199X DN-101 INTO 199X TAURUS				



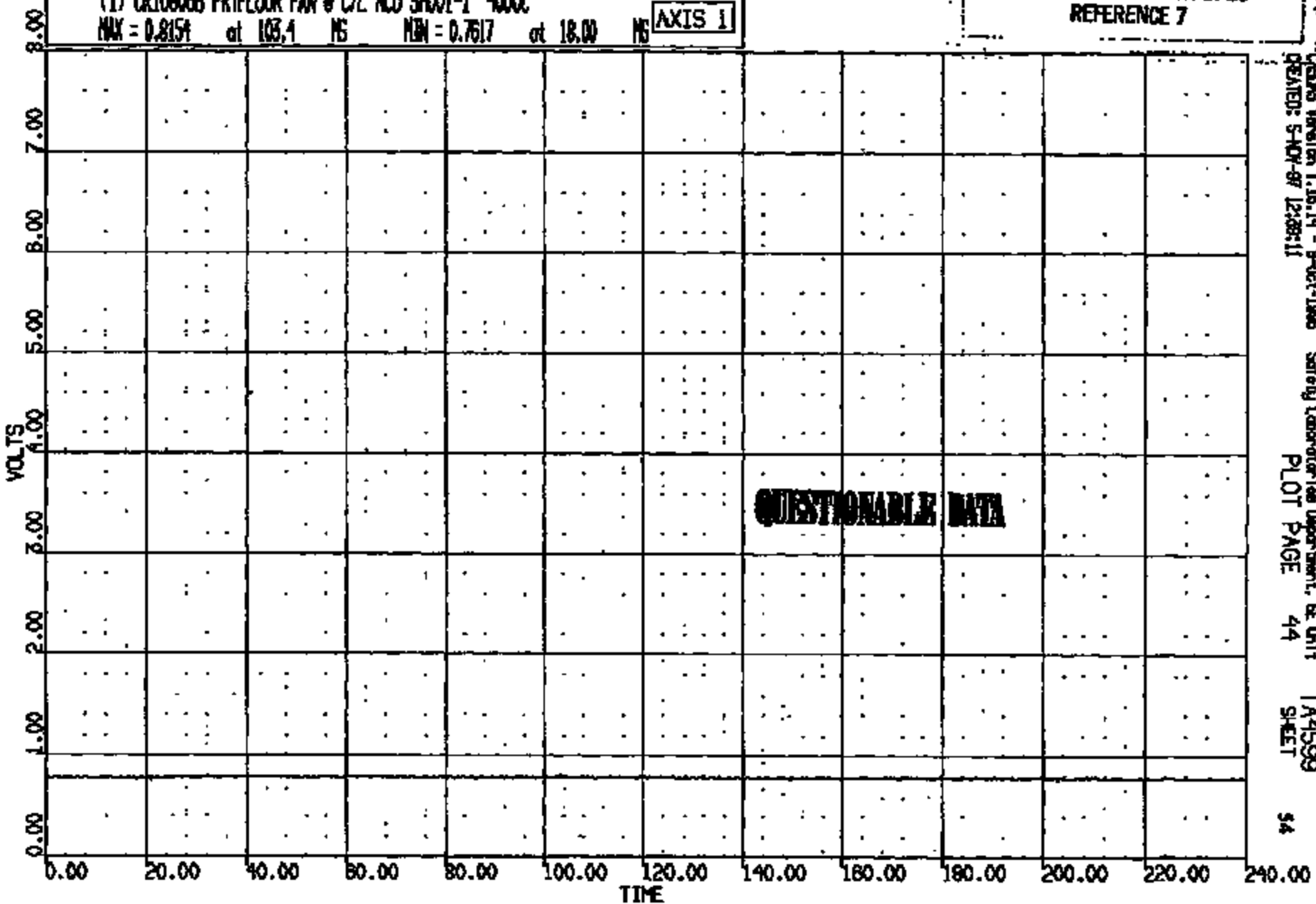
PLotted 18-SEP-1987 12:07:22.84

-4599  
SHEET 53

CR R: 10806 TO: TA4598 DATE: 870821 09:31:21  
189X DN-101 189X DN-101

TIME-ZERO CORRECTED  
IN ACCORDANCE WITH SF-25  
REFERENCE 7

(1) CR10806B FRIELOOR PAN @ C/L. ACD SMOKE-I 4000C  
MAX = 0.8154 at 103.1 MS MIN = 0.7617 at 18.00 MS **AXIS 1**



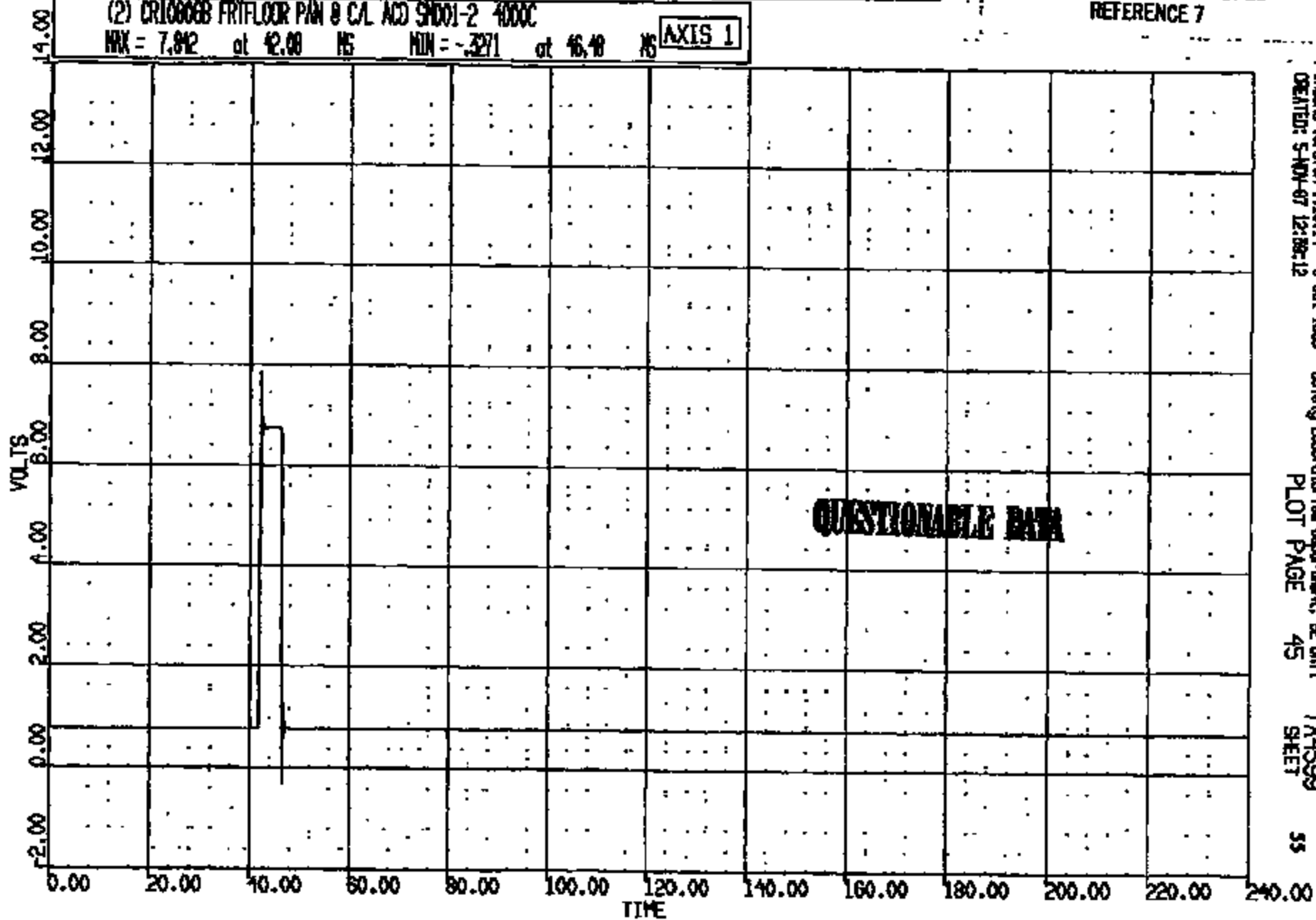
CR10806B Version 1.18.14 - 9-Oct-1988 Safety Laboratories Department, SE Unit  
CREATED: 5-AUG-87 12:28:11 TA4598  
PLOT PAGE 44 SHEET  
54

CR R: 10808 TO: TA4599 DATE: 970821 09:31:21  
199X DN-101 199X DN-101

TIME-ZERO CORRECTED  
IN ACCORDANCE WITH ST-25  
REFERENCE 7

(2) CR1000088 FRITFLOOR PAN @ CAL. ACD SMOO1-2 4000C

MAX = 7.812 at 42.00 NS MIN = -.3271 at 46.40 NS **AXIS 1**

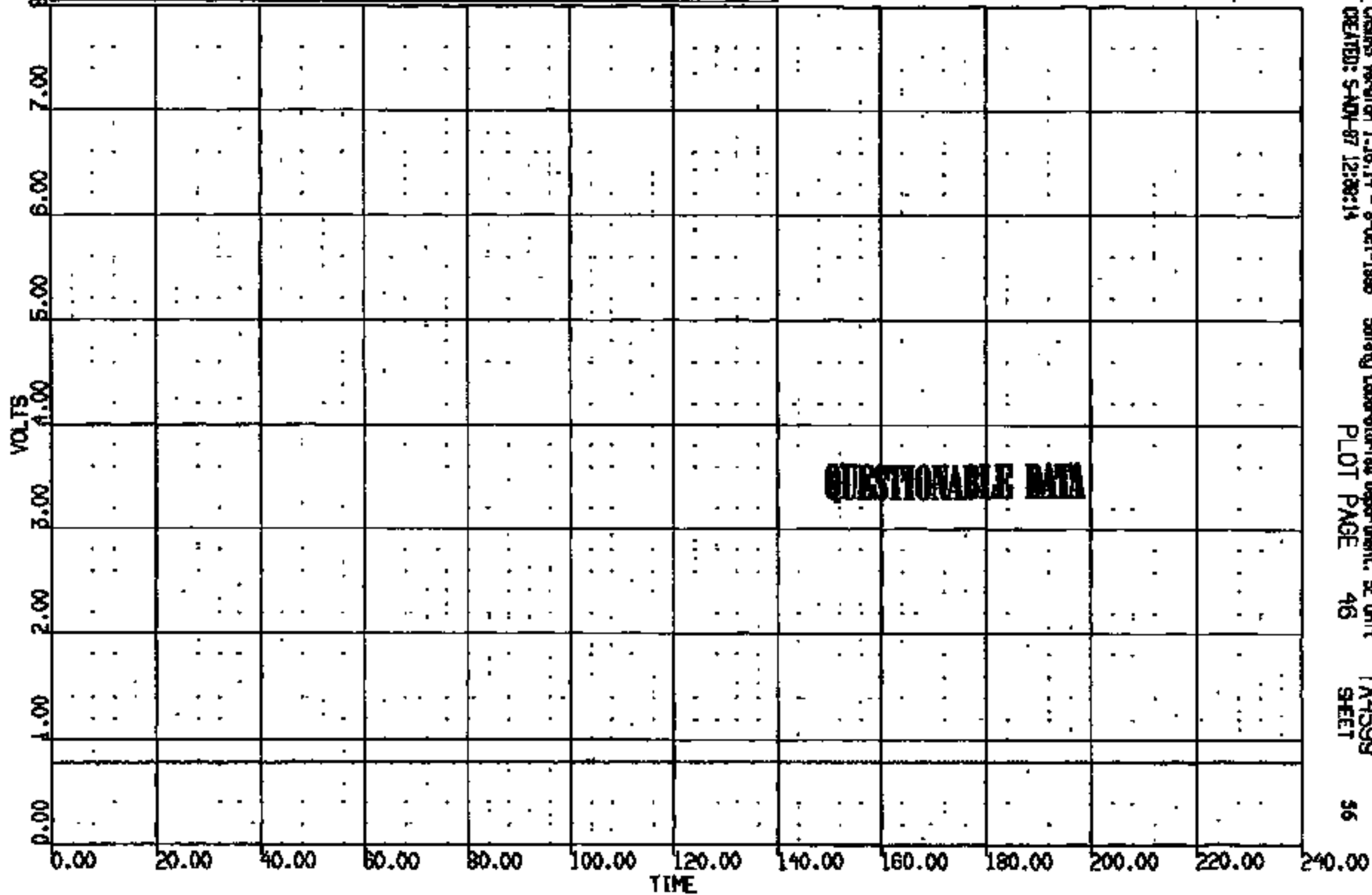


CASUS Version 1.16.14 - 8-Oct-1988 Safety Laboratory Department, EE Unit  
CREATED: 5-NOV-87 12:58:12 PLOT PAGE 45 TA4599  
SHEET 55

CR R: 10806 TO: TA4599 DATE: 870821 08:51:21  
199X DN-101 199X DN-101

TIME-ZERO CORRECTED  
IN ACCORDANCE WITH ST-25  
REFERENCE 7

(3) CR10806B FRITFLOOR PAN @ CAL ACID 5001-3 400C  
MAX = 0.8252 at 101.4 NS MIN = 0.7517 at 8.880 NS **AXIS 1**

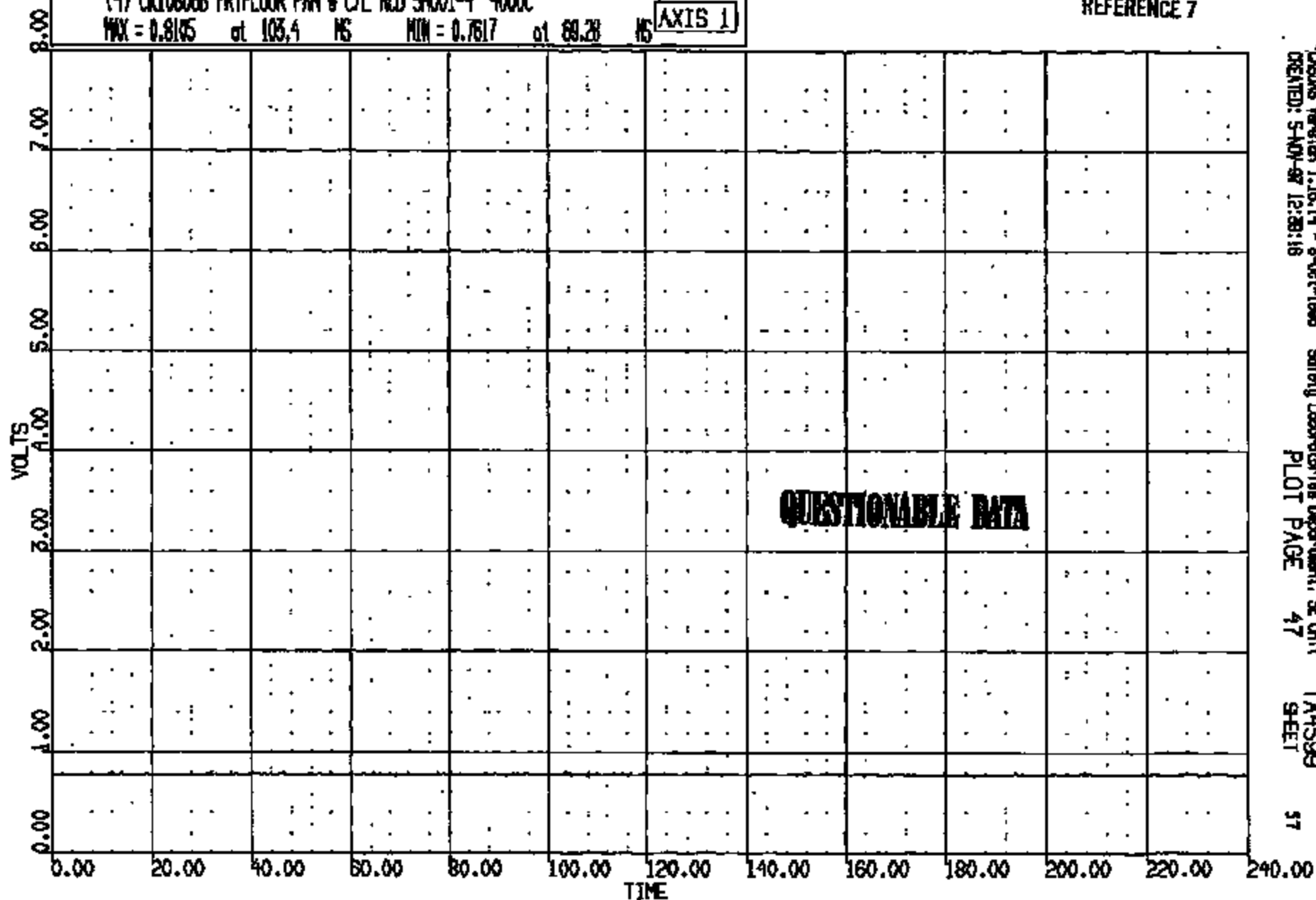


CASIMS Worksheet 1.18.14 - 8-Oct-1988 Safety Laboratories Department, SE Unit  
CREATED: 5-AUG-87 12:38:14 PLOT PAGE 46 TA4599  
56 SHEET

CR R: 10806 TO: TA4599 DATE: 970821 09:31:21  
199X DN-101 199X DN-101

TIME-ZERO CORRECTED  
IN ACCORDANCE WITH ST-25  
REFERENCE 7

(4) CR10806B TRIFLOOR PAN @ C/L ACD 5M001-4 4000C  
MAX = 0.8105 at 103.4 NS MIN = 0.7617 at 89.28 NS **AXIS 1**



CASUS Version 1.16.14 - 8-Oct-1999  
CREATED: 5-NOV-97 12:28:16

Safety Laboratories Department, SE Unit  
PLOT PAGE 47

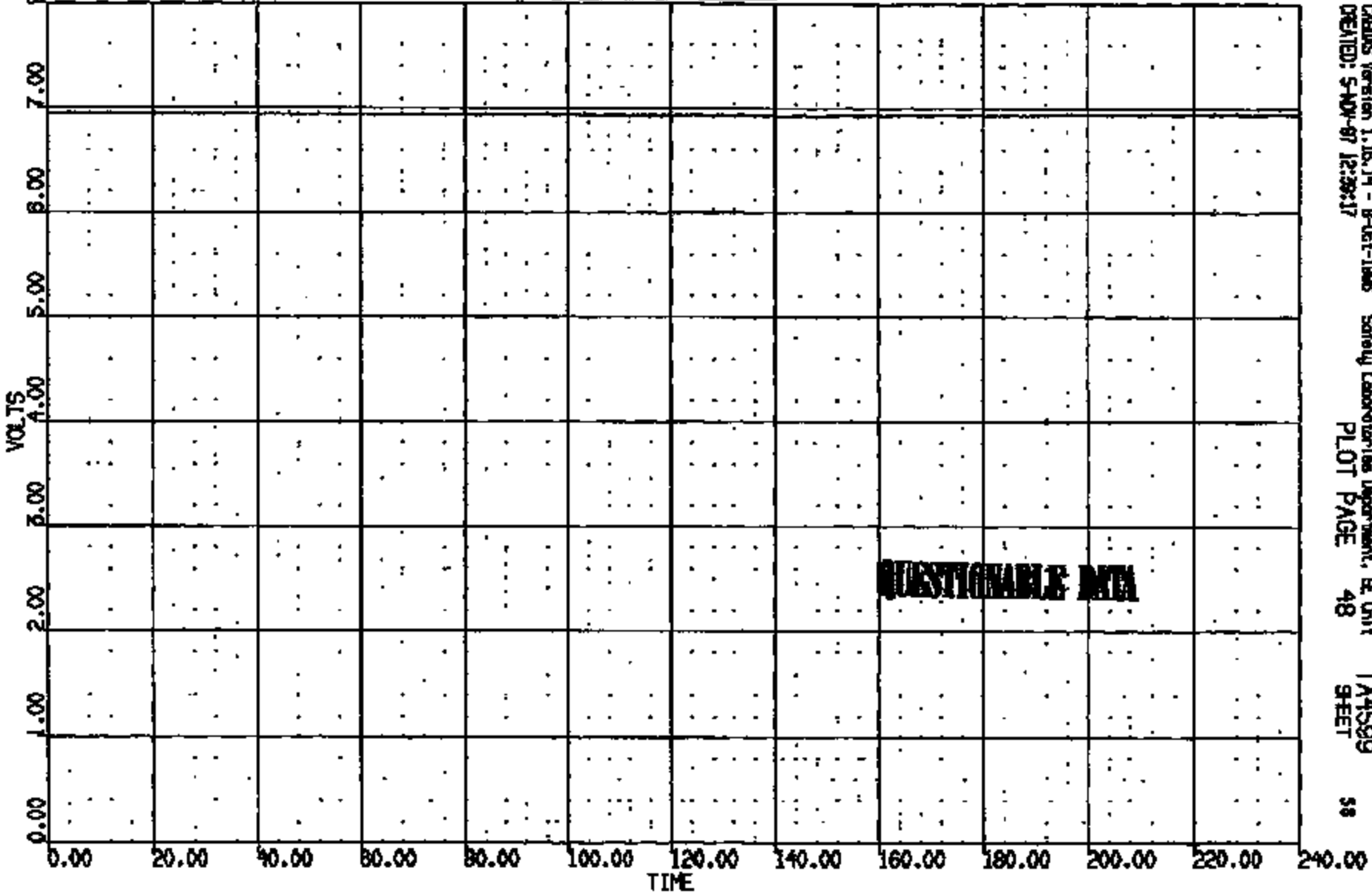
TA4599  
SHEET

57

CR #: 10806 TO: TA4599 DATE: 970821 09:51:21  
199X DN-101 199X DN-101

TIME-ZERO CORRECTED  
IN ACCORDANCE WITH ST-25  
REFERENCE 7

(5) CR10806B FRIFLOOR PAN @ CAL. ACD 59001-8 400C  
MAX = 6.953 at 46.32 NS MIN = 6.914 at 118.2 NS **AXIS 1**



CRMS Version 1.18.14 - 8-Oct-1995 Safety Laboratories Department, E Unit  
CREATED: 5-MAY-97 12:39:17  
PLOT PAGE 48  
TA4599 SHEET 58

CRTS 0010806

CR R: 10806 TO: TA4599 DATE: 970821 08:21:21  
199X DN-101 199X DN-101

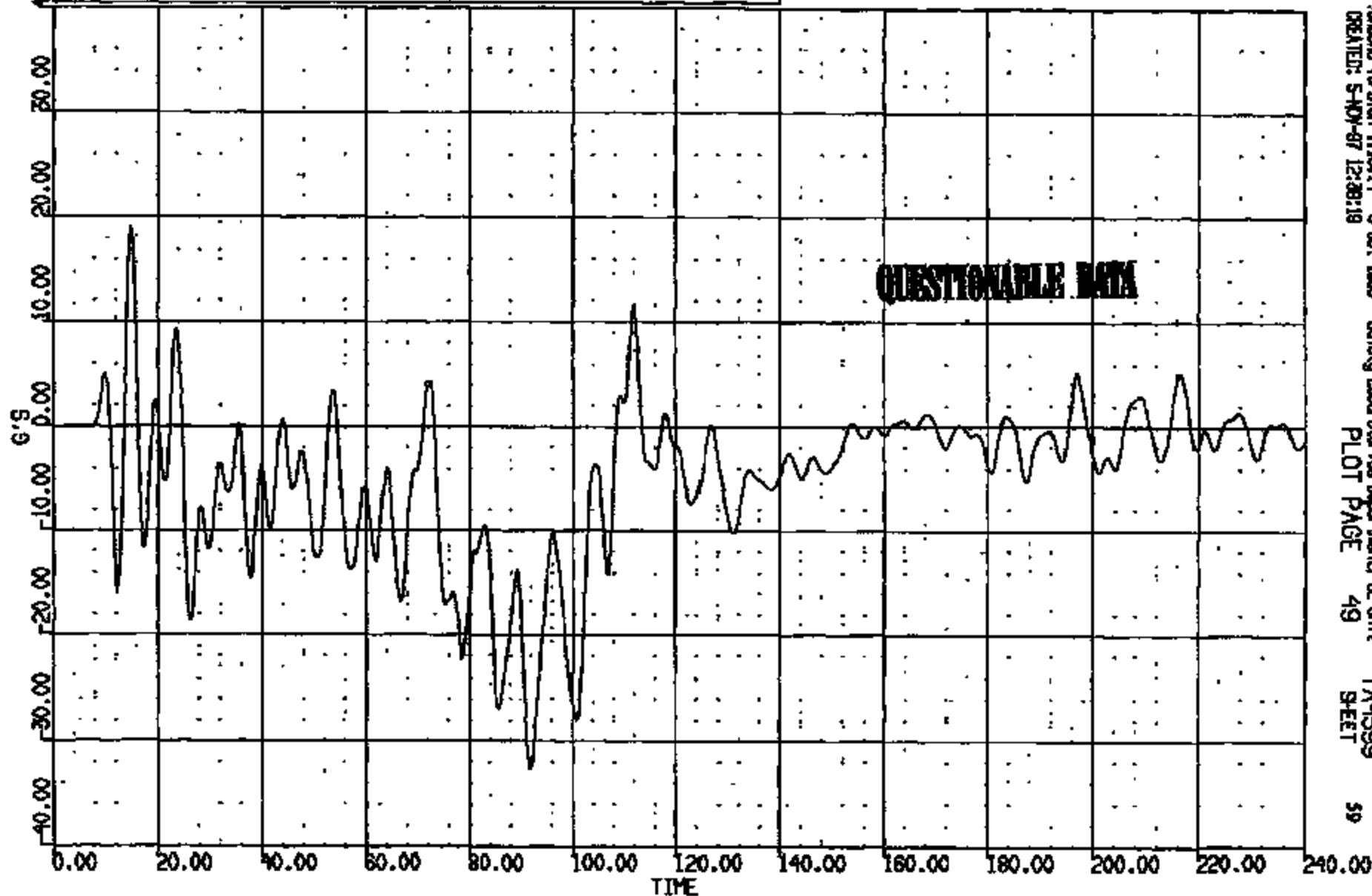
TIME-ZERO CORRECTED  
IN ACCORDANCE WITH ST-25  
REFERENCE 7

(6) CR10006B FRIFLOOR PAN @ C/L ON ACI LONG 60C

MAX = 18.88 at 14.88 MS MIN = -32.78 at 91.04 MS

AXIS 1

QUESTIONABLE DATA



CRS018 Version 1.18.14 - 9-01-1999  
CREATED: 5-NOV-97 12:28:19

Safety Laboratories Department, SE Unit  
PLOT PAGE 49

TA4599  
SHEET

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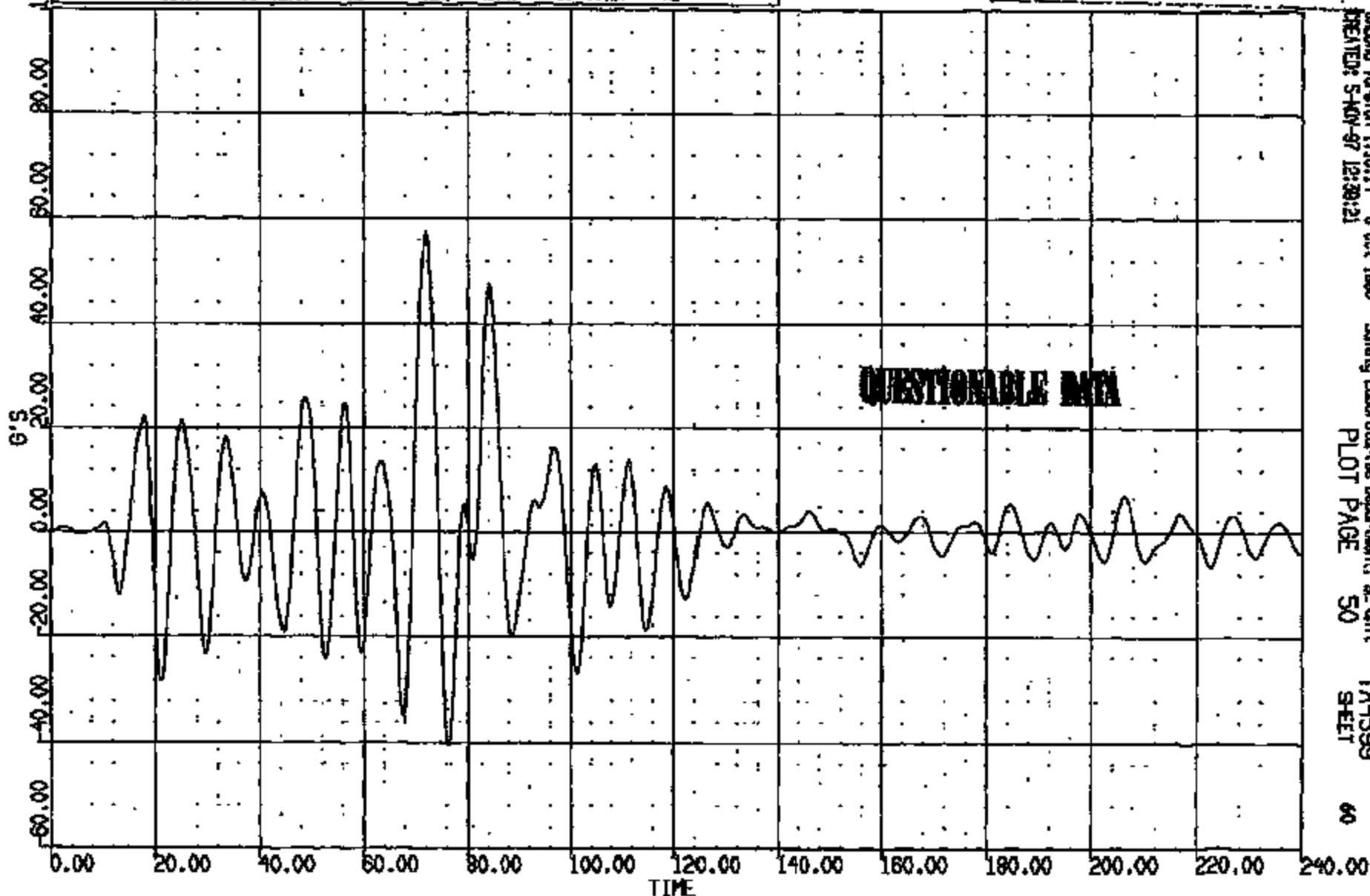
CRS018 0010806

CR#: 10806 TO: TA4599 DATE: 870821 09:31:21  
199X DN-101 199X DN-101

TIME-ZERO CORRECTED  
IN ACCORDANCE WITH SI-25  
REFERENCE 7

(7) CR10806B FRTFLOOR PAN @ C/L ON ACC VERT 60C

MAX = 56.93 at 72.08 MS MIN = -40.95 at 76.29 MS **AXIS 1**



CRSMS Version 1.18.14 - 8-Oct-1986  
CREATED: S-MAY-97 12:39:21

Safety Laboratories Department, BE Unit  
PLOT PAGE 50

TA4599  
SHEET

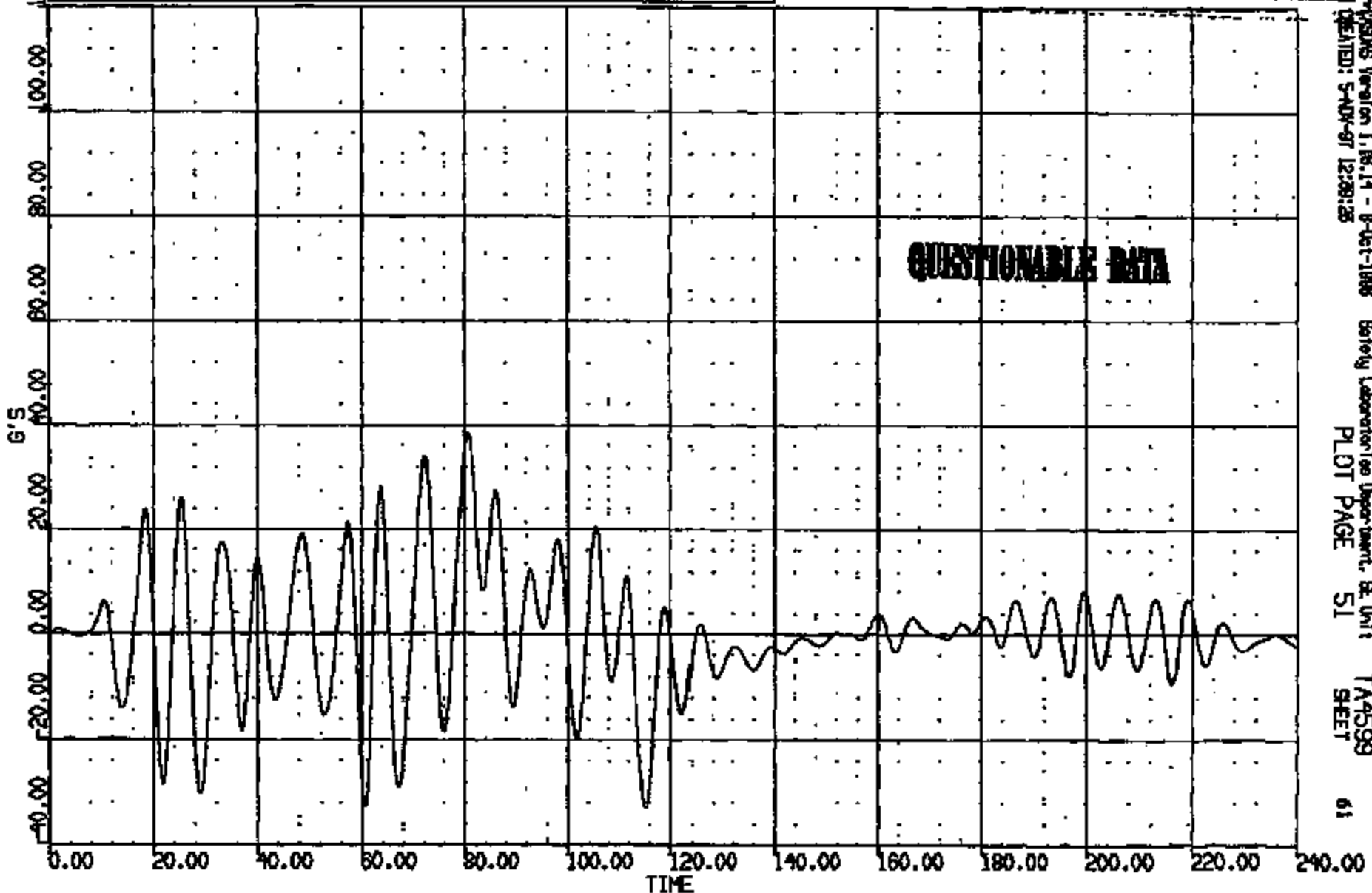
60



CR R: 10608 TO: TA4599 DATE: 070921 09:31:21  
199X DN-101 199X DN-101

TIME-ZERO CORRECTED  
IN ACCORDANCE WITH ST-25  
REFERENCE 7

(8) CR108068 FRTFLDR PWN @ C/L ON ACD LAT 60C  
MAX = 38.45 at 80.72 MS MIN = -33.06 at 115.3 MS **AXIS 1**



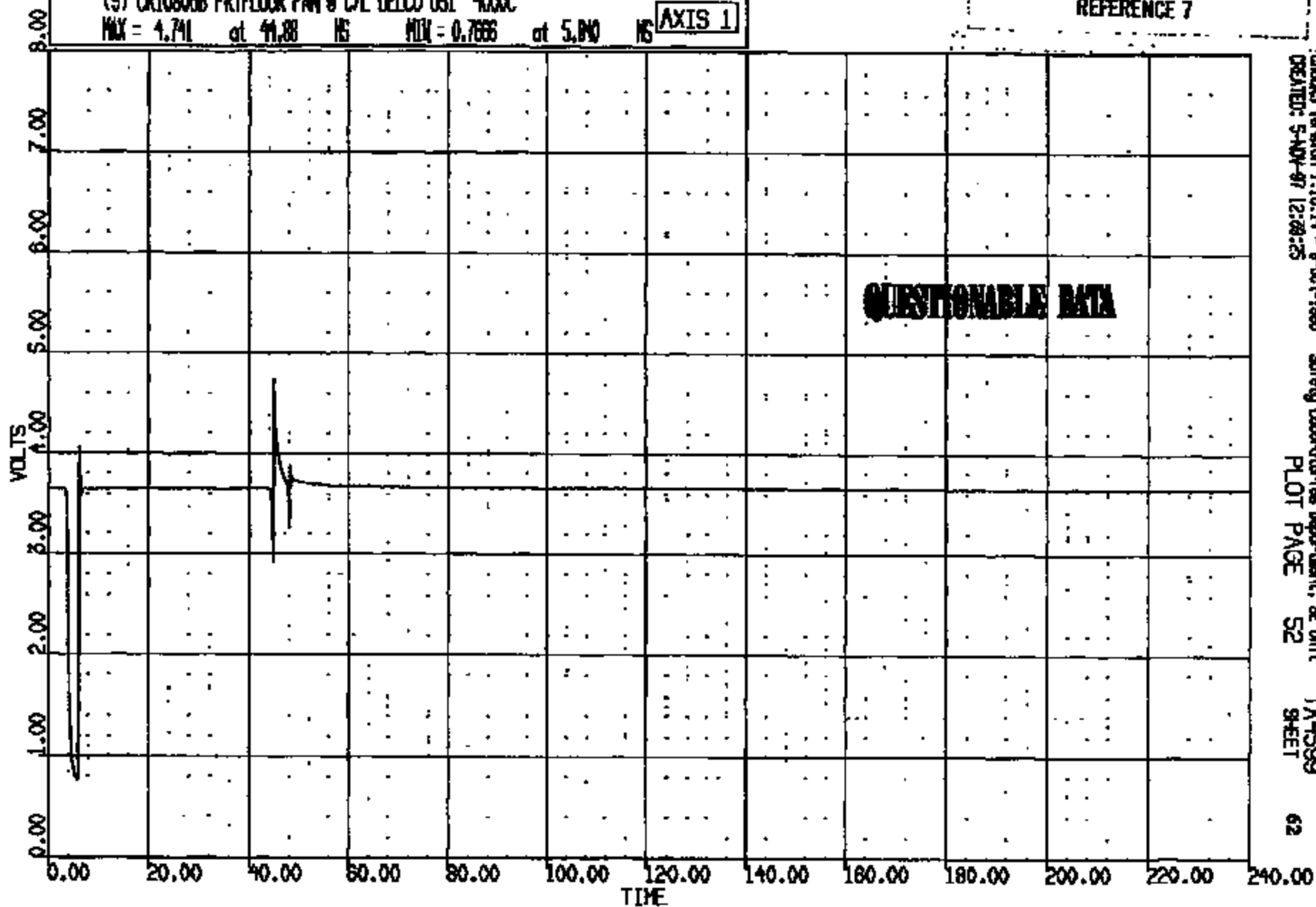
PLDTS Version 1.18.14 - 8-Oct-1998 Safety Laboratory Department, BE Unit  
CREATED: 5-NOV-97 12:29:28  
PLDT PAGE 51 TA4599  
SHEET 61

CRTS 0010806

CR R: 10806 TO: TA4599 DATE: 970921 09:51:21  
199X DN-101 199X DN-101

TIME-ZERO CORRECTED  
IN ACCORDANCE WITH ST-25  
REFERENCE 7

(9) CR10806B FRIFLOOR PAN @ C/L DELCD USL 4000C  
MAX = 4.741 at 41.88 NS MIN = 0.7666 at 5.00 NS **AXIS 1**



CASAS Version 1.16.14 - 9-Oct-1998  
CREATED: 5-NOV-97 12:08:25

Safety Laboratories Department, SE Unit  
PLOT PAGE 52

TA4599  
SHEET

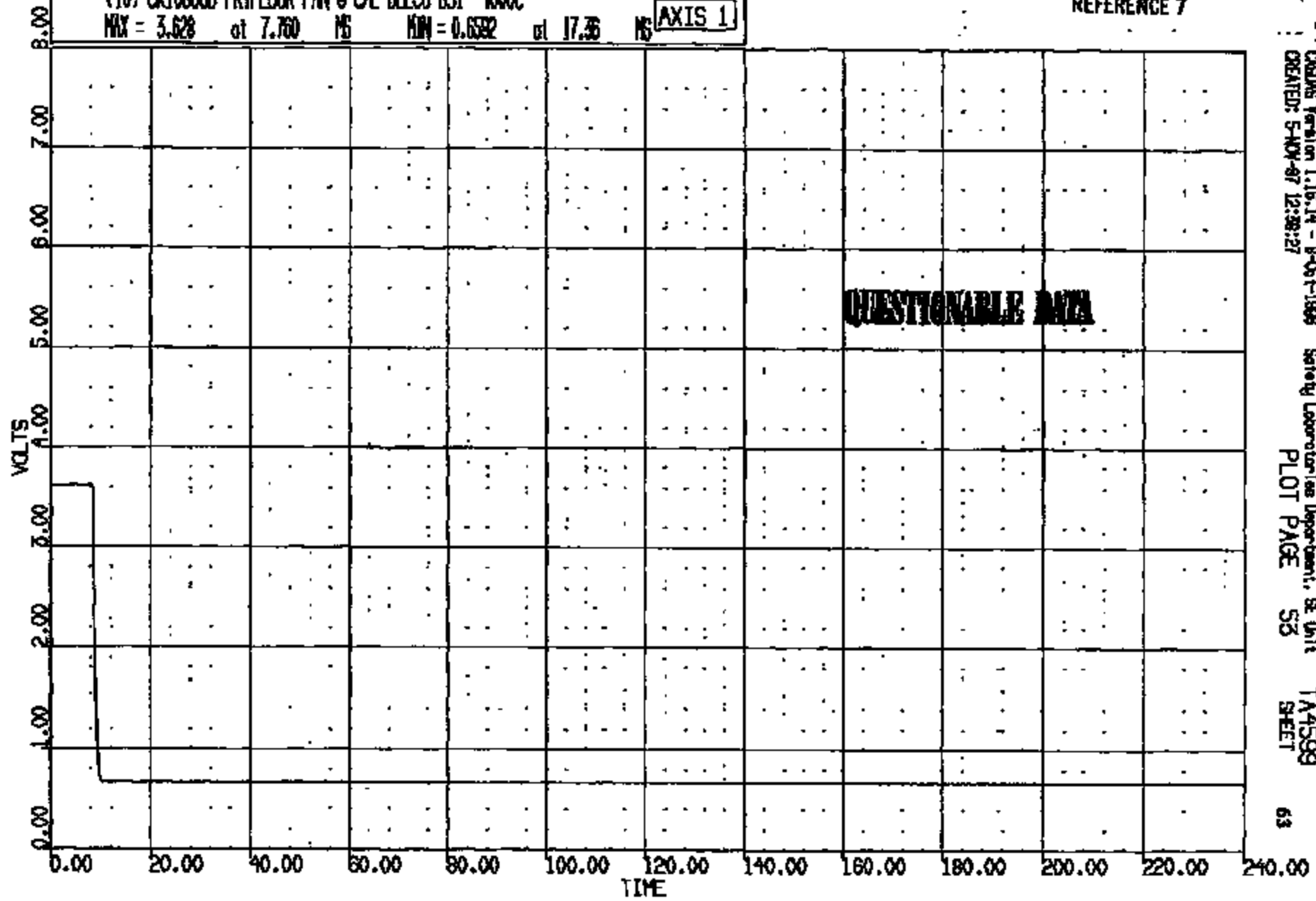
62

CRIS 0010806

CR R: 10808 TO: TA4599 DATE: 070821 08:51:21  
199X DN-101 199X DN-101

TIME-ZERO CORRECTED  
IN ACCORDANCE WITH ST-25  
REFERENCE 7

(10) CR100068 FRIFLOOR PWR @ CAL DELCO BSI 4000C  
MAX = 3.628 at 7.760 MS MIN = 0.6592 at 17.36 MS **AXIS 1**

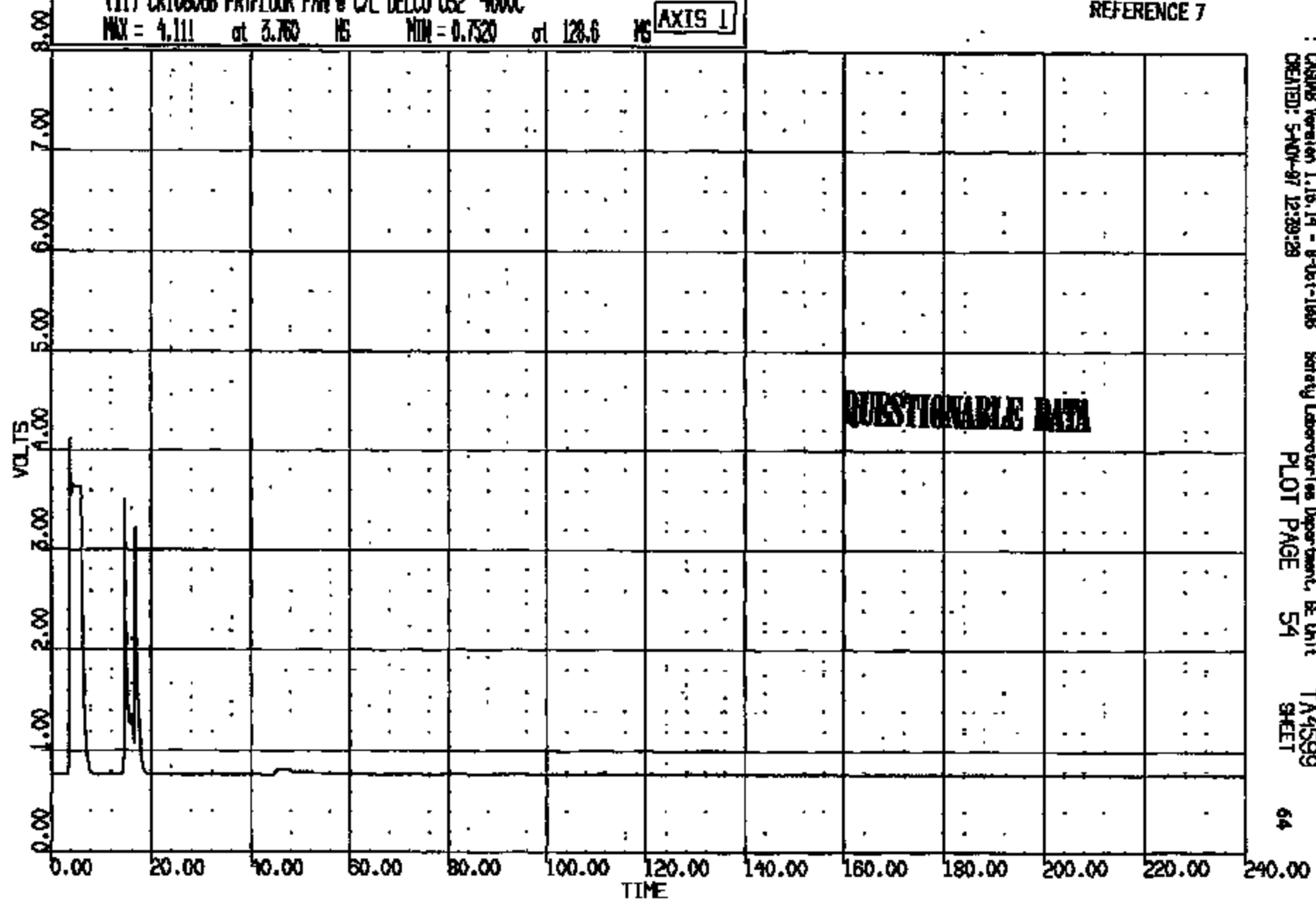


CRS016 Version 1.16-14 - B-04-1-1999 Safety Laboratories Department, SE Unit  
CREATED: 5-NOV-97 12:38:27 PLOT PAGE 53 TA4599  
SHEET 63

CR#: 10806 TC: TA4599 DATE: 970821 09:51:21  
199X DN-101 199X DN-101

TIME-ZERO CORRECTED  
IN ACCORDANCE WITH ST-25  
REFERENCE 7

(11) CR10806B FR1FLOOR PAV @ C/L DELCO US2 4000C  
MAX = 4.111 at 3.760 NS MIN = 0.7520 at 128.6 NS **AXIS 1**

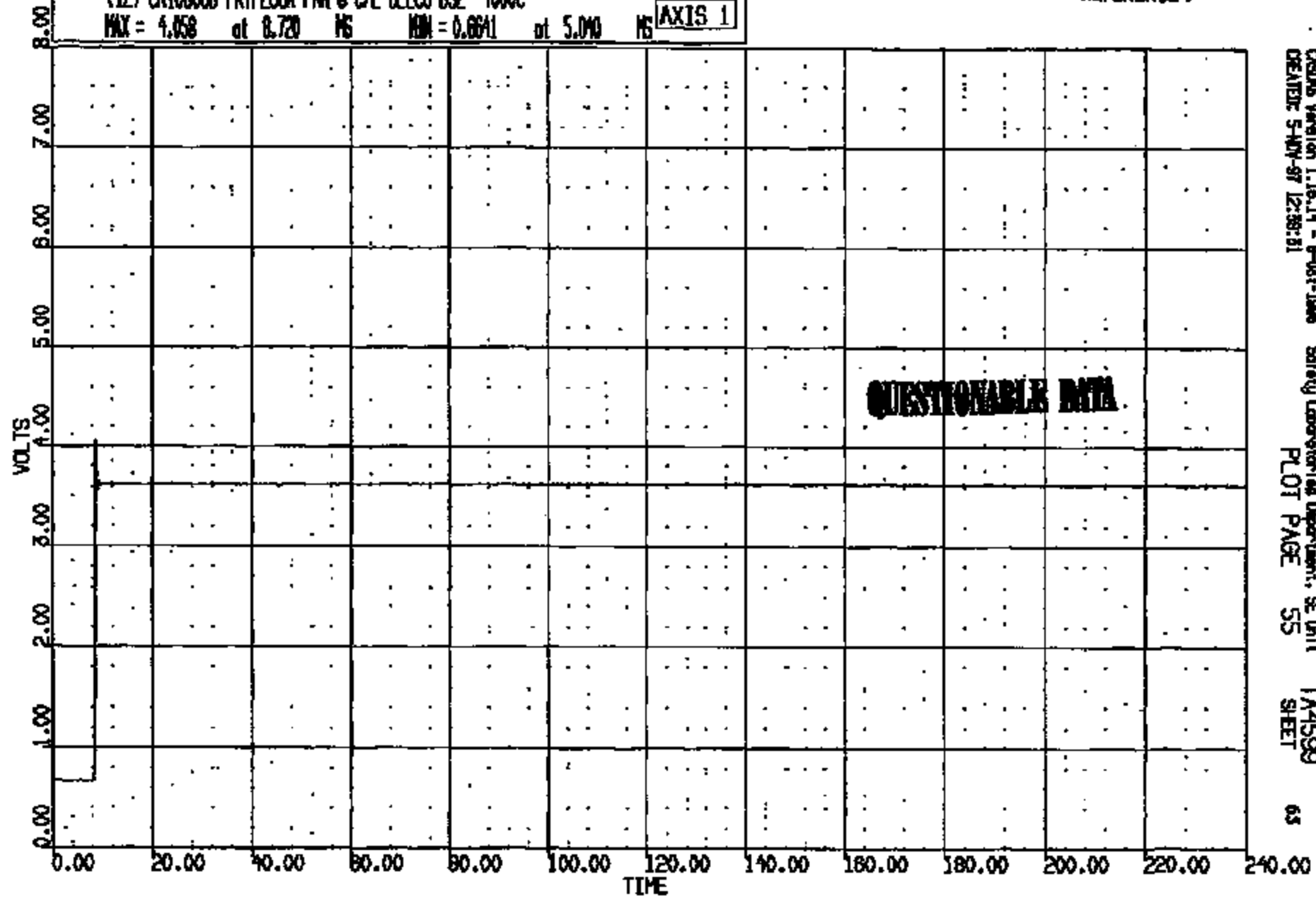


CASING Version 1.16.14 - 8-01-1998 Safety Laboratories Department, EE Unit  
CREATED: 5-NOV-97 12:29:28 PLOT PAGE 54 TA4599 SHEET 64

CR R: 10806 TO: TA4598 DATE: 870821 08:51:21  
199X DN-101 199X DN-101

TIME-ZERO CORRECTED  
IN ACCORDANCE WITH ST-25  
REFERENCE 7

(12) CR100068 FRTFLOOR PAN @ C/L DELCO BS2 4000C  
MAX = 4.058 at 0.720 MS MIN = 0.0641 at 5.040 MS **AXIS 1**



CRSIS Version 1.18.14 - 8-04-1988 Safety Laboratory Department, SE Unit  
CREATED 5-MAY-87 12:58:51  
PLOT PAGE 55  
TA4598  
SHEET 65

CRIS 0010806

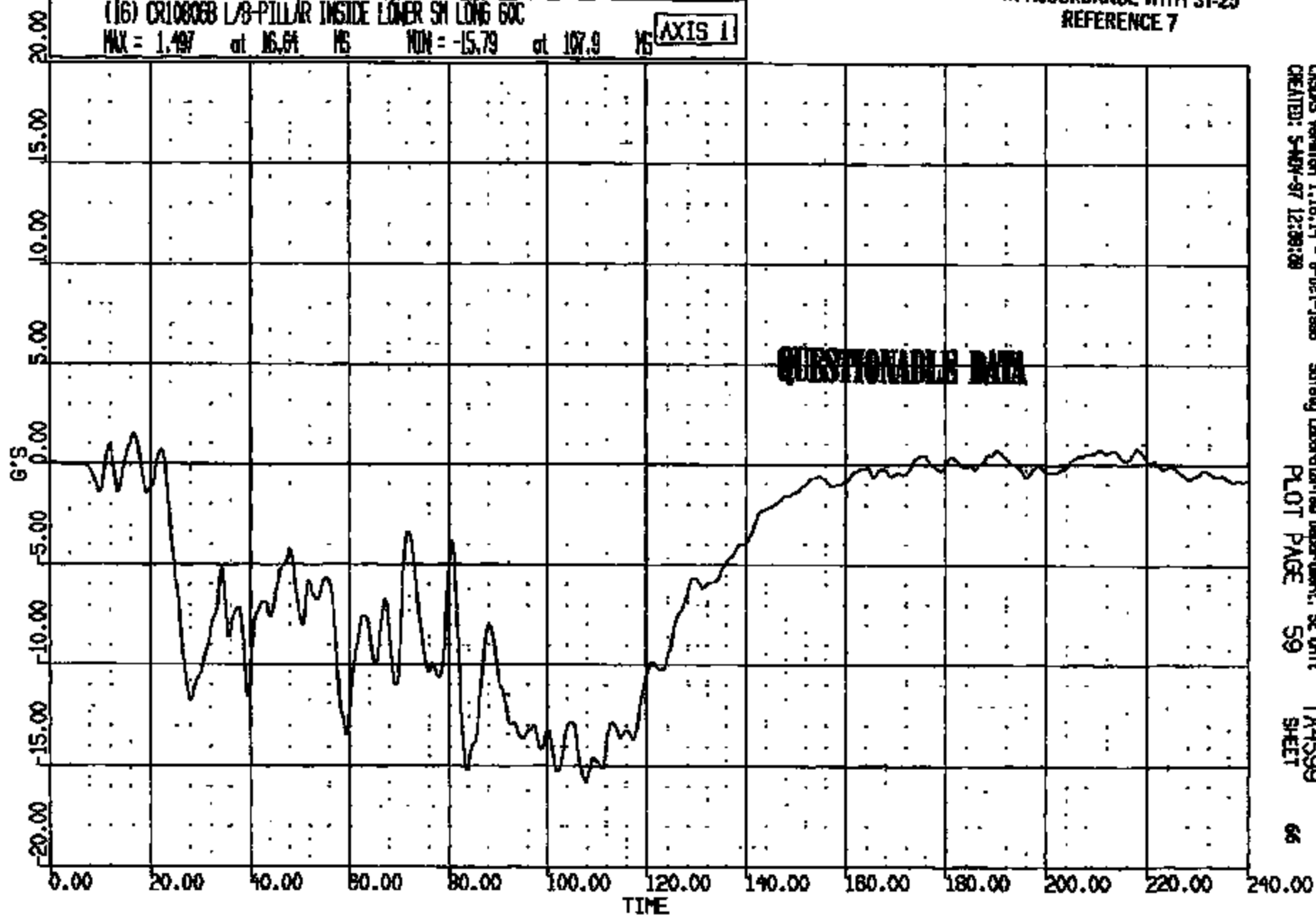
CR R: 10806 TO: TA4599 DATE: 970821 09:51:21  
199X DN-101 199X DN-101

TIME-ZERO CORRECTED  
IN ACCORDANCE WITH ST-25  
REFERENCE 7

(16) CR10806B L/B-PILLAR INSIDE LOWER SH LONG 60C

MAX = 1.497 at 16.64 MS MIN = -15.79 at 107.9 MS

AXIS 1



CASDIS Version 1.16.14 - 9-Jul-1998  
CREATED: 5-MAY-97 12:09:09

Safety Laboratories Department, SE Unit  
PLOT PAGE 59

TA4599  
SHEET

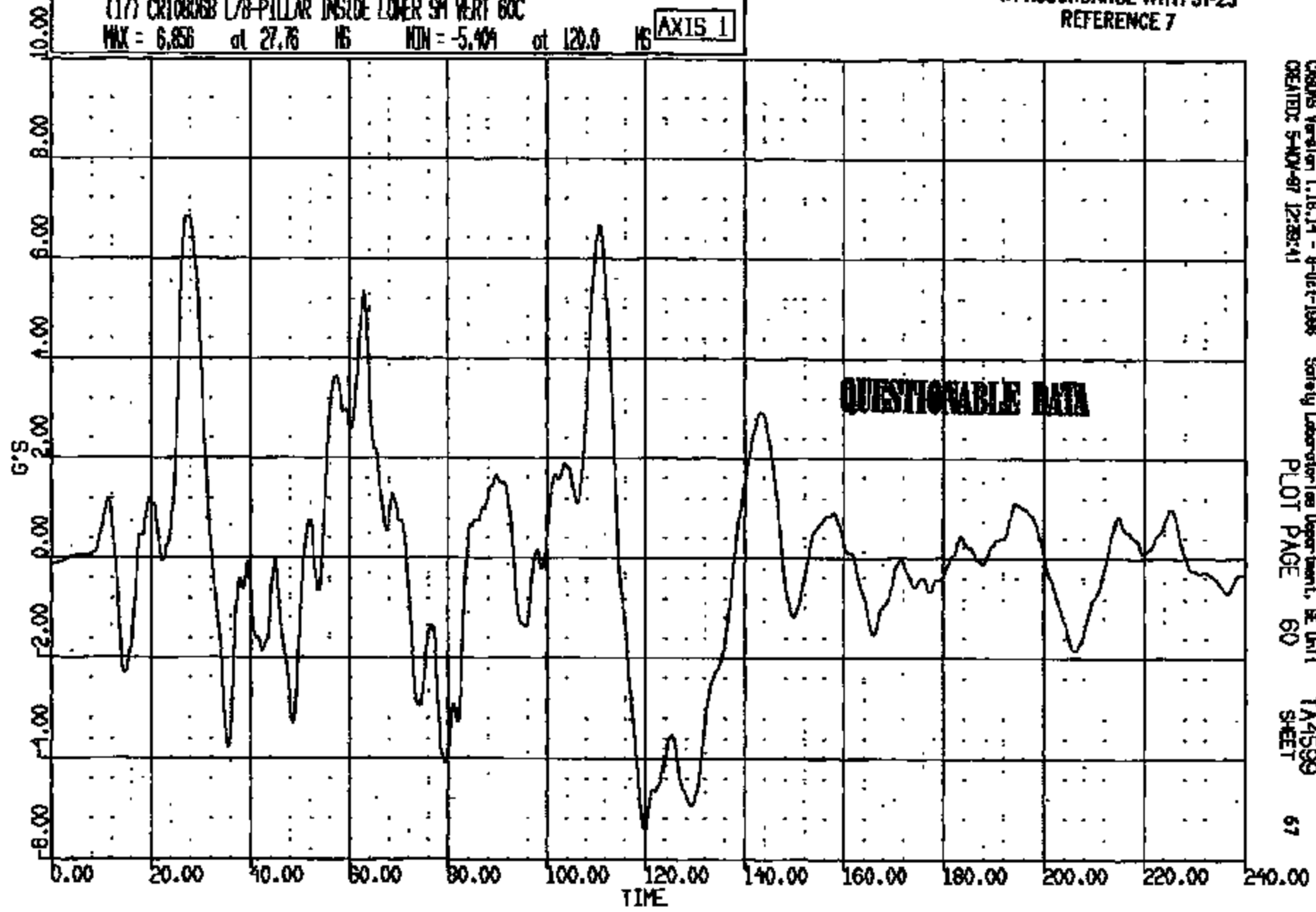
66

CRIS 0010806

CR R: 10806 TO: TA4599 DATE: 870821 00:51:21  
199X DN-101 199X DN-101

TIME-ZERO CORRECTED  
IN ACCORDANCE WITH ST-25  
REFERENCE 7

(17) CR10806B L/B-PILLAR INSIDE LOWER SH VERT 60C  
MAX = 6.856 at 27.76 MS MIN = -5.404 at 120.0 MS **AXIS 1**



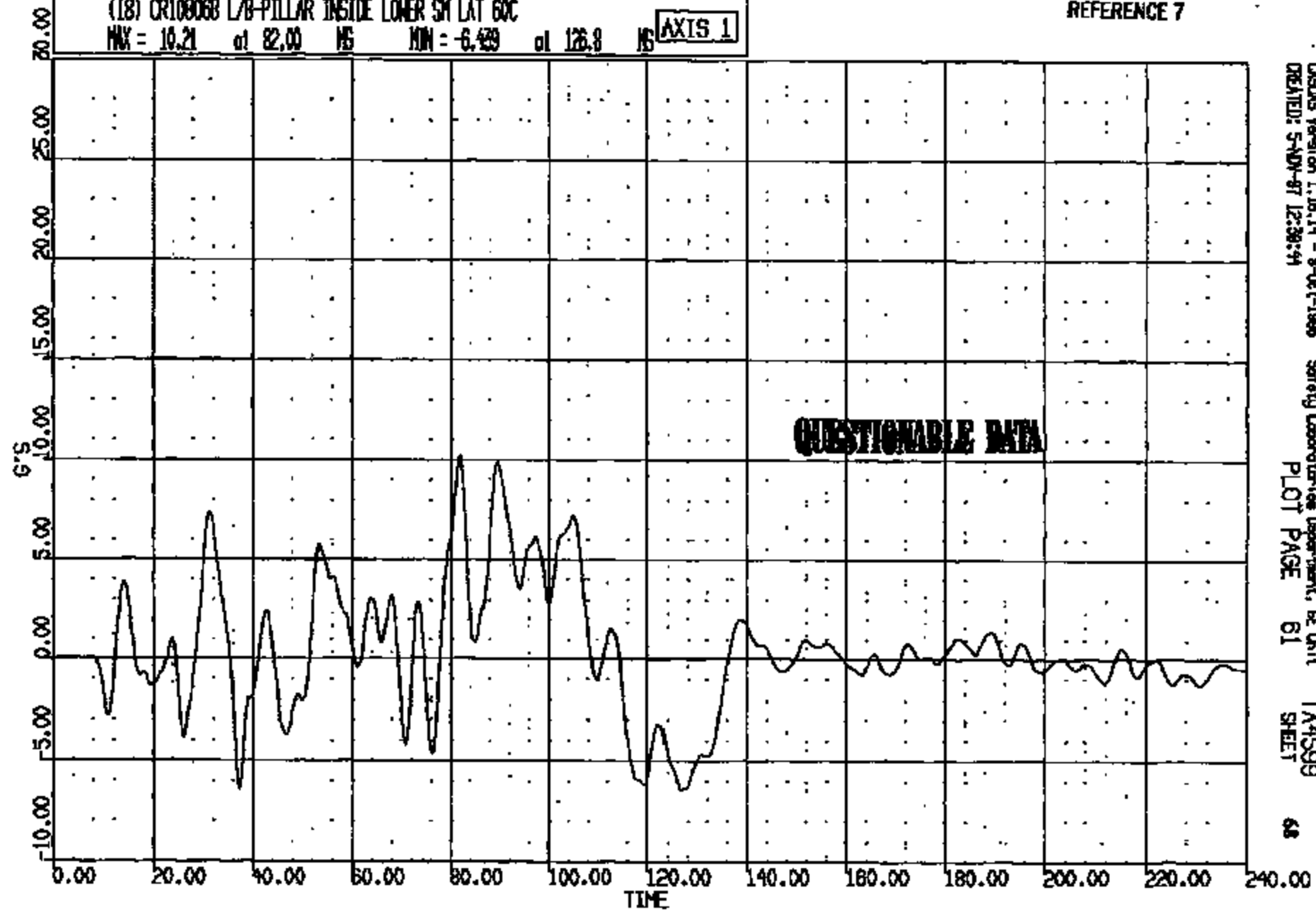
CRS Version 1.16.14 - 8-Oct-1998 Safety Laboratory Department, BE Unit  
CREATED: 5-AUG-87 12:33:41 PLOT PAGE 60 TA4599 SHEET 67

CRTS 0010806

CR R: 10806 TO: TA4599 DATE: 870821 09:31:21  
189X DN-101 189X DN-101

TIME-ZERO CORRECTED  
IN ACCORDANCE WITH SI-25  
REFERENCE 7

(18) CR108068 L/B-PILLAR INSIDE LOWER SM LAT 60C  
MAX = 10.21 at 82.00 MS MIN = -6.439 at 126.8 MS **AXIS 1**



CADSYS Version 1.16.14 - 8-04-1-1988 Safety Laboratories Department, BE Unit TA4599  
CREATED: 5-MAY-87 12:38:44 PLOT PAGE 61 SHEET 68

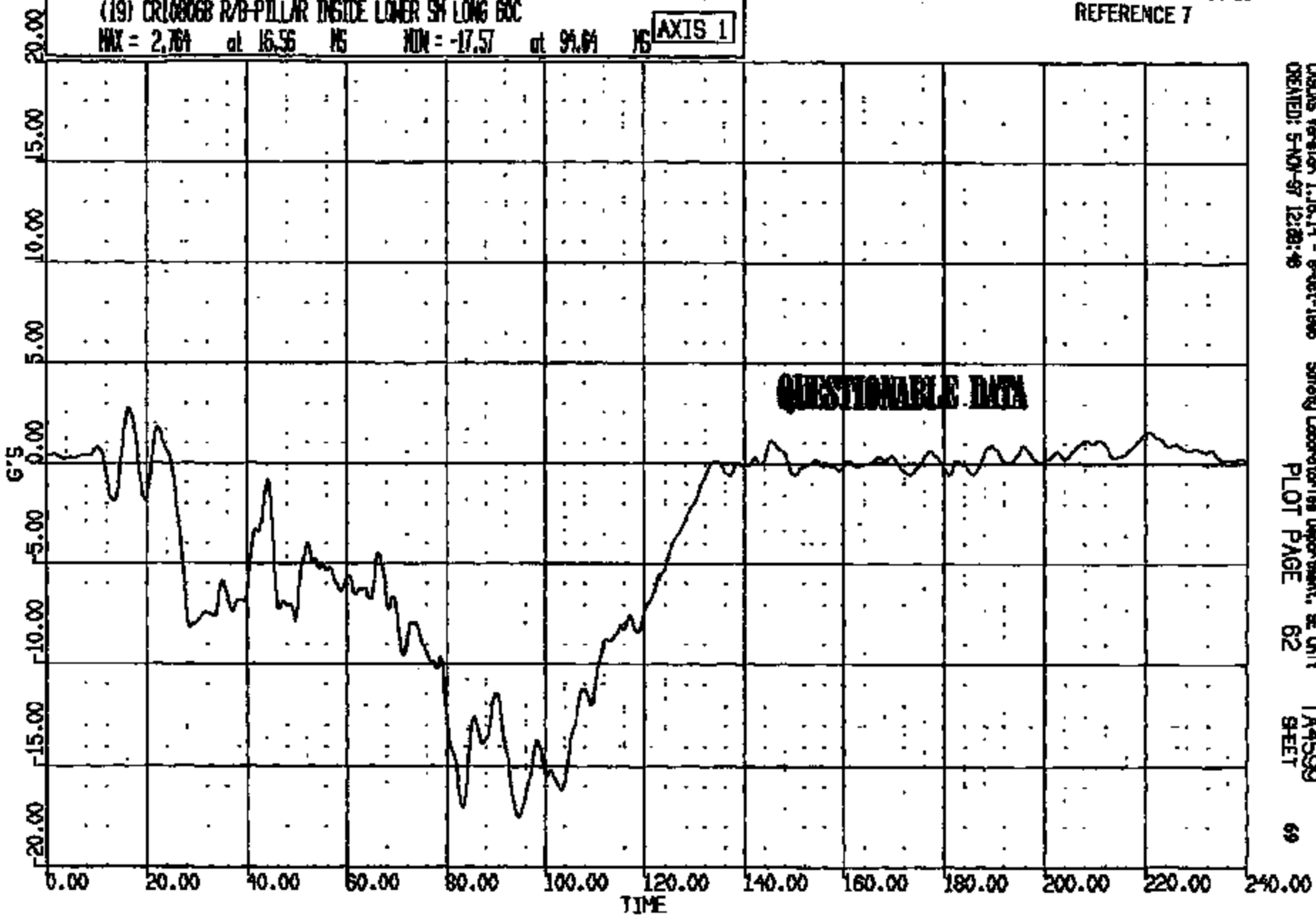
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CR R: 10808 TD: TA4599 DATE: 870821 09:31:21  
199X DN-101 199X DN-101

TIME-ZERO CORRECTED  
IN ACCORDANCE WITH ST-25  
REFERENCE 7

(19) CR108068 R/B-PILLAR INSIDE LOWER SH LONG GOC  
MAX = 2.761 at 16.56 MS MIN = -17.57 at 99.64 MS **AXIS 1**



CASUS Version 1.18.14 - 8-Oct-1986 Safety Laboratories Department, SE Unit  
CREATED: 5-NOV-87 12:28:48  
PLOT PAGE 62  
TA4599  
SHEET 69

CRTS 0010805

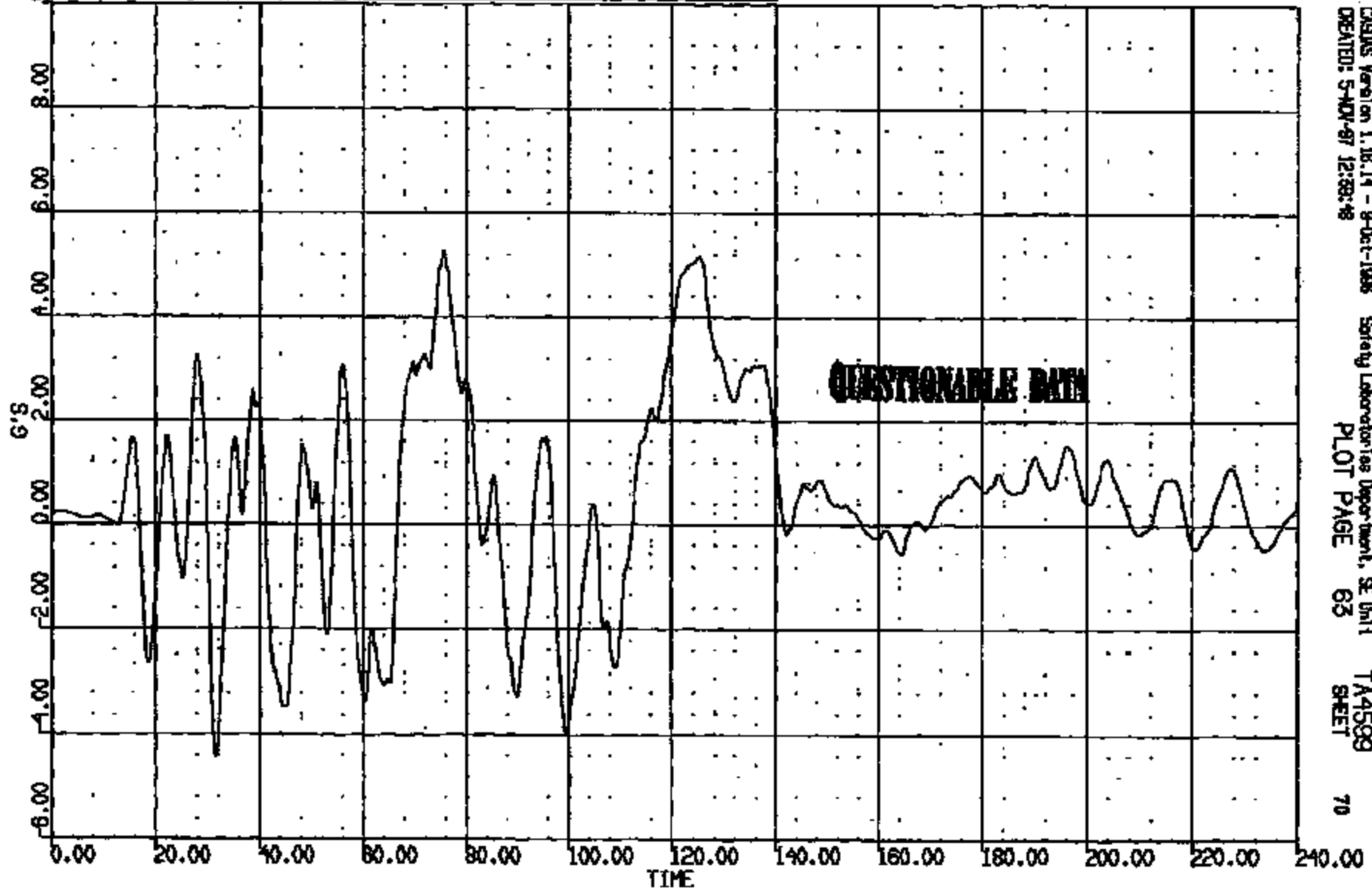
CR R: 10806 TO: TA4599 DATE: 970821 09:31:21  
199X DN-101 199X DN-101

TIME-ZERO CORRECTED  
IN ACCORDANCE WITH ST-25  
REFERENCE 7

(20) CR10806B R/B-PILLAR INSIDE LOWER SH VERT 60C

MAX = 5.298 at 75.60 MS MIN = -4.430 at 31.60 MS

AXIS 1



CRS Version 1.16.14 - 9-Oct-1998 Safety Laboratories Department, SE Unit TA4599  
CREATED: 5-AUG-97 12:33:48 PLOT PAGE 63 SHEET 70

CRTS 0010806

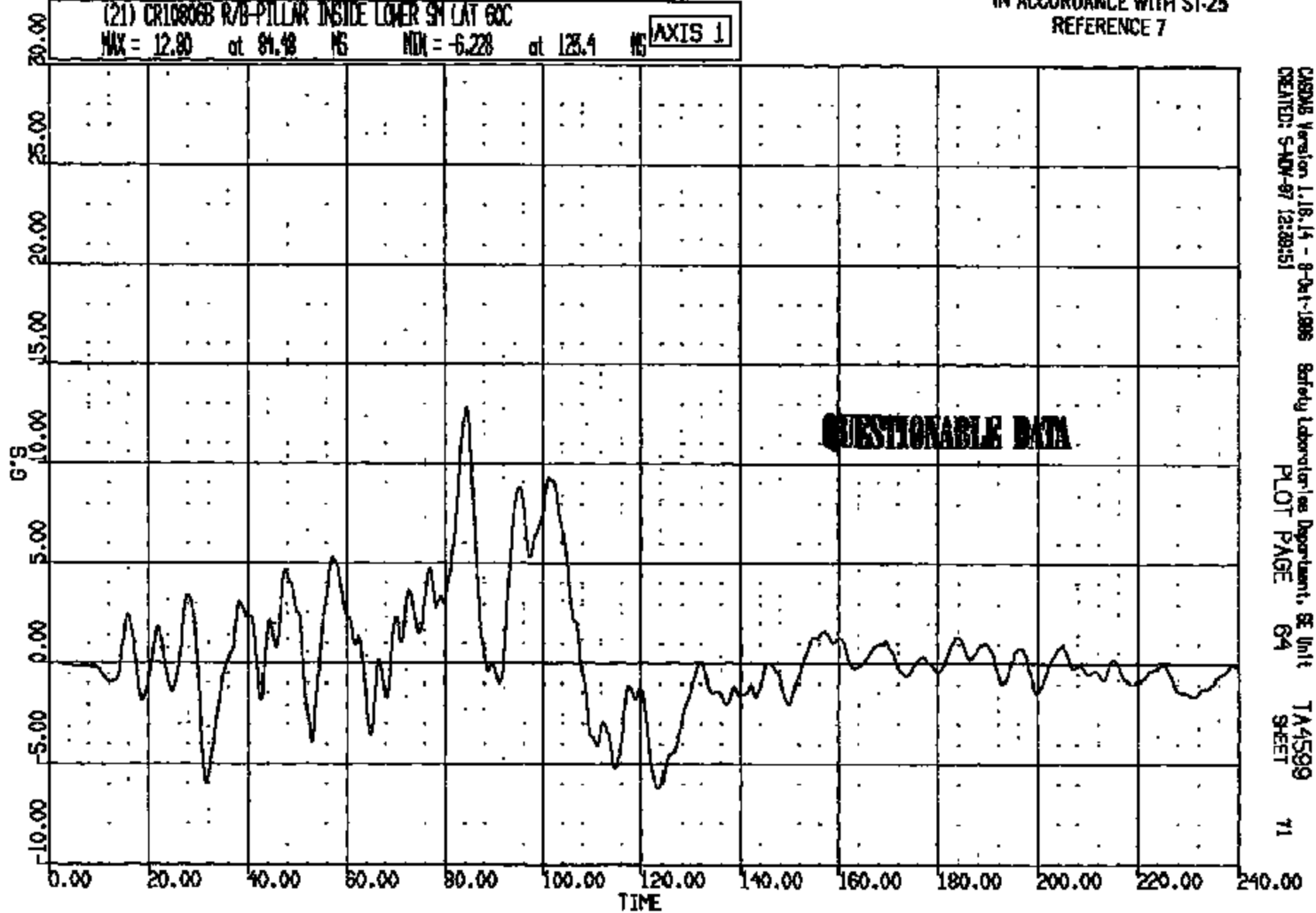
CR R: 10808 TO: TA4599 DATE: 870821 09:51:21  
199X DN-101 199X DN-101

TIME-ZERO CORRECTED  
IN ACCORDANCE WITH ST-25  
REFERENCE 7

(21) CR10806B R/B-PILLAR INSIDE LOWER SH LAT 60C

MAX = 12.80 at 84.48 NS MIN = -6.228 at 123.4 NS

AXIS 1



CRSDB Version 1.18.14 - 8-Oct-1988  
CREATED: S-MW-87 12:28:51

Safety Laboratories Department, GE Unit  
PLOT PAGE 64

TA4599  
SHEET

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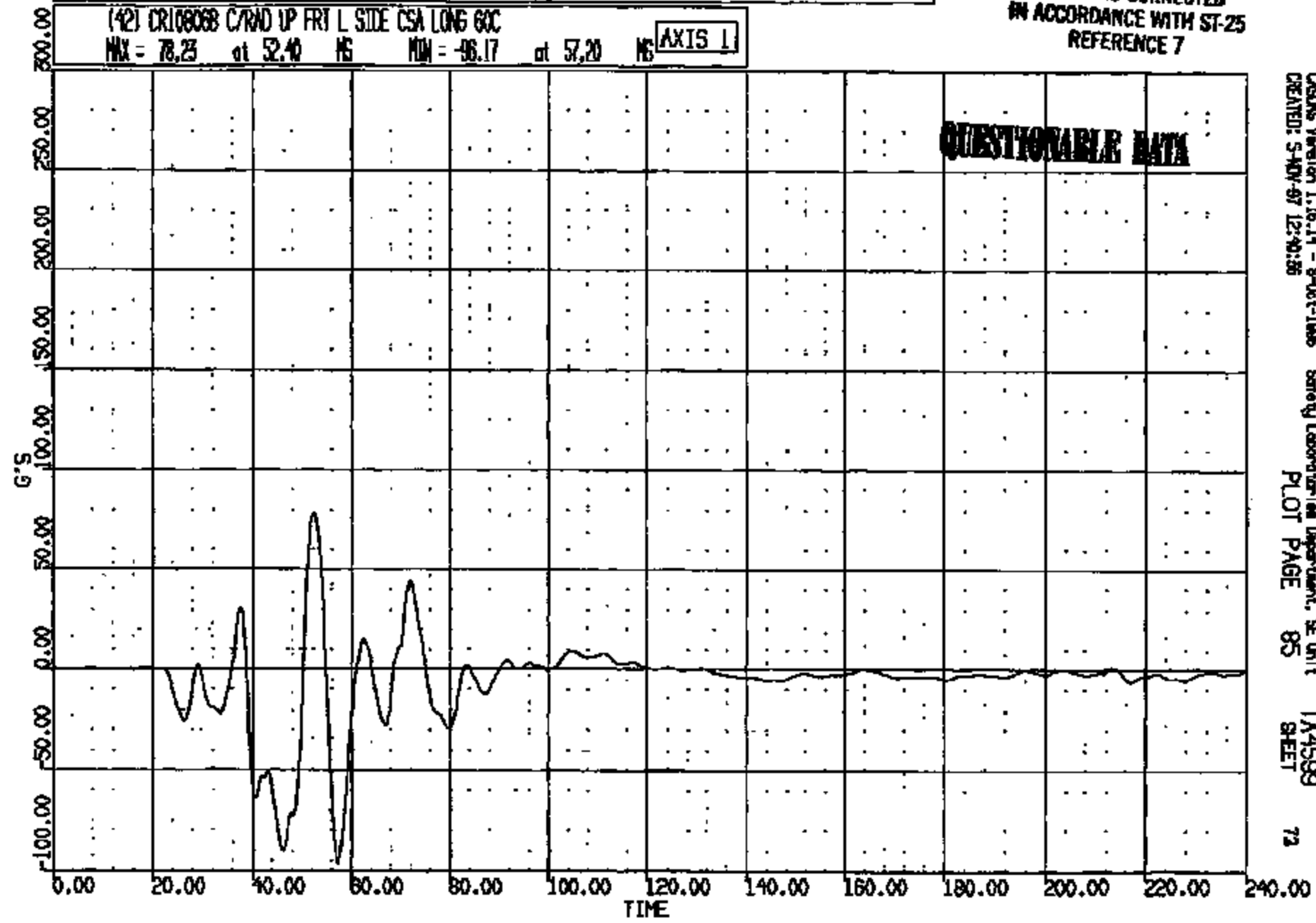
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CR #: 10808 TO: TA4598 DATE: 970821 09:31:21  
199X DN-101 199X DN-101

TIME-ZERO CORRECTED  
IN ACCORDANCE WITH ST-25  
REFERENCE 7

(42) CR108088 C/RND UP FRT L SIDE CSA LONG 60C  
MAX = 78.23 at 52.40 MS MIN = -96.17 at 57.20 MS **AXIS 1**

**QUESTIONABLE DATA**



CRSIS Version 1.16-14 - 8-Oct-1988 Safety Laboratory Department, SE Unit TA4598  
CREATED: 5-NOV-97 12:40:55 PLOT PAGE 85 SHEET 72

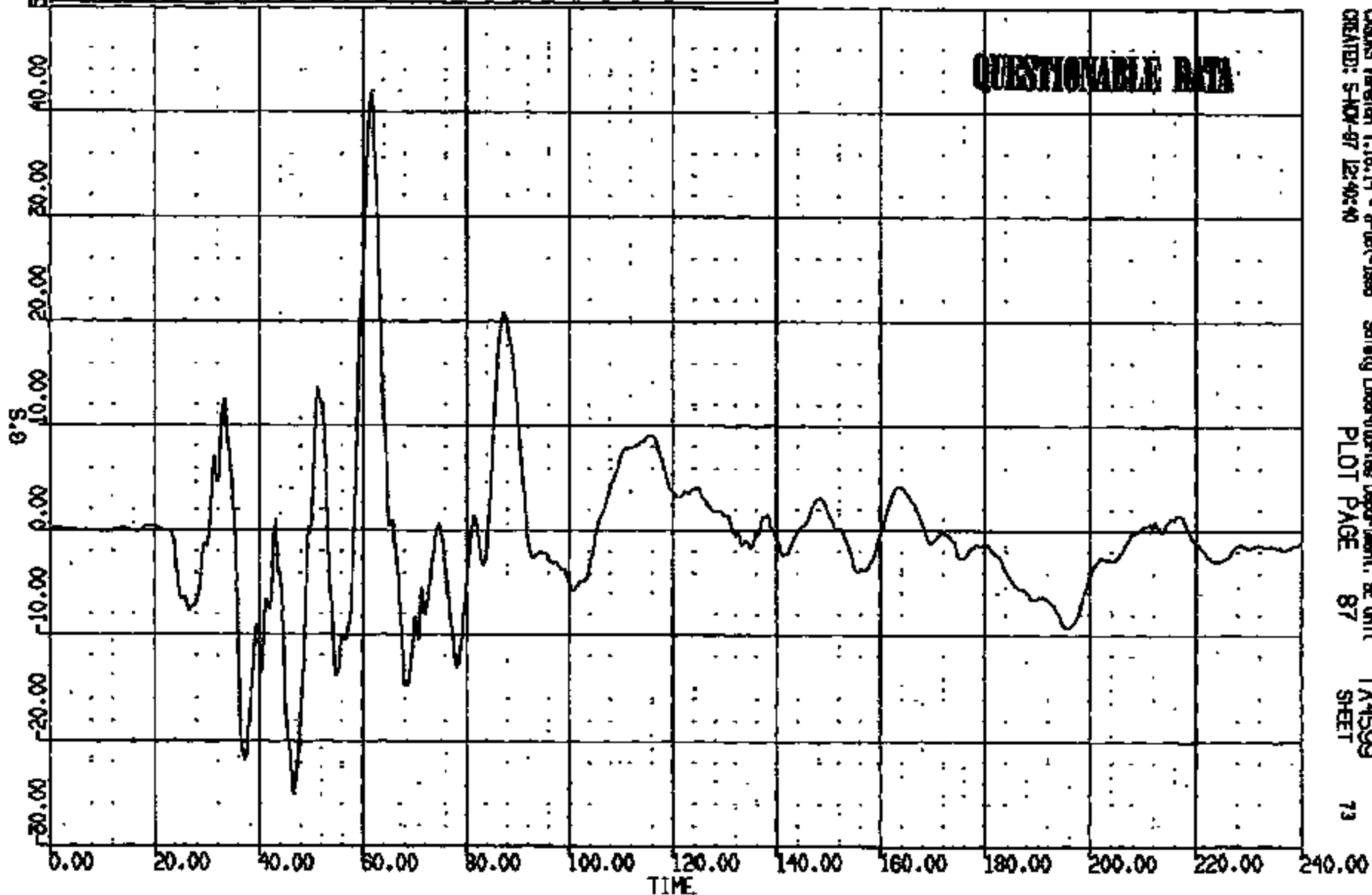
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CR R: 10808 TO: TA4599 DATE: 870821 08:51:21  
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TIME-ZERO CORRECTED  
IN ACCORDANCE WITH ST-25  
REFERENCE 7

(44) CR100068 C/RAD UP FRT L. SIDE CSA LAT 60C  
MAX = 41.62 at 61.76 MS MIN = -25.25 at 46.72 MS **AXIS 1**

**QUESTIONABLE DATA**



CRAMS Version 1.16.14 - 8-06-1988  
CREATED: 5-NOV-87 12:40:40

Safety Laboratories Department, BE Unit  
PLOT PAGE 87

TA4599  
SHEET

73

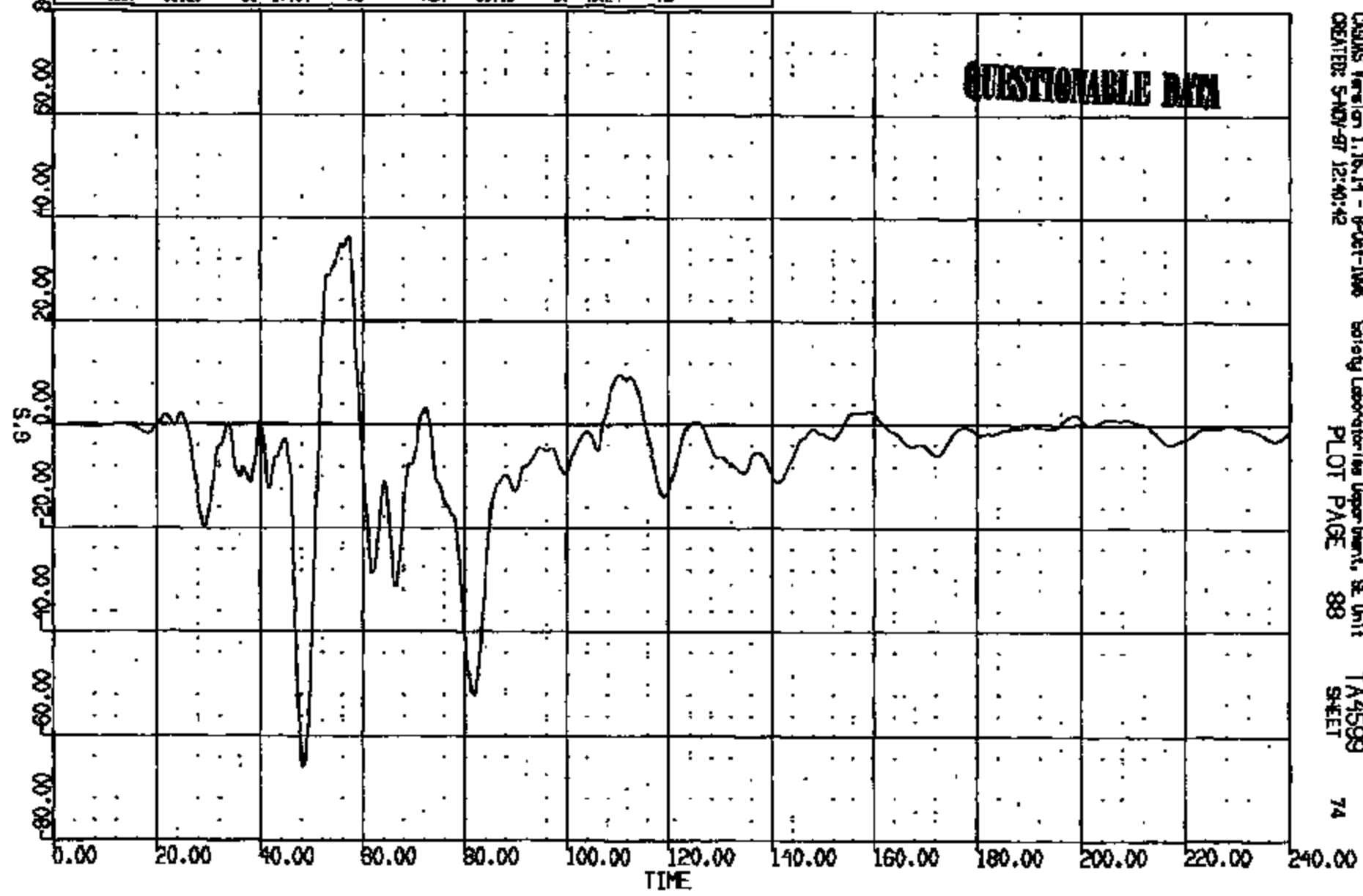
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CR R: 10808 TC: TA4599 DATE: 070821 09:31:21  
100X DN-101 100X DN-101

TIME-ZERO CORRECTED  
IN ACCORDANCE WITH ST-25  
REFERENCE 7

(45) CR100068 C/RAD LP FRT R SIDE CSA LONG 60C  
MAX = 36.29 at 57.01 MS MIN = -66.03 at 48.21 MS **AXIS 1**

**QUESTIONABLE DATA**



CRSIS Version 1.16.14 - 8-Oct-1998 Safety Laboratories Department, SE Unit TA4599  
CREATED: 5-MAY-97 12:40:42 PLOT PAGE 88 SHEET 74

CRTS 0010806

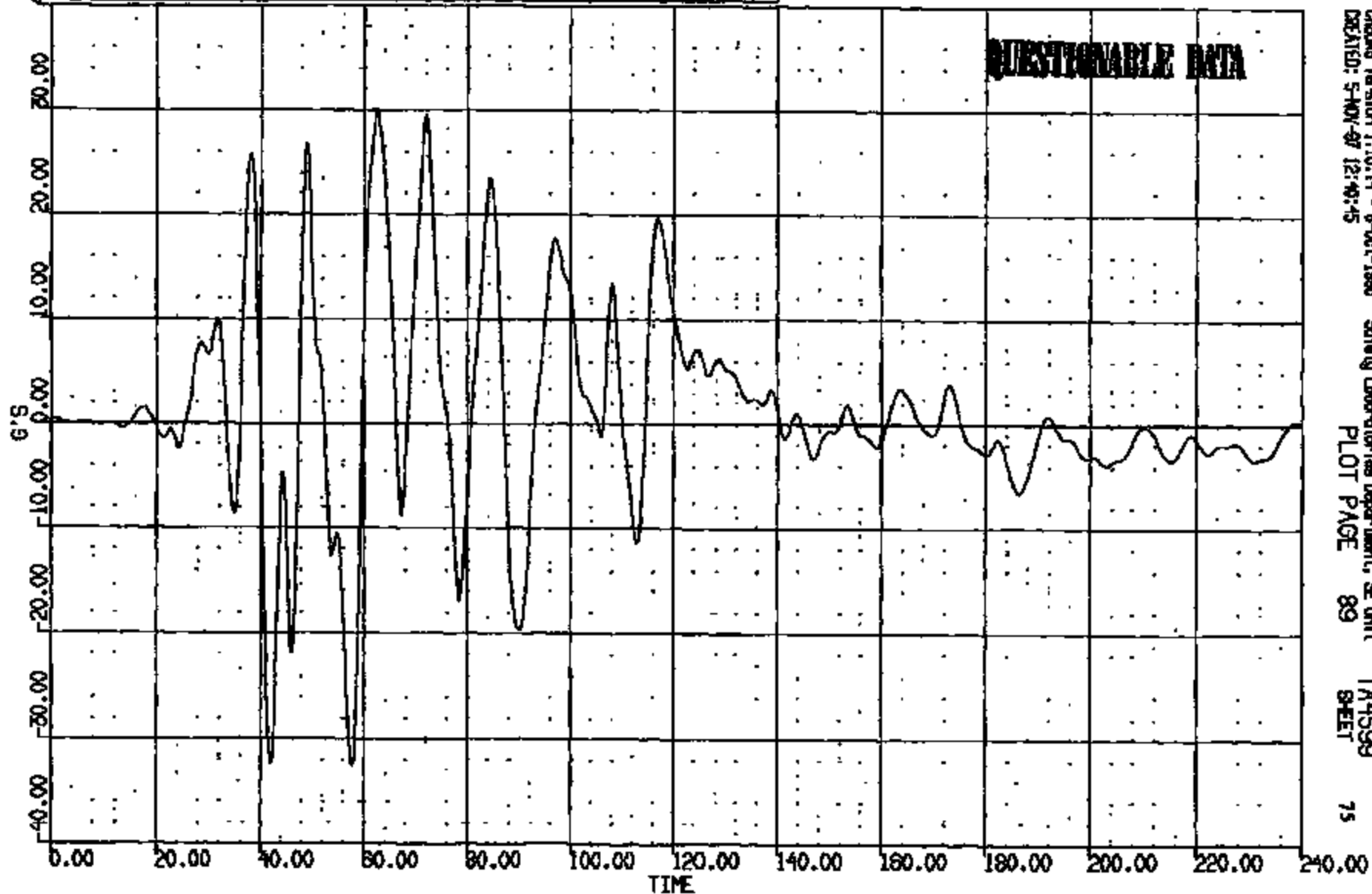
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TIME-ZERO CORRECTED  
IN ACCORDANCE WITH ST-25  
REFERENCE 7

(46) CR100068 C/RND UP FRT R SIDE CSA VERT 60C

MAX = 29.97 at 62.72 MS MIN = -32.80 at 57.84 MS **AXIS 1**

**QUESTIONABLE DATA**



CRSNG Version 1.18.14 - 8-06-1986  
CREATED: 5-NOV-87 12:40:45

Safety Laboratories Department, SE Unit  
PLOT PAGE 89

TA4599  
SHEET

75

CRTS 0010806

CR R: 10809 TO: TA4599 DATE: 970821 09:31:21  
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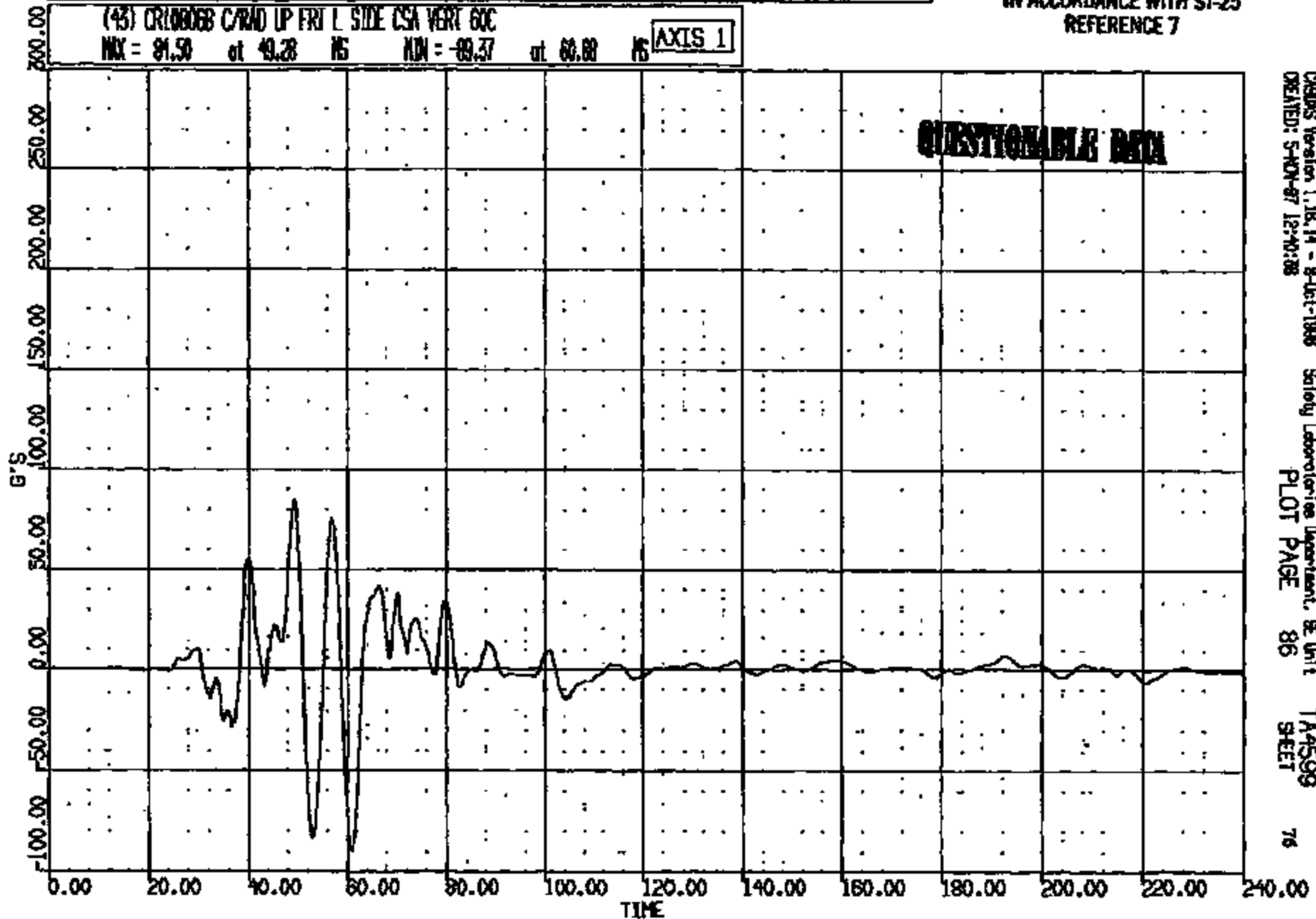
TIME-ZERO CORRECTED  
IN ACCORDANCE WITH ST-25  
REFERENCE 7

(43) CR10809B C/RAD UP FRT L SIDE CSA VERT 60C

MAX = 81.50 at 49.28 MS MIN = -89.37 at 60.88 MS

AXIS 1

QUESTIONABLE DATA



CRSIS Version 1.18.14 - 8-Oct-1988  
CREATED: 5-AUG-87 12:40:38

Safety Laboratories Department, BE Unit  
PLOT PAGE 86

TA4599  
SHEET

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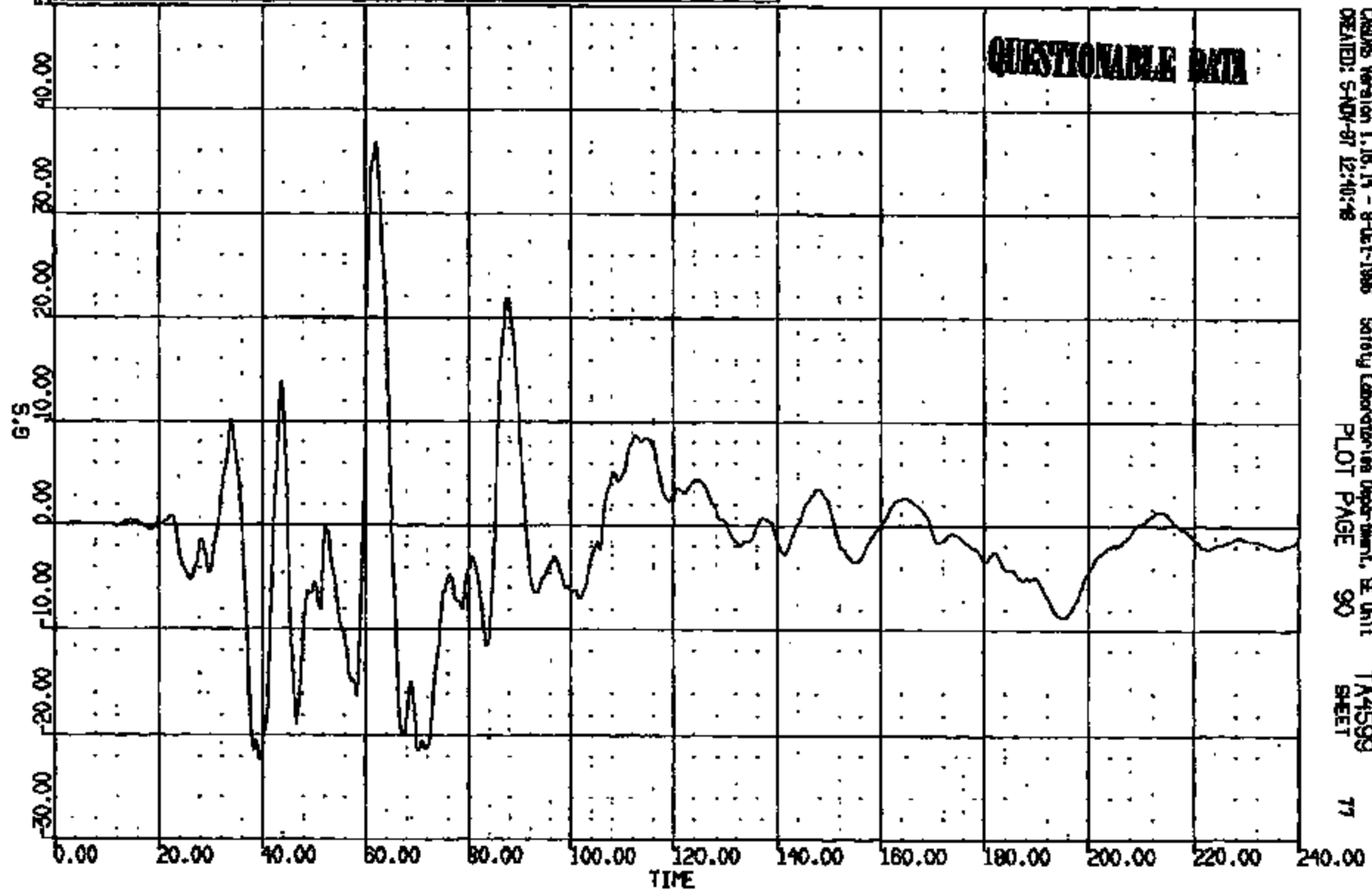


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199X DN-101 199X DN-101

TIME-ZERO CORRECTED  
IN ACCORDANCE WITH SI-25  
REFERENCE 7

(47) CR108068 CARAD UP FRT R SIDE CSA LAT 60C  
MAX = 35.82 at 62.16 MS MIN = -22.50 at 39.52 MS **AXIS 1**

QUESTIONABLE DATA



CRS05 Version 1.16.14 - 8-Oct-1986 Safety Laboratories Department, E Unit TA4599  
CREATED: SAND-87 12:40:48 PLOT PAGE 90 SHEET 77

CRTS 0010806

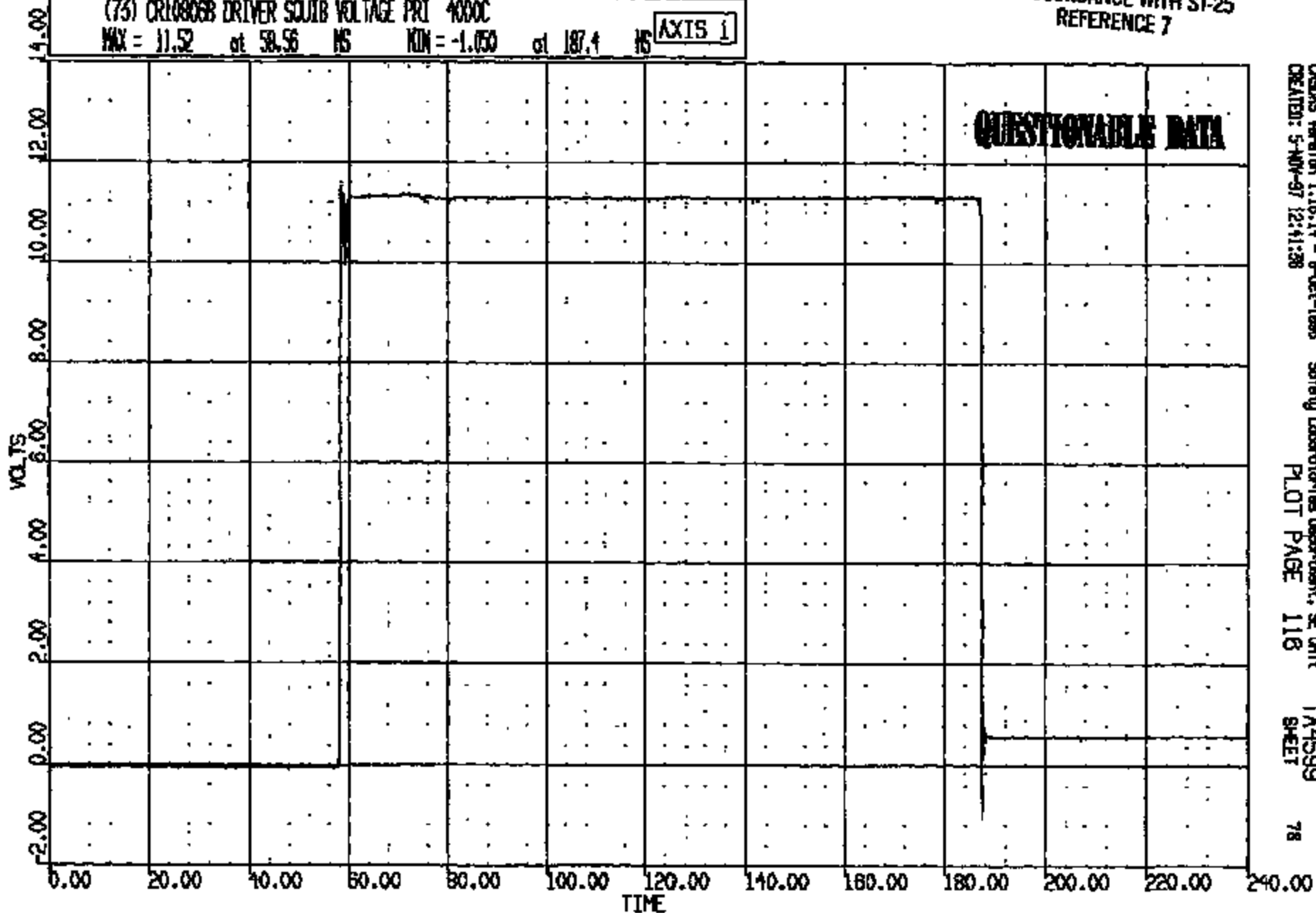
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199X DN-101 199X DN-101

TIME-ZERO CORRECTED  
IN ACCORDANCE WITH ST-25  
REFERENCE 7

(75) CR10806B DRIVER SOLID VOLTAGE PRI 4000C

MAX = 11.52 at 58.56 NS MIN = -1.050 at 187.4 NS

AXIS 1



CGSRS Version 1.16.14 - 8-Oct-1998  
CREATED: 5-NOV-97 12:41:38

Safety Laboratories Department, SE Unit

PL0T PAGE 118 SHEET

78

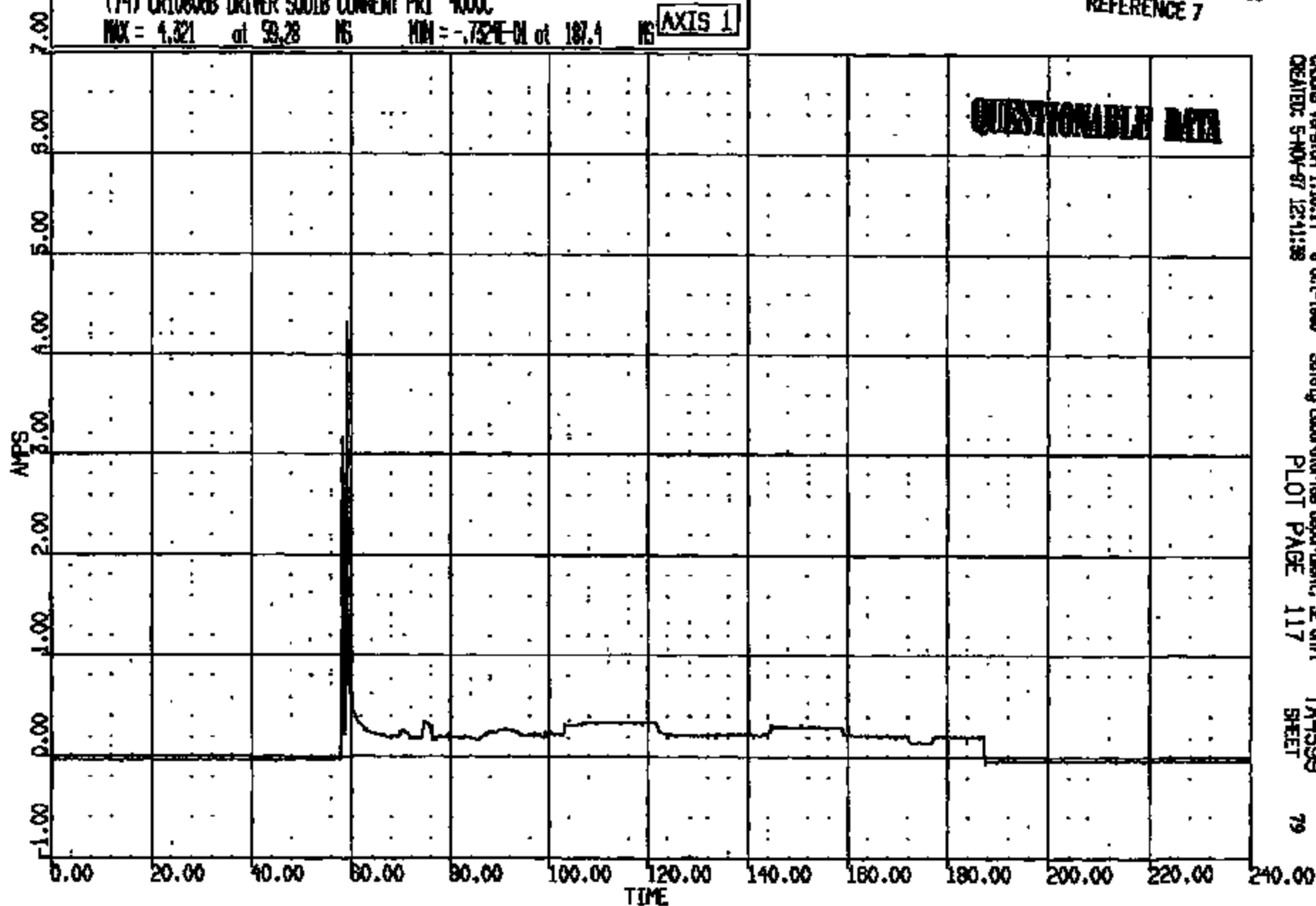
CR R: 10808 TO: TA4599 DATE: 970821 09:31:21  
199X DN-101 199X DN-101

TIME-ZERO CORRECTED  
IN ACCORDANCE WITH ST-25  
REFERENCE 7

(74) CR10808B DRIVER SOUTH CURRENT PRI 4000C

MAX = 4.321 at 59.28 MS MIN = -.752E-01 at 187.4 MS

AXIS 1



CRS08 Version 1.16.14 - 8-Oct-1999  
CREATED: 5-N04-97 12:41:38

Safety Laboratories Department, SE Unit  
PLOT PAGE 117

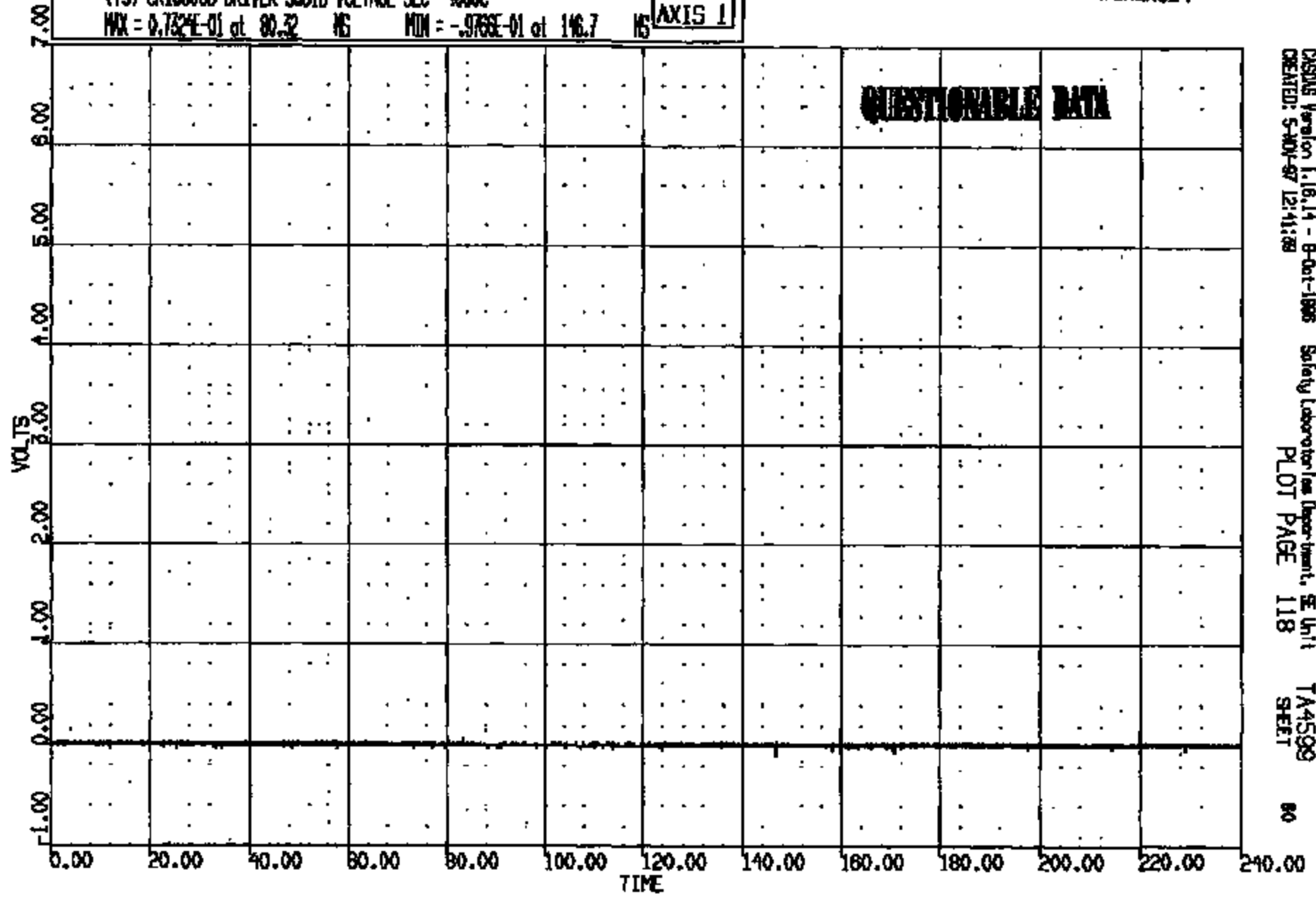
TA4599  
SHEET

79

CR R: 10806 TO: TA4599 DATE: 970821 09:31:21  
199X DN-101 199X DN-101

TIME-ZERO CORRECTED  
IN ACCORDANCE WITH ST-25  
REFERENCE 7

(75) CR100068 DRIVER SOUTB VOLTAGE SEC 4000C  
MAX = 0.7524E-01 at 80.32 NS MIN = -.9769E-01 at 146.7 NS **AXIS 1**



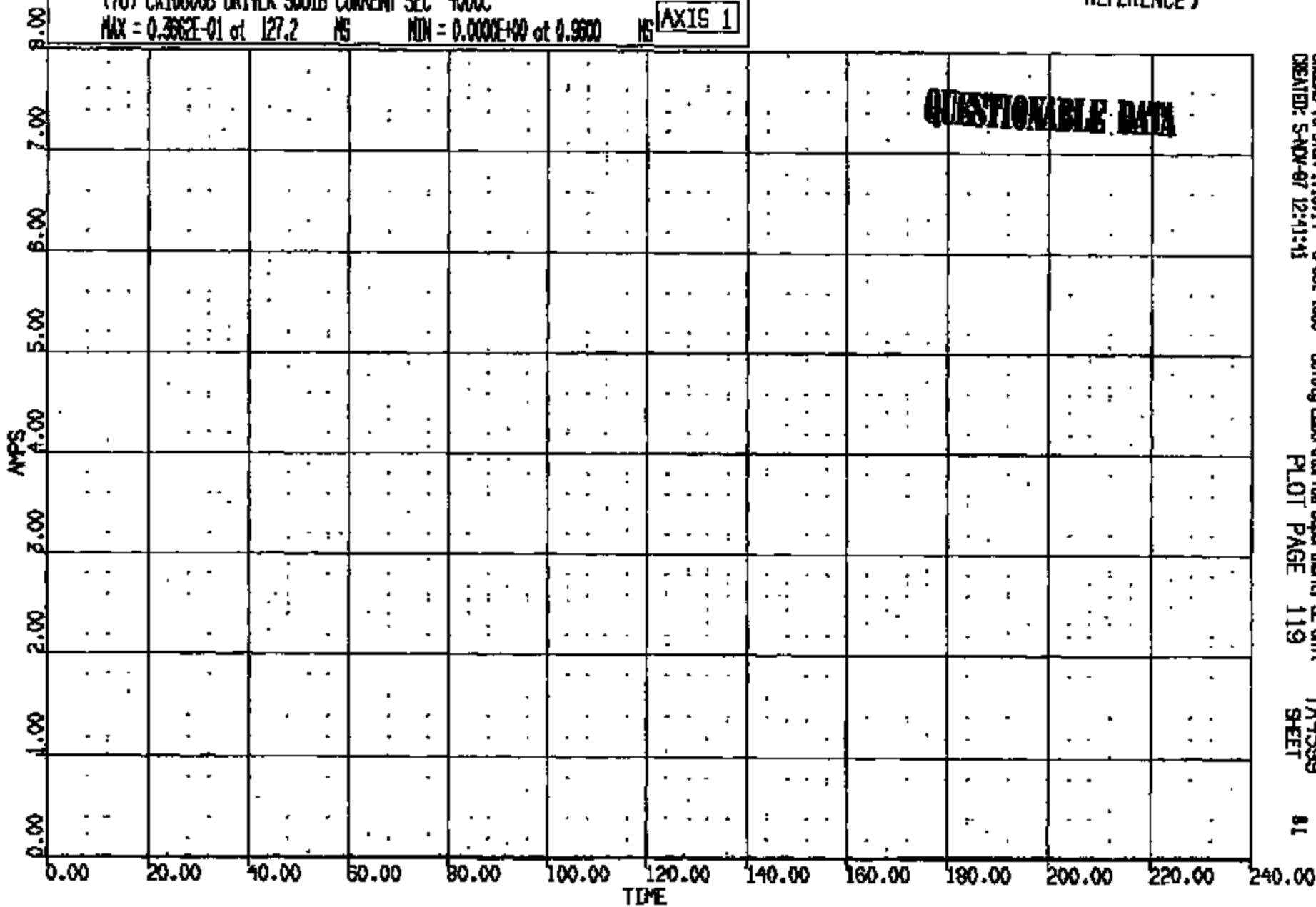
CASDAQ Version 1.16.14 - 8-Oct-1996 Safety Laboratory/In Department, SE Unit TA4599  
CREATED: 5-MAY-97 12:41:59 PLOT PAGE 118 SHEET 80

CRTS 0010806

CR R: 10806 TO: TA4599 DATE: 870821 09:51:21  
199X DN-101 199X DN-101

TIME-ZERO CORRECTED  
IN ACCORDANCE WITH ST-25  
REFERENCE 7

(76) CR100063 DRIVER SOLID CURRENT SEC 4000C  
MAX = 0.3662E-01 at 127.2 NS MIN = 0.0000E+00 at 0.9600 NS **AXIS 1**



CASDS Version 1.16.14 - 9-Oct-1985 Safety Laboratories Department, SE Unit TA4599  
CREATED: 5-NOV-87 12:41:41 PLOT PAGE 119 SHEET 01

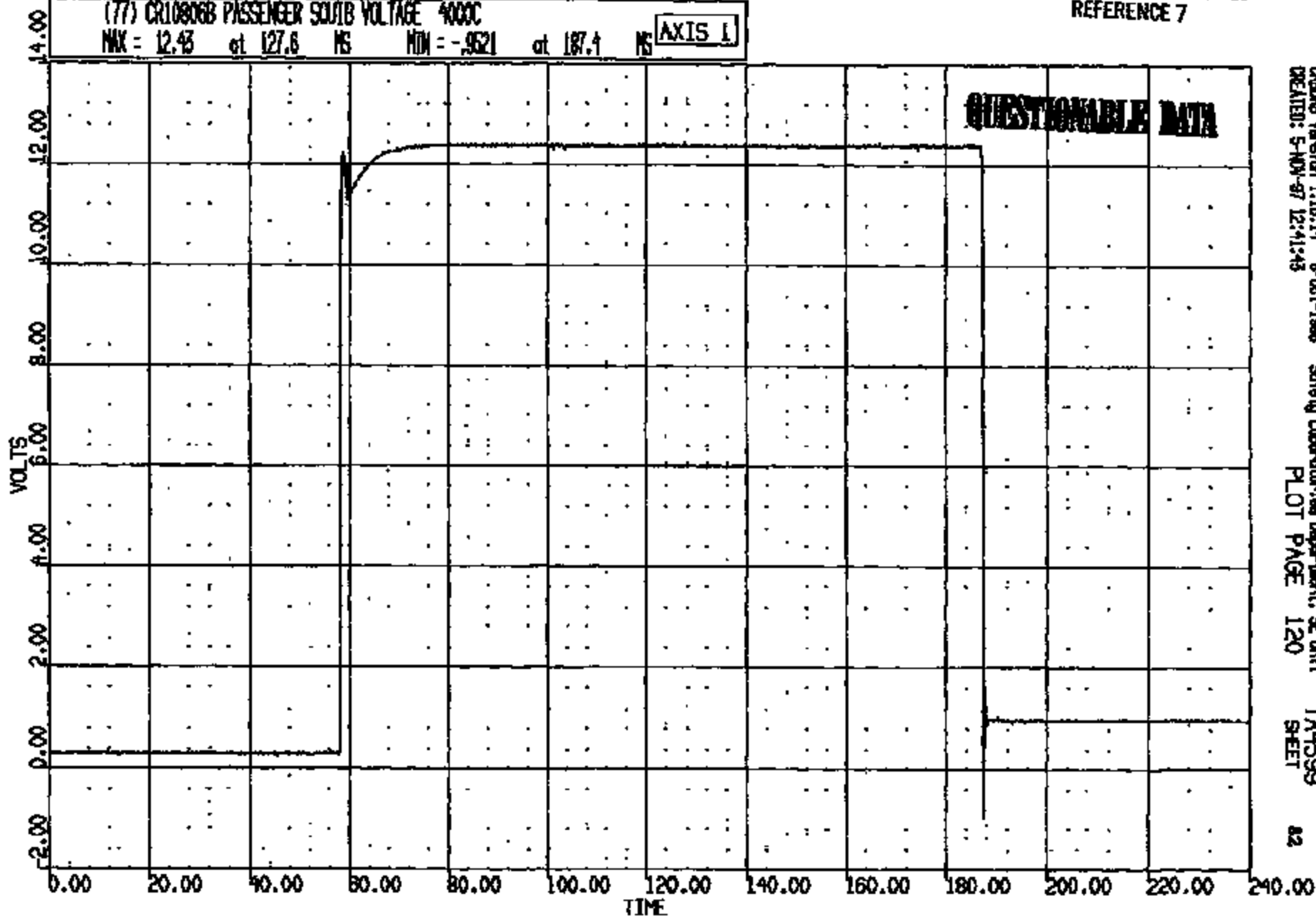
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199X DN-101 199X DN-101

TIME-ZERO CORRECTED  
IN ACCORDANCE WITH ST-25  
REFERENCE 7

(77) CR10806B PASSENGER SQUIB VOLTAGE 4000C

MAX = 12.43 at 127.6 MS MIN = -.9521 at 187.1 MS

AXIS 1



CRSIS Version 1.18.14 - 8-01-1998  
CREATED: 5-NOV-97 12:41:43

Safety Laboratories Department, SE Unit  
PLOT PAGE 120

TA4599  
SHEET

82

CR R: 10808 TO: TA4599 DATE: 070821 06:51:21  
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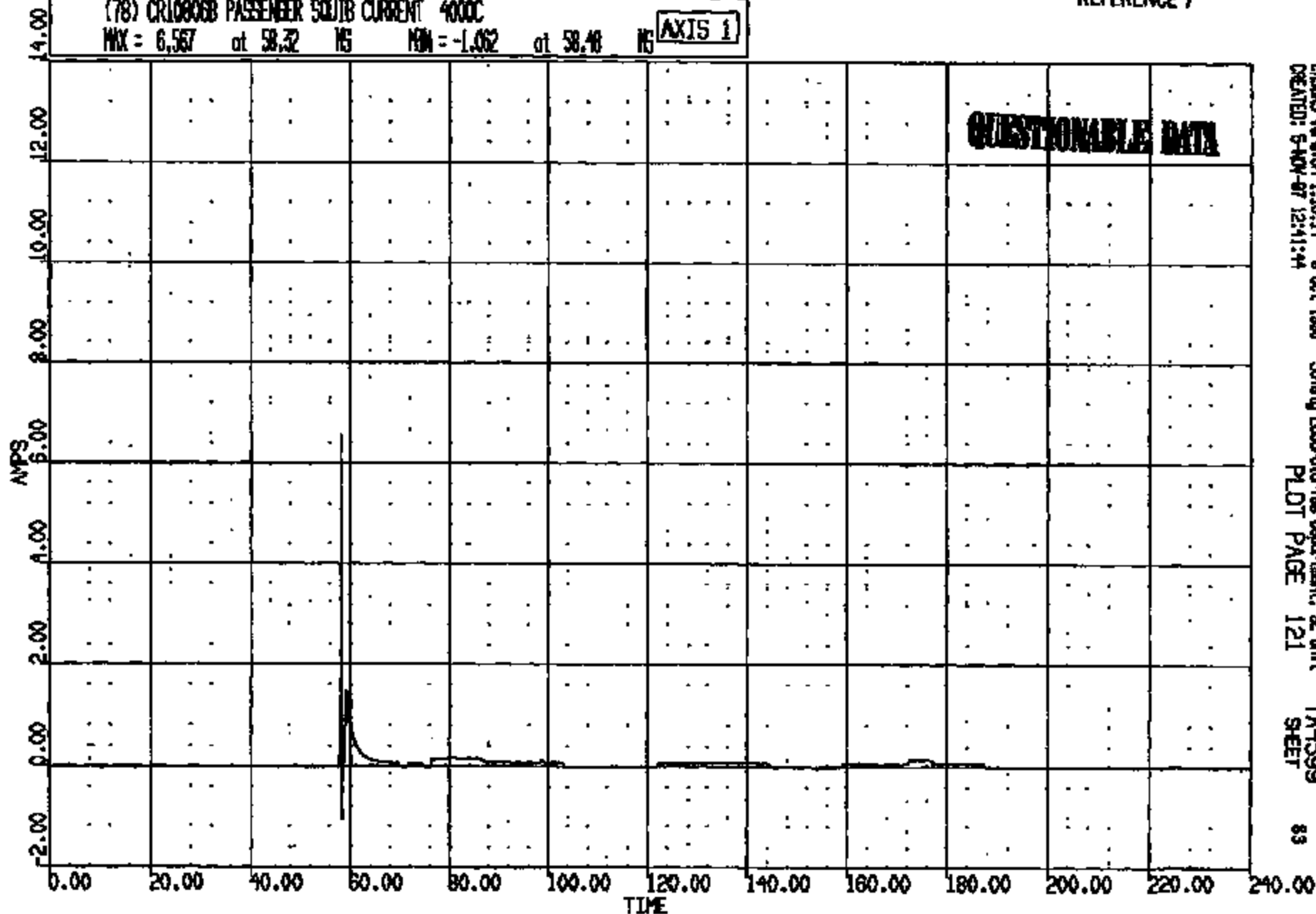
TIME-ZERO CORRECTED  
IN ACCORDANCE WITH ST-25  
REFERENCE 7

(78) CR10006B PASSENGER SOLID CURRENT 4000

MAX = 6.567 at 58.32 NS MIN = -1.062 at 58.40 NS

AXIS 1

QUESTIONABLE DATA



CR10006B Version 1.16.14 - 8-01-1999  
CREATED: 5-AUG-07 12:41:44

Safety Laboratories Department, BE Unit

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TA4599  
SHEET

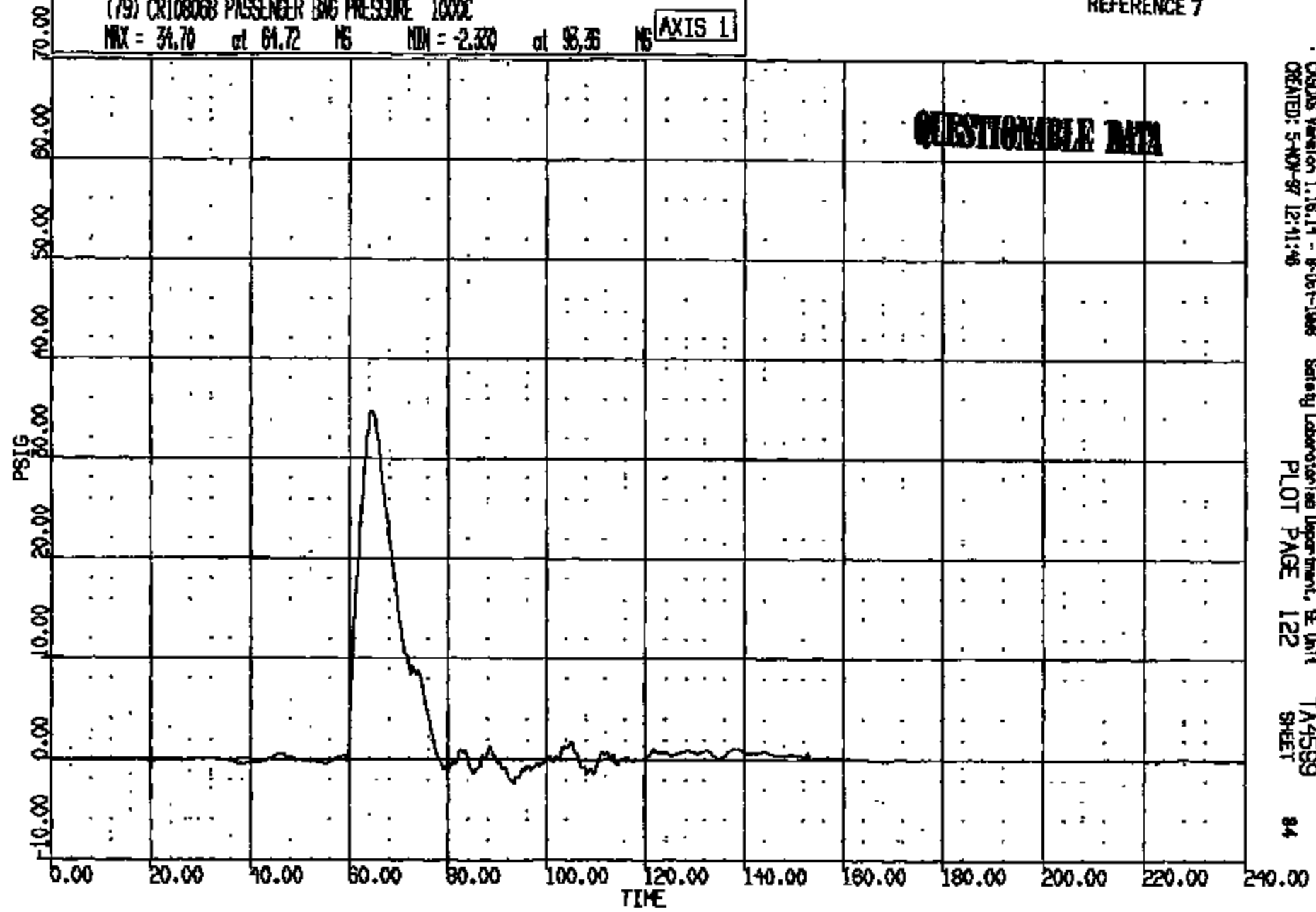
83

CR R: 10808 TO: TA4599 DATE: 070891 09:31:21  
199X DN-101 199X DN-101

TIME-ZERO CORRECTED  
IN ACCORDANCE WITH ST-25  
REFERENCE 7

(79) CR10806B PASSENGER BAG PRESSURE 1000C  
MAX = 34.70 at 64.72 MS MIN = -2.320 at 93.35 MS **AXIS 1**

**QUESTIONABLE DATA**



CASYS Version 1.16.14 - 8-04-1998 Safety Laboratories Department, GE Unit  
CREATED: 5-MAY-97 12:41:40 PLOT PAGE 122 SHEET 84

CRTS 0010806



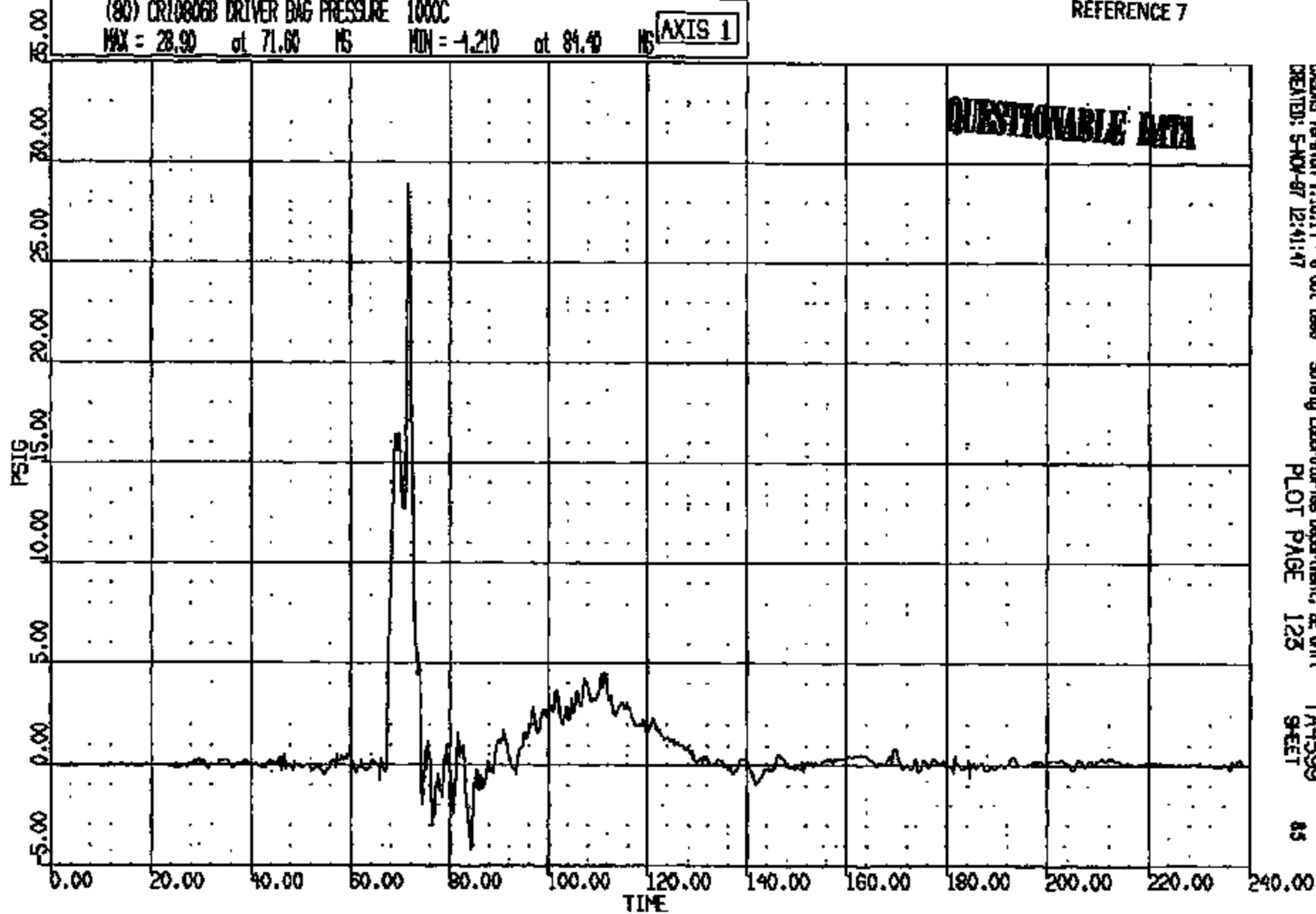
CR#: 10806 TO: TA4509 DATE: 870821 09:31:21  
199X DN-101 199X DN-101

TIME-ZERO CORRECTED  
IN ACCORDANCE WITH SI-25  
REFERENCE 7

(80) CR10806B DRIVER BAG PRESSURE 1000C  
MAX = 28.90 at 71.60 MS MIN = -4.210 at 84.40 MS

AXIS 1

QUESTIONABLE DATA



CRS05 Version 1.18.14 - 8-Oct-1988  
CREATED: 5-NOV-87 12:41:47

Safety Laboratories Department, SE Unit  
PLOT PAGE 123

TA4509  
SHEET

85

CRTS 0010806

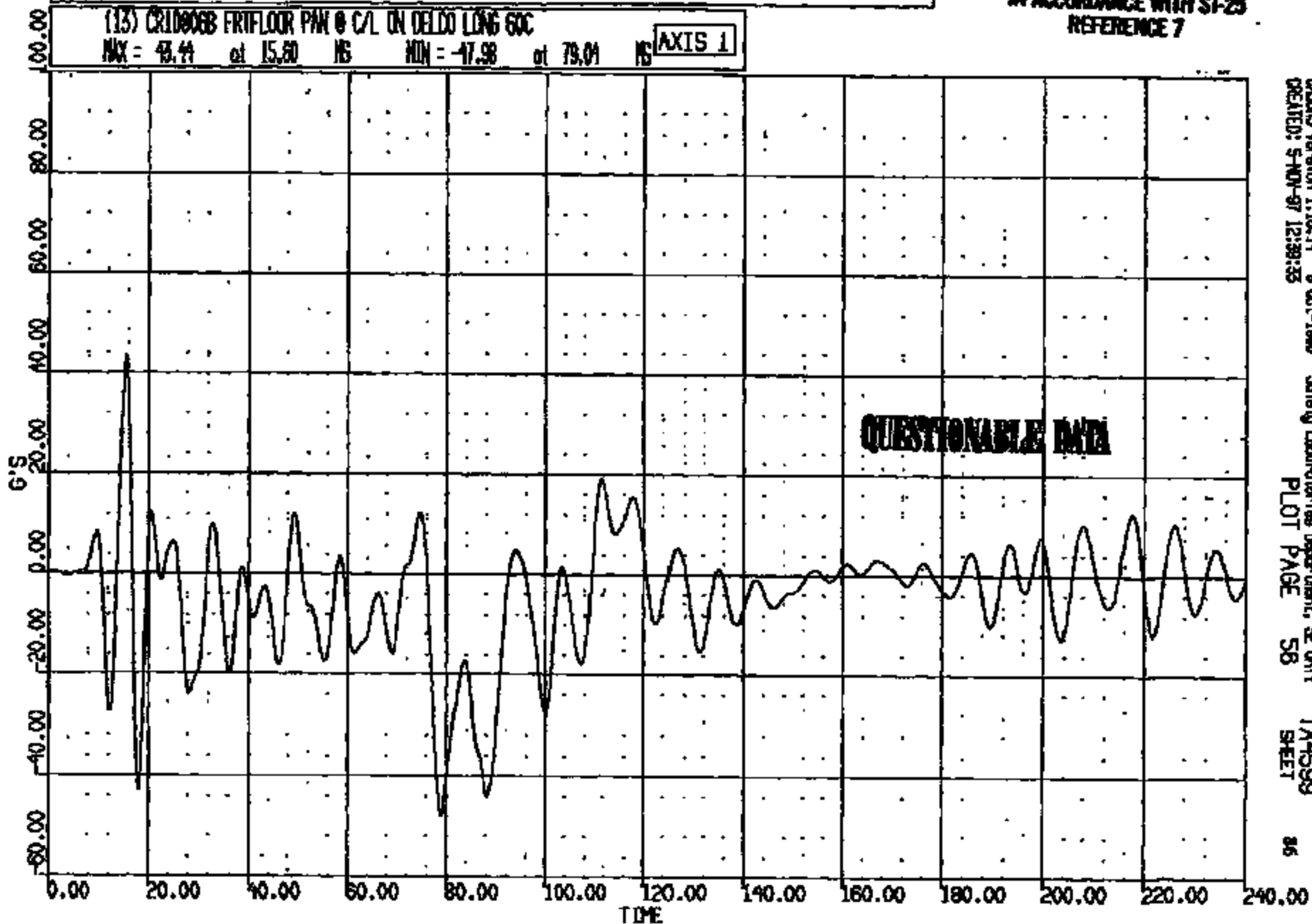
CR R: 10808 TO: TA4599 DATE: 970821 08:51:21  
189X DN-101 189X DN-101

TIME-ZERO CORRECTED  
IN ACCORDANCE WITH SF-25  
REFERENCE 7

(13) CR1000GB FRIFLOOR PAN @ C/L ON DELCO LONG SOC

MAX = 48.44 at 15.60 MS MIN = -47.98 at 79.01 MS

AXIS 1



CRSIS Version 1.18.14 - 8-06-1998  
CREATED: 5-N01-97 12:39:35

Safety Laboratories Department, SE Unit

PLOT PAGE

58

TA4599  
SHEET

86

CRIS 0010806

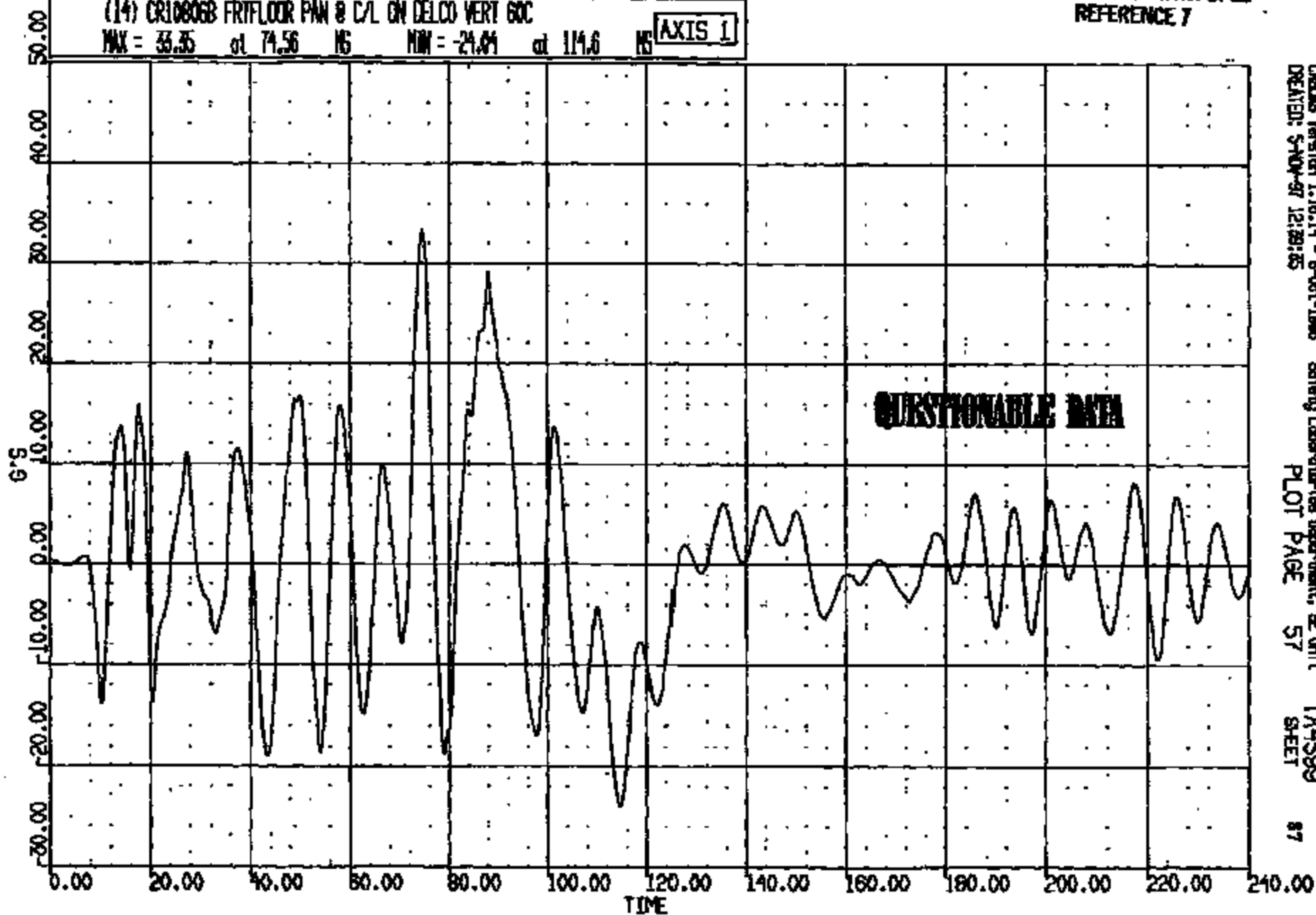
CR R: 10808 TD: TA4599 DATE: 970821 09:31:21  
100X DN-101 100X DN-101

TIME-ZERO CORRECTED  
IN ACCORDANCE WITH SF-25  
REFERENCE 7

(14) CR10808B FRIFLOOR PAV @ C/L ON DELCO VERT 60C

MAX = 35.35 at 74.56 MS MIN = -24.04 at 114.6 MS

AXIS 1



CASUS Version 1.18.14 - 8-Oct-1999  
CREATED: 5-Nov-97 12:29:25

Safety Laboratories Department, E Unit

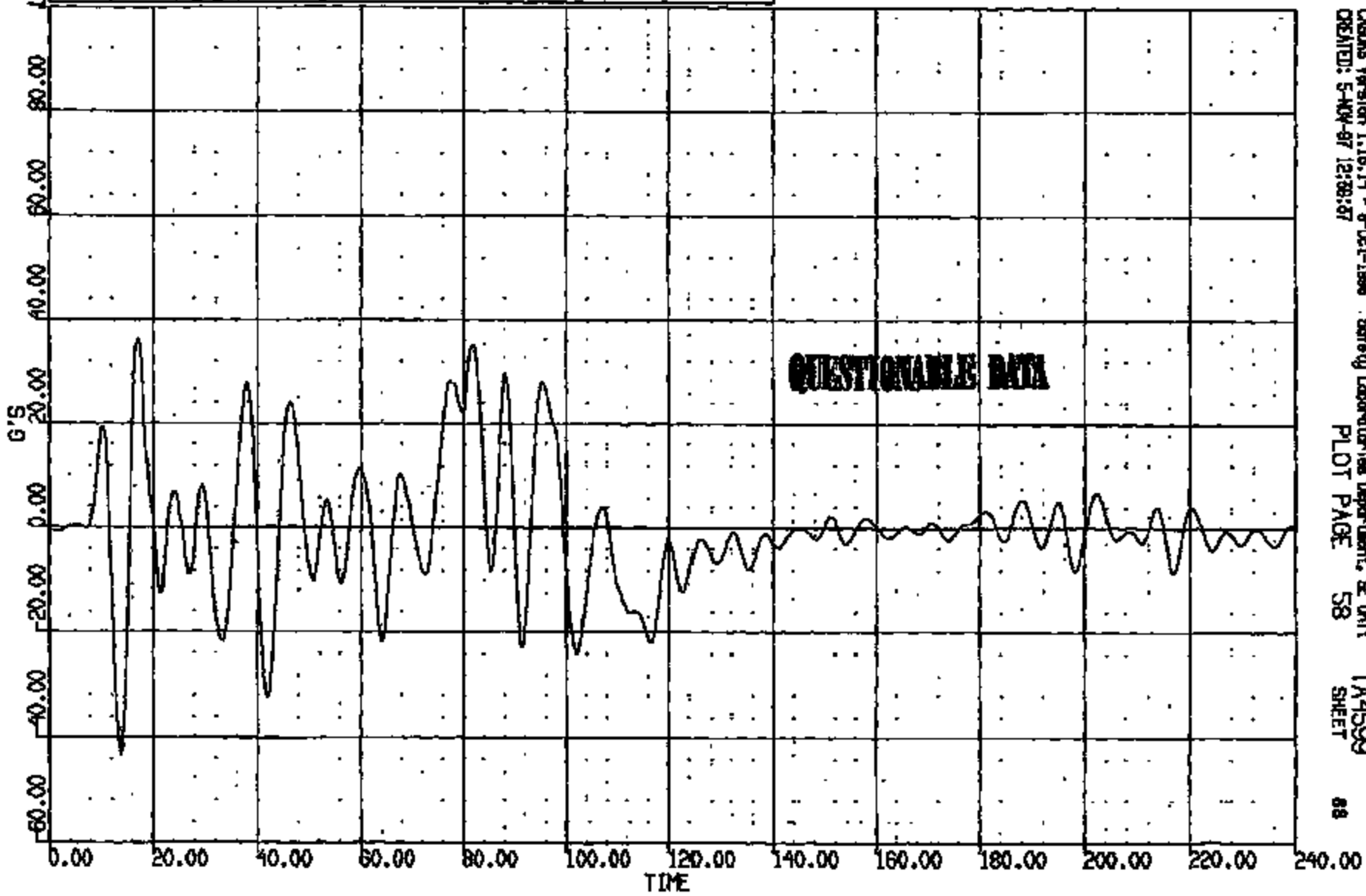
PLOT PAGE 57 SHEET

87

CR R: 10808 TO: TA4599 DATE: 970821 08:31:21  
199X DN-101 199X DN-101

TIME-ZERO CORRECTED  
IN ACCORDANCE WITH ST-25  
REFERENCE 7

(15) CR108068 FRTFLDR PAN @ C/L ON DELCO LAT 60C  
MAX = 35.27 at 17.12 MS MIN = -43.47 at 13.84 MS **AXIS 1**



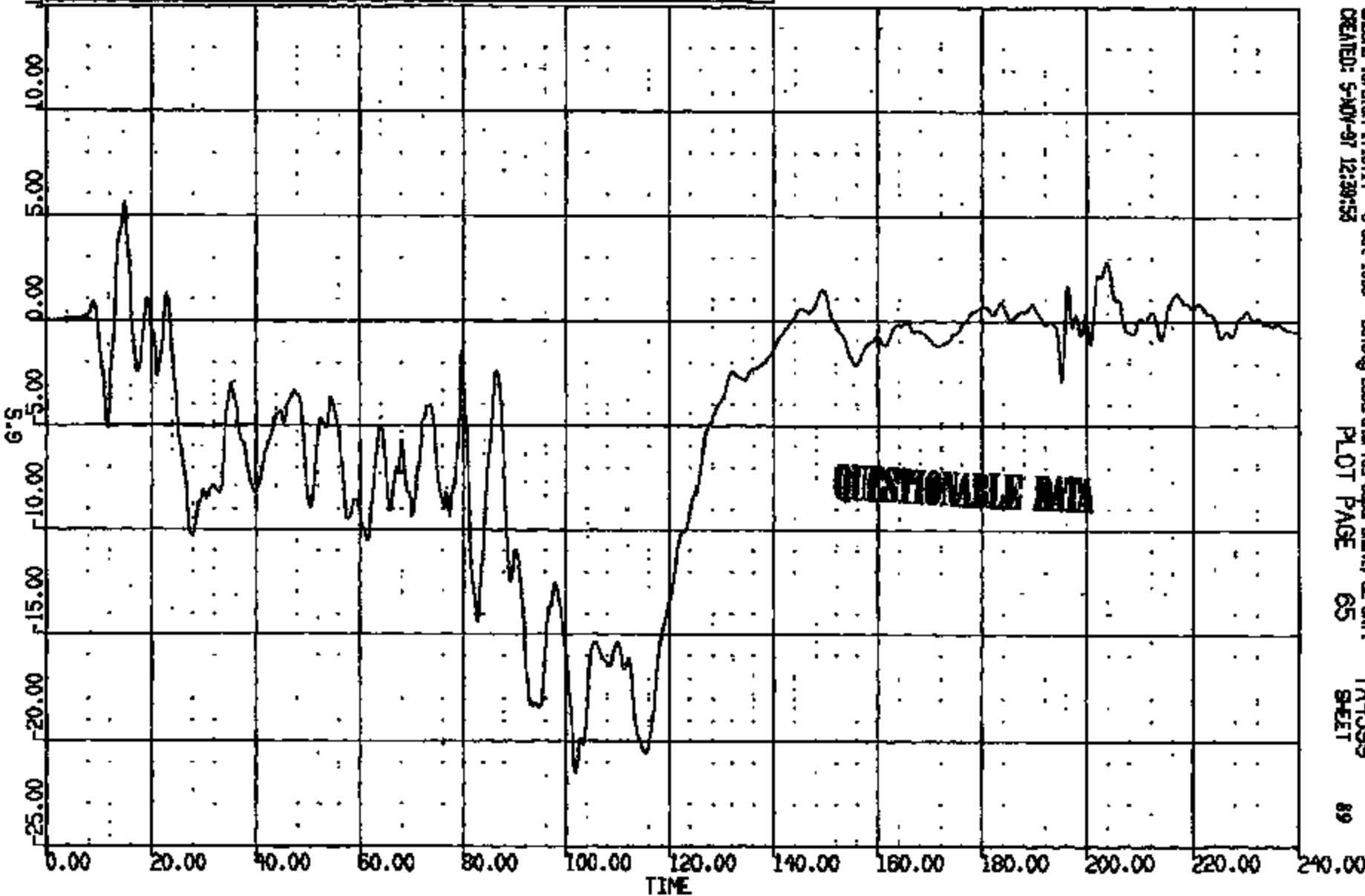
CADNAS Version 1.16.14 - 8-Oct-1998 Safety Laboratories Department, SE Unit TA4599  
CREATED: 5-NOV-97 12:30:57 PLOT PAGE 58 SHEET 88

CRTS 0010806

CR R: 10806 TO: TA4599 DATE: 970221 09:51:21  
199X DN-101 199X DN-101

TIME-ZERO CORRECTED  
IN ACCORDANCE WITH SI-25  
REFERENCE 7

(22) CR108068 C/L TNL BETWEEN F/SEATS SH LONG GOC  
MAX = 5.043 at 14.96 MS MIN = -21.50 at 101.8 MS **AXIS 1**



CRSIS Version 1.16.14 - 9-Oct-1996 Safety Laboratories Department, BE Unit: TA4599  
CREATED: 5-MAY-97 12:39:53 PLOT PAGE 65 SHEET 89

CRIS 0010806

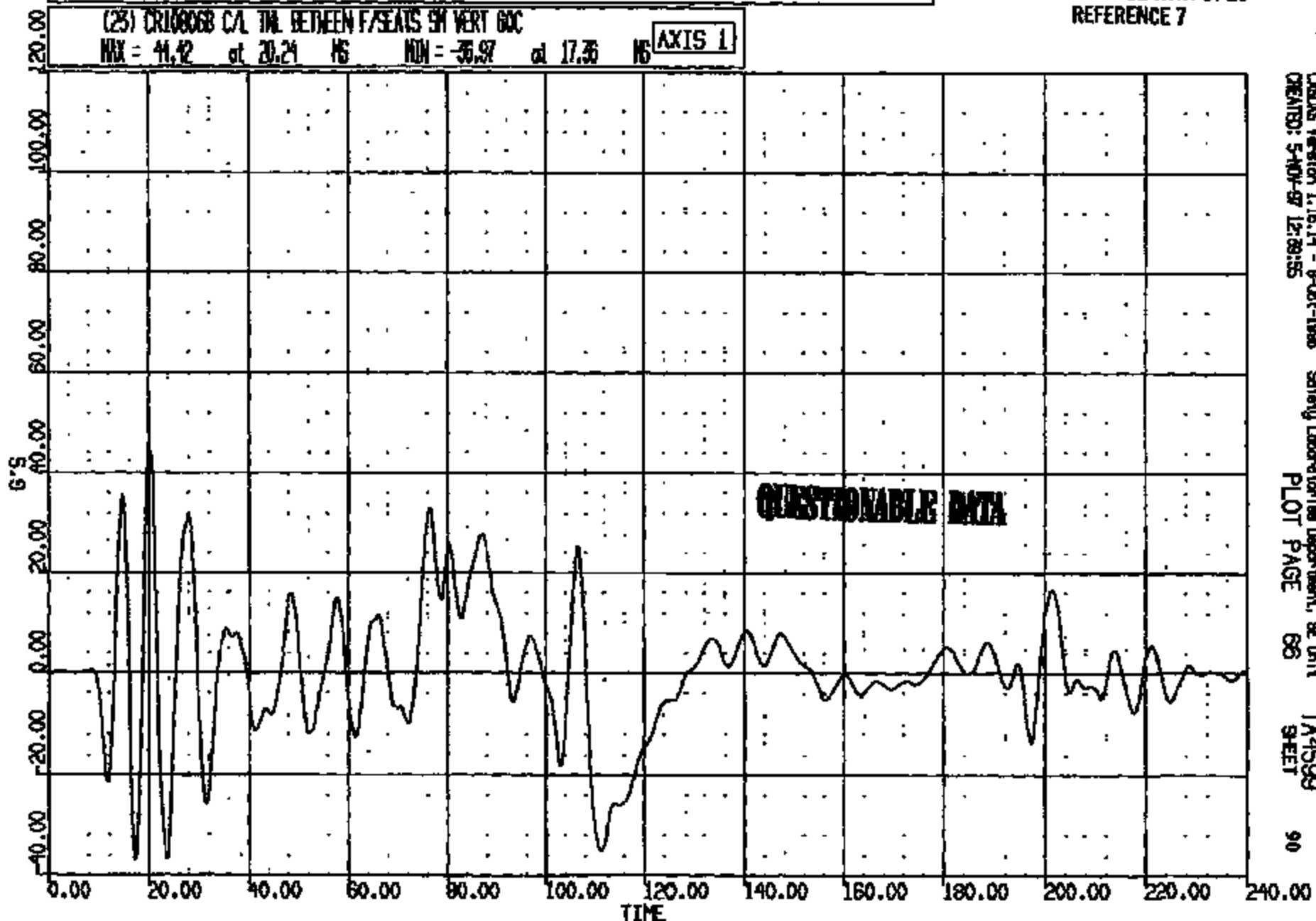
CR R: 10808 TO: TA4599 DATE: 970821 09:31:21  
199X DN-101 199X DN-101

TIME-ZERO CORRECTED  
IN ACCORDANCE WITH ST-25  
REFERENCE 7

(25) CR1000GB C/L TML BETWEEN F/SEATS SH VERT GOC

MAX = 41.42 at 20.24 MS MIN = -35.97 at 17.35 MS

AXIS 1



CRSIS Version 1.18.14 - 9-Oct-1998 Safety Laboratories Department, BE Unit TA4599  
CREATED: 5-MAY-97 12:39:55 PLOT PAGE 66 SHEET 90

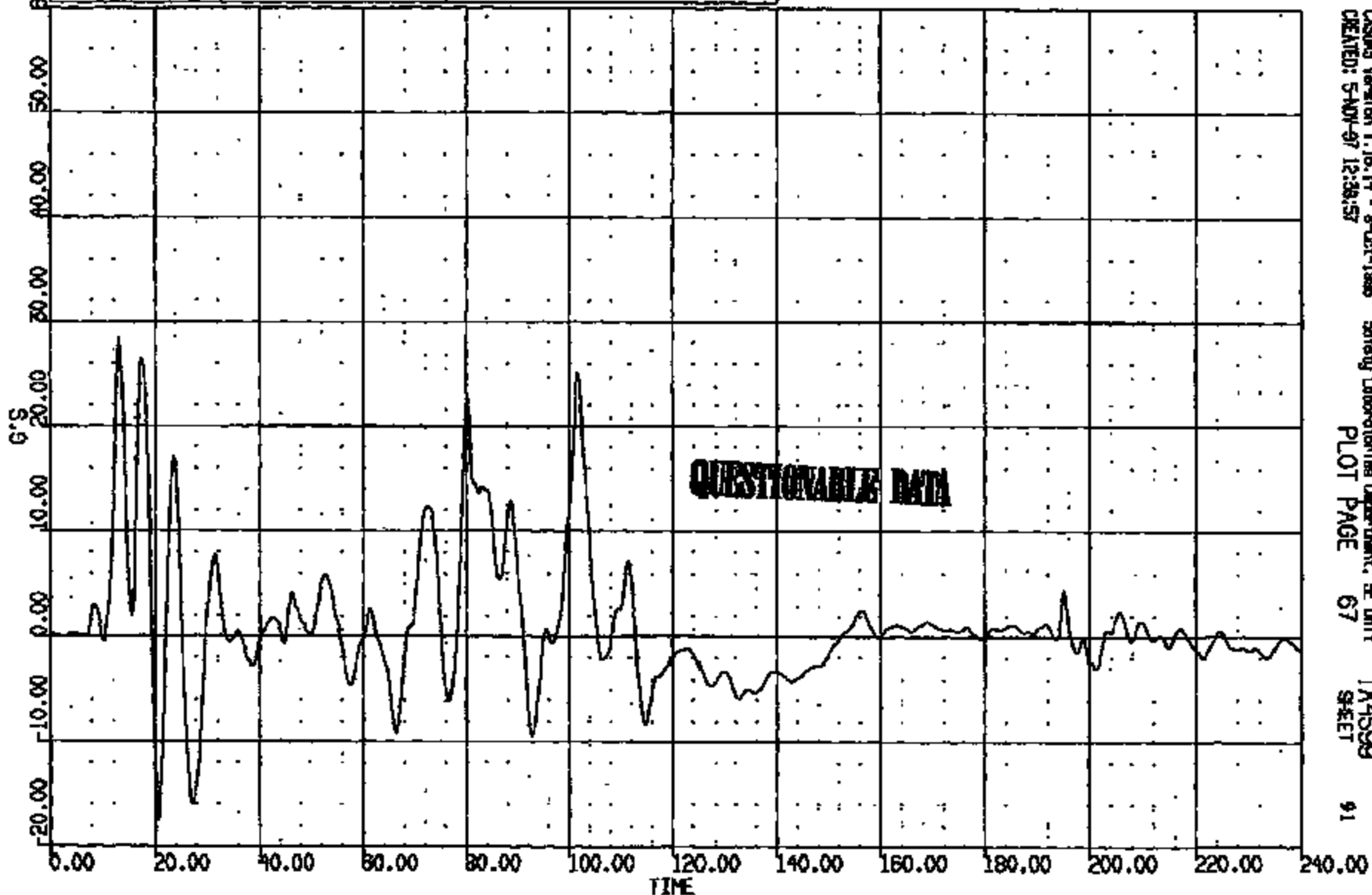
CR R: 10806 TO: TA4599 DATE: 870821 08:31:21  
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TIME-ZERO CORRECTED  
IN ACCORDANCE WITH SI-25  
REFERENCE 7

(24) CR10806B C/L TNL BETWEEN F/SEATS SH LAT 60C

MAX = 28.46 at 13.20 MS MIN = -17.97 at 20.72 MS

AXIS 1



CASINS Version 1.16.14 - 8-Oct-1988  
CREATED: 5-AUG-87 12:38:57

Safety Laboratories Department, E Unit

PLOT PAGE 67

TA4599  
SHEET

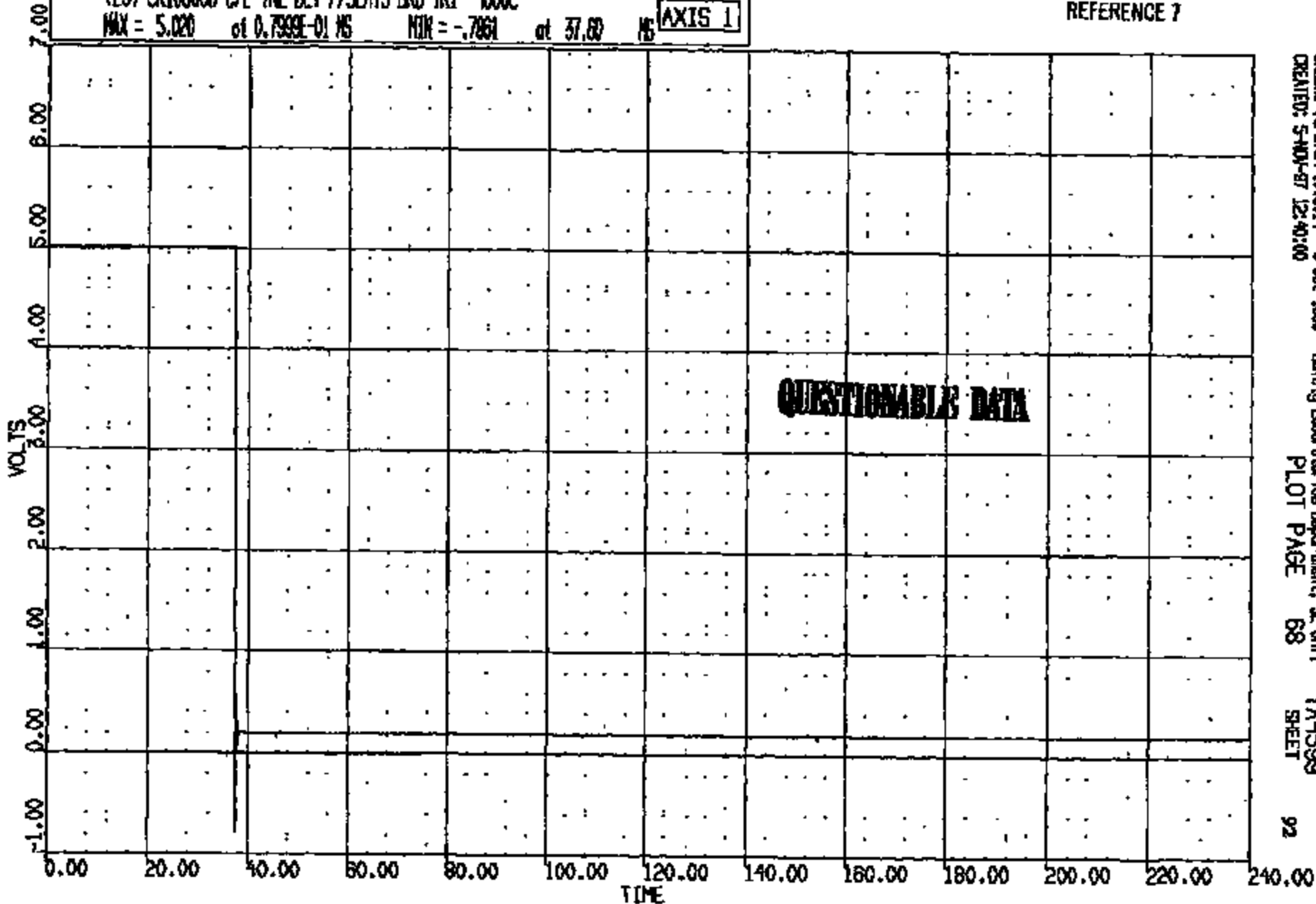
91

CRIS 0010806

CR R: 10808 TD: TA4598 DATE: 970821 09:31:21  
199X DN-101 199X DN-101

TIME-ZERO CORRECTED  
IN ACCORDANCE WITH ST-25  
REFERENCE 7

(25) CR108068 C/L TNL BET F/SEATS BRO TRI 4000C  
MAX = 5.020 at 0.7399E-01 MS MIN = -.7861 at 37.60 MS **AXIS 1**



CASDS Version 1.16.14 - 9-Oct-1988  
CREATED: 5-AUG-87 12:40:00

Safety Laboratories Department, SE Unit  
PLOT PAGE 68

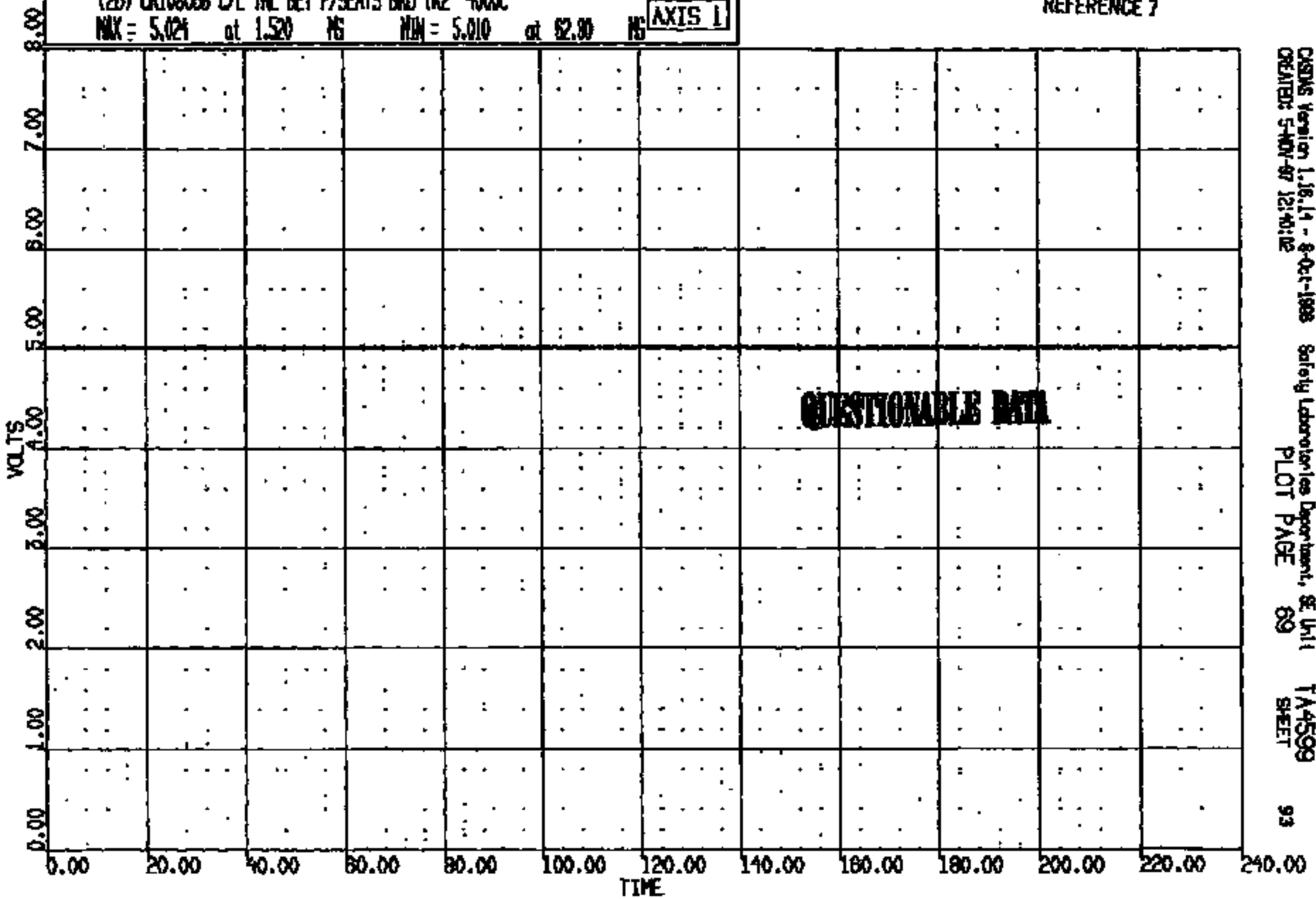
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SHEET



CR R: 10808 TO: TA4599 DATE: 870821 09:51:21  
189X DN-101 189X DN-101

TIME-ZERO CORRECTED  
IN ACCORDANCE WITH ST-25  
REFERENCE 7

(26) CR10808B C/L TNL DET F/SEATS BRD TR2 4000C  
MAX = 5.024 at 1.520 NS MIN = 5.010 at 82.90 NS **AXIS 1**

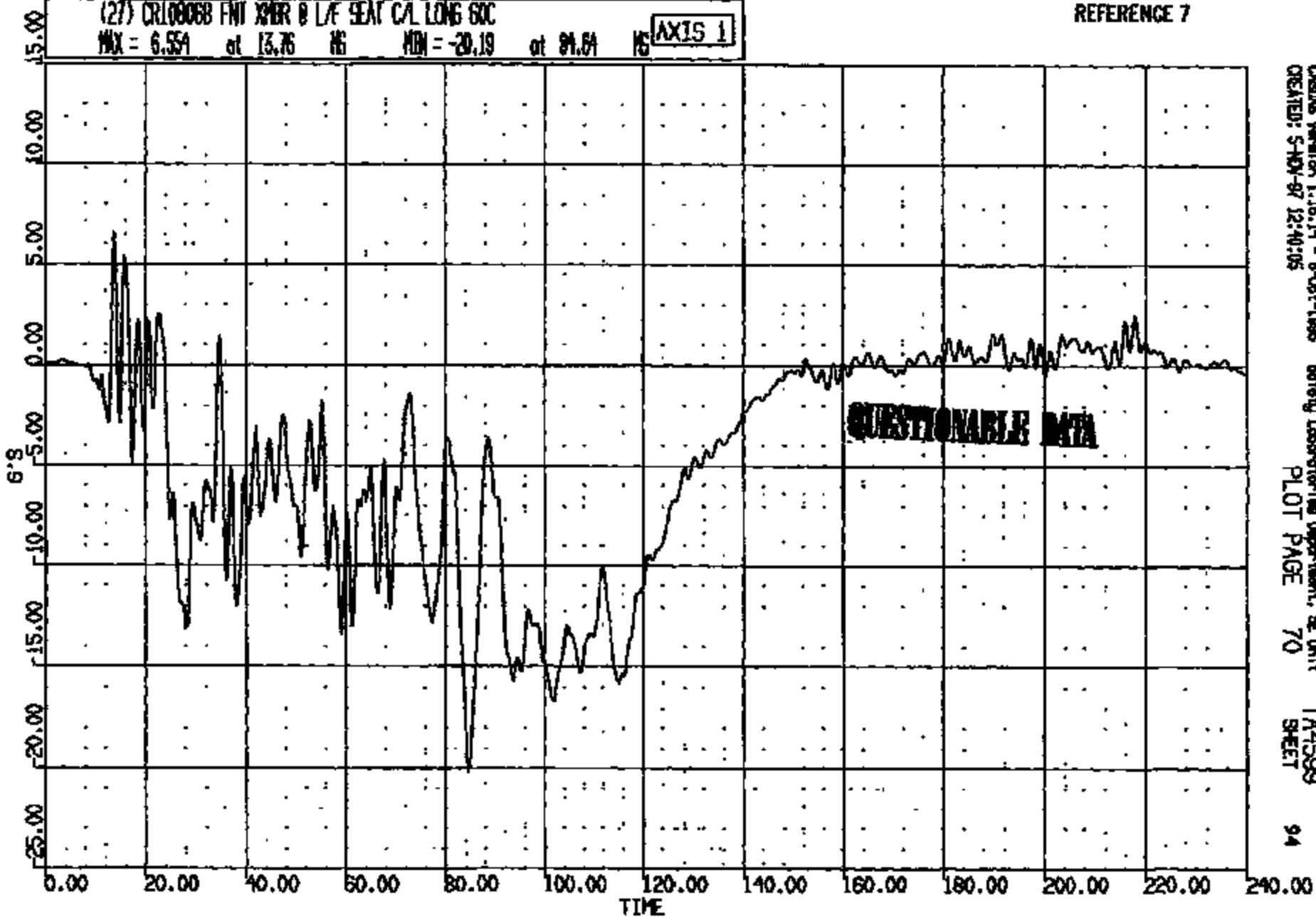


CRSIS Version 1.16.14 - 8-Oct-1988 Safety Laboratories Department, SE Unit  
CREATED: 5-MAR-87 12:40:12 PLOT PAGE 89 TA4599 SHEET 93

CR R: 10808 TO: TA4599 DATE: 070821 09:31:21  
199X DN-101 199X DN-101

TIME-ZERO CORRECTED  
IN ACCORDANCE WITH ST-25  
REFERENCE 7

(27) CR100088 FNT XMR 0 L/F SEAT CAL LONG SOC  
MAX = 6.554 at 13.76 MS MIN = -20.19 at 81.64 MS **AXIS 1**

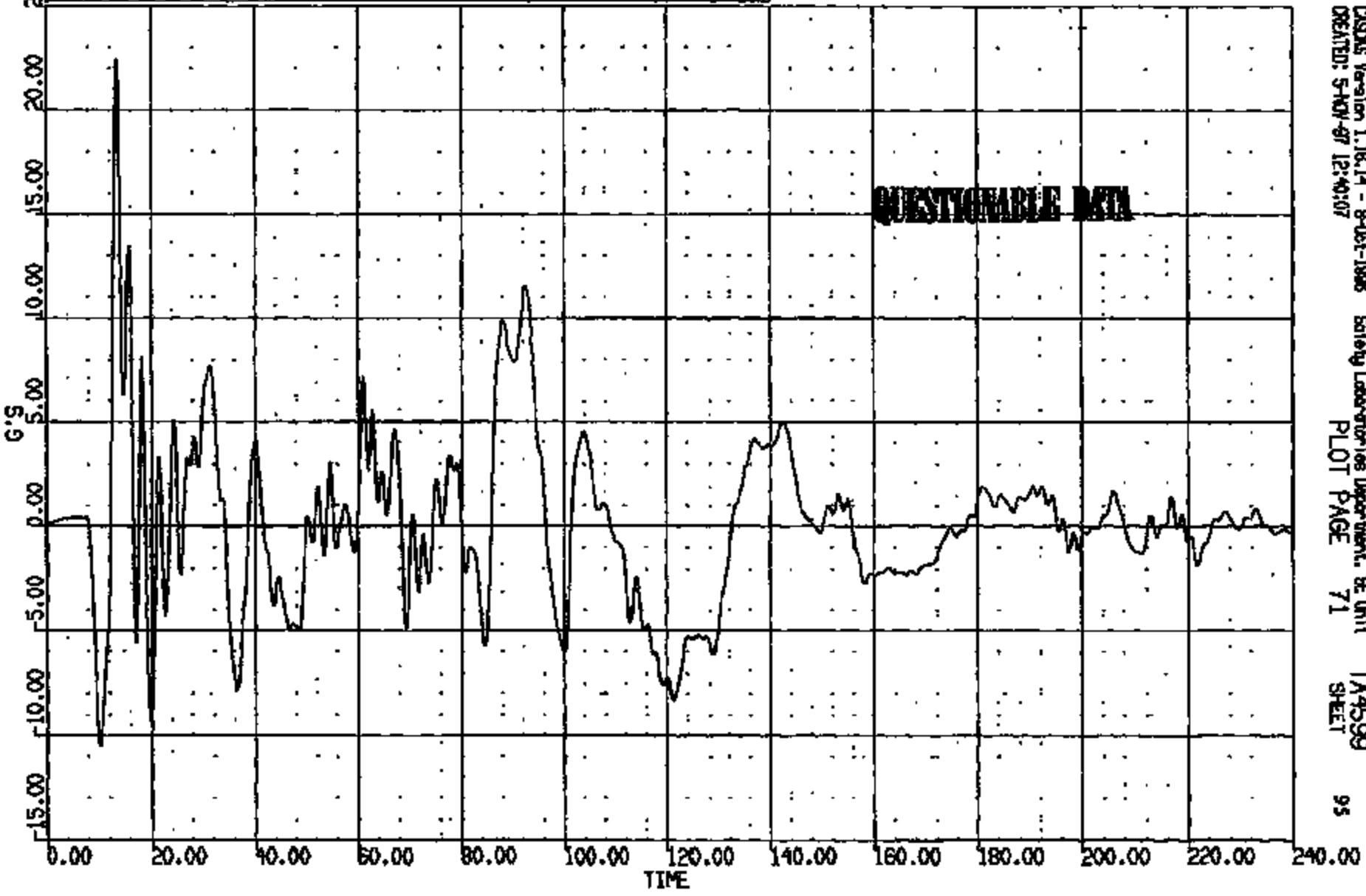


CASORG Version 1.18.14 - 8-Oct-1998 Safety Laboratories Department, GE Unit  
CREATED: 5-NOV-97 12:40:05 TA4599  
PLOT PAGE 70 SHEET 94

CR R: 10808 TD: TA4599 DATE: 870821 08:31:21  
199X DN-101 199X DN-101

TIME-ZERO CORRECTED  
IN ACCORDANCE WITH ST-25  
REFERENCE 7

(28) CR10808B FMT XPR @ L/F SEAT CAL VERT SOC  
MAX = 22.37 at 13.52 MS MIN = -10.51 at 10.24 MS **AXIS 1**



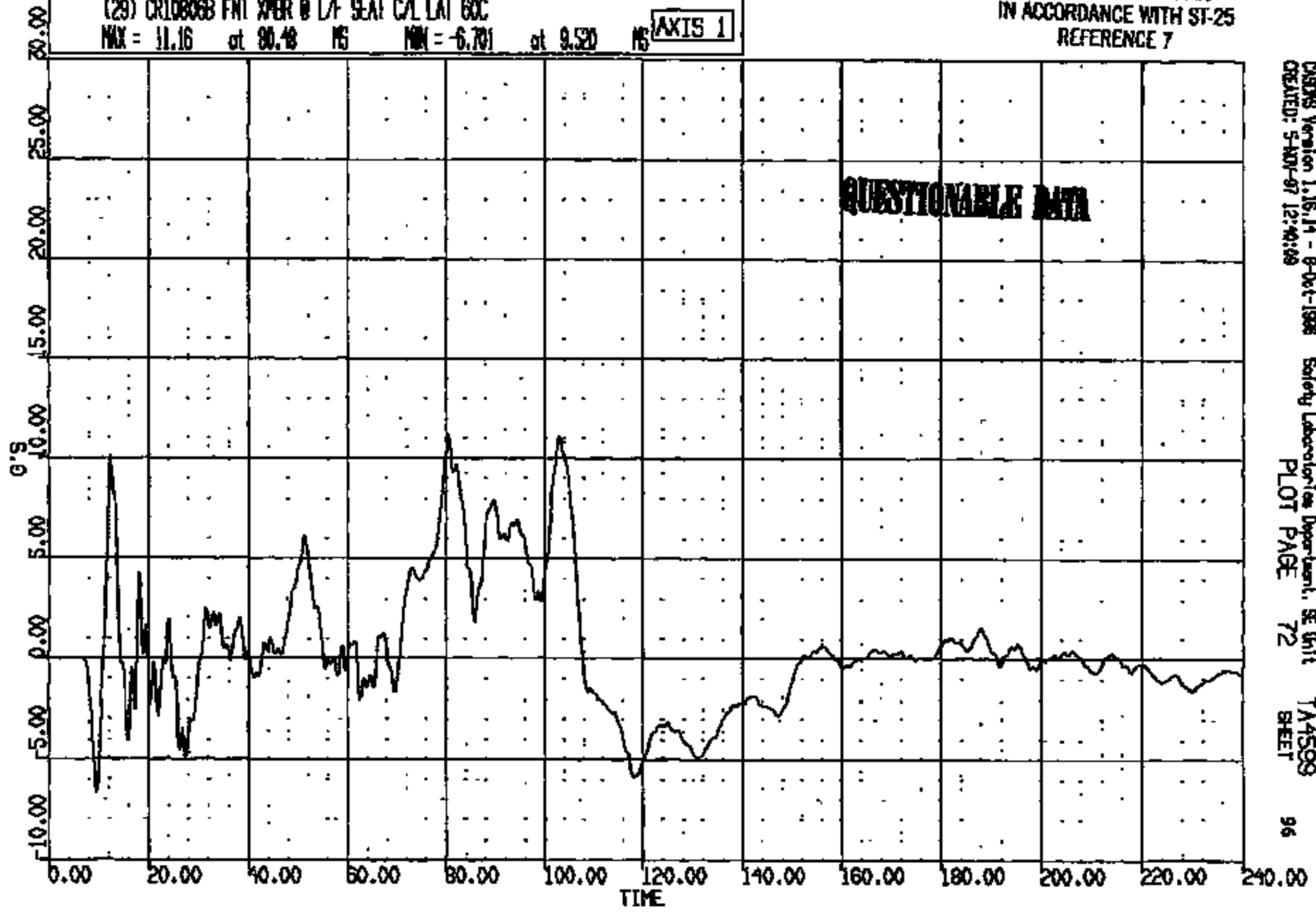
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CREATED: 5-NOV-87 12:40:07 PLOT PAGE 71 TA4599 SHEET 95

CRTS 0010806

CR R: 10806 TO: TA4509 DATE: 070821 09:51:21  
199X DN-101 199X DN-101

(29) CR108068 FNT XPER @ L/F SEAT C/L LAT 60C  
MAX = 11.16 at 80.48 MS MIN = -6.701 at 9.520 MS **AXIS 1**

TIME-ZERO CORRECTED  
IN ACCORDANCE WITH ST-25  
REFERENCE 7



CRS Version 1.16.14 - 0-0ct-1988 Safety Laboratory Department, SE Unit TA4509  
CREATED: 5-AUG-97 12:40:09 PLOT PAGE 72 SHEET 96

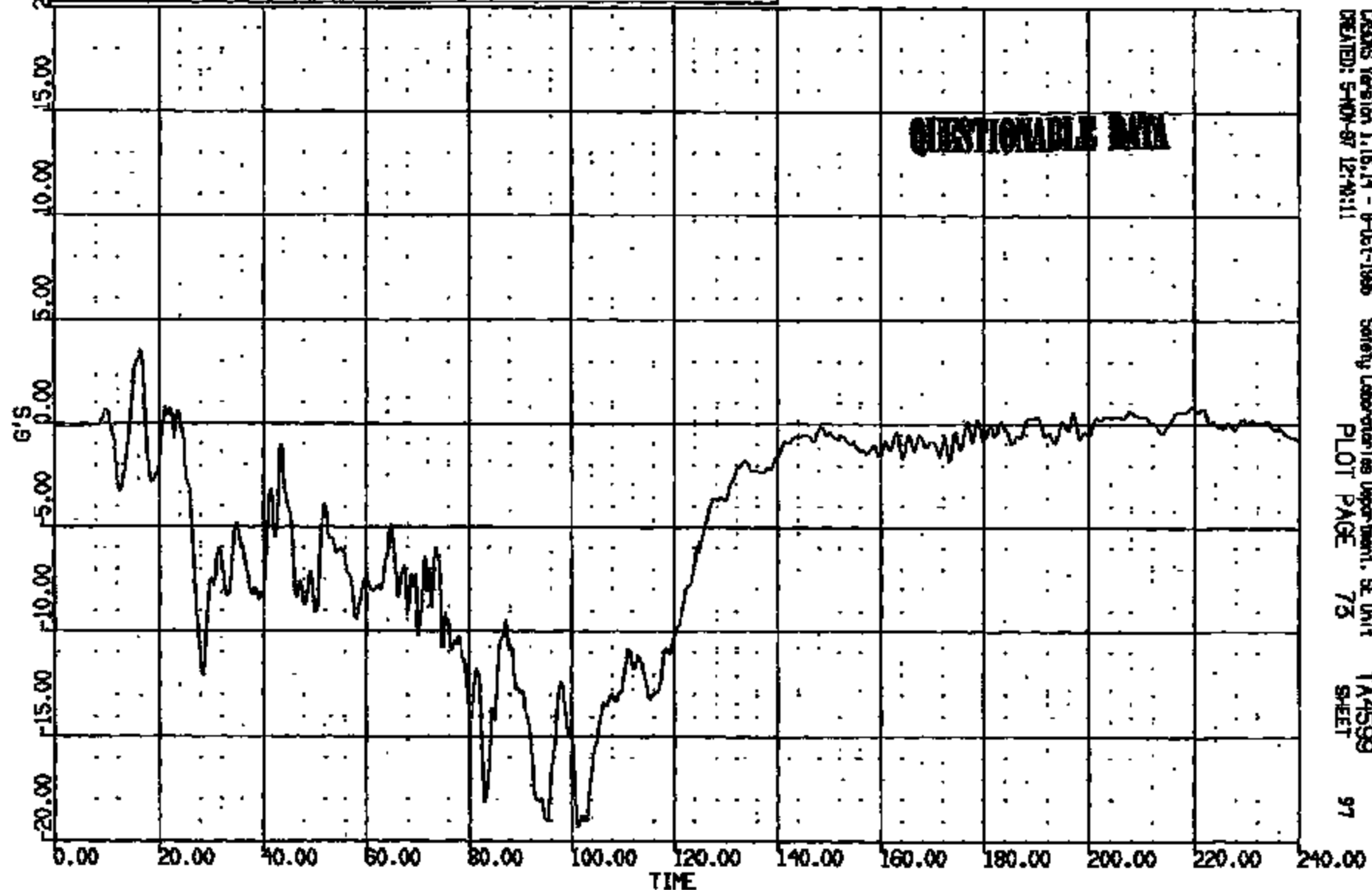
CRIS 0010806

CR R: 10808 TO: TA4599 DATE: 970821 09:31:21  
100X DN-101 100X DN-101

TIME-ZERO CORRECTED  
IN ACCORDANCE WITH ST-25  
REFERENCE 7

(30) CR108083 FMT XMR @ R/F SEAT CAL LONG 60C  
MAX = 3.527 at 16.48 MS MIN = -19.34 at 101.4 MS **AXIS 1**

**QUESTIONABLE DATA**



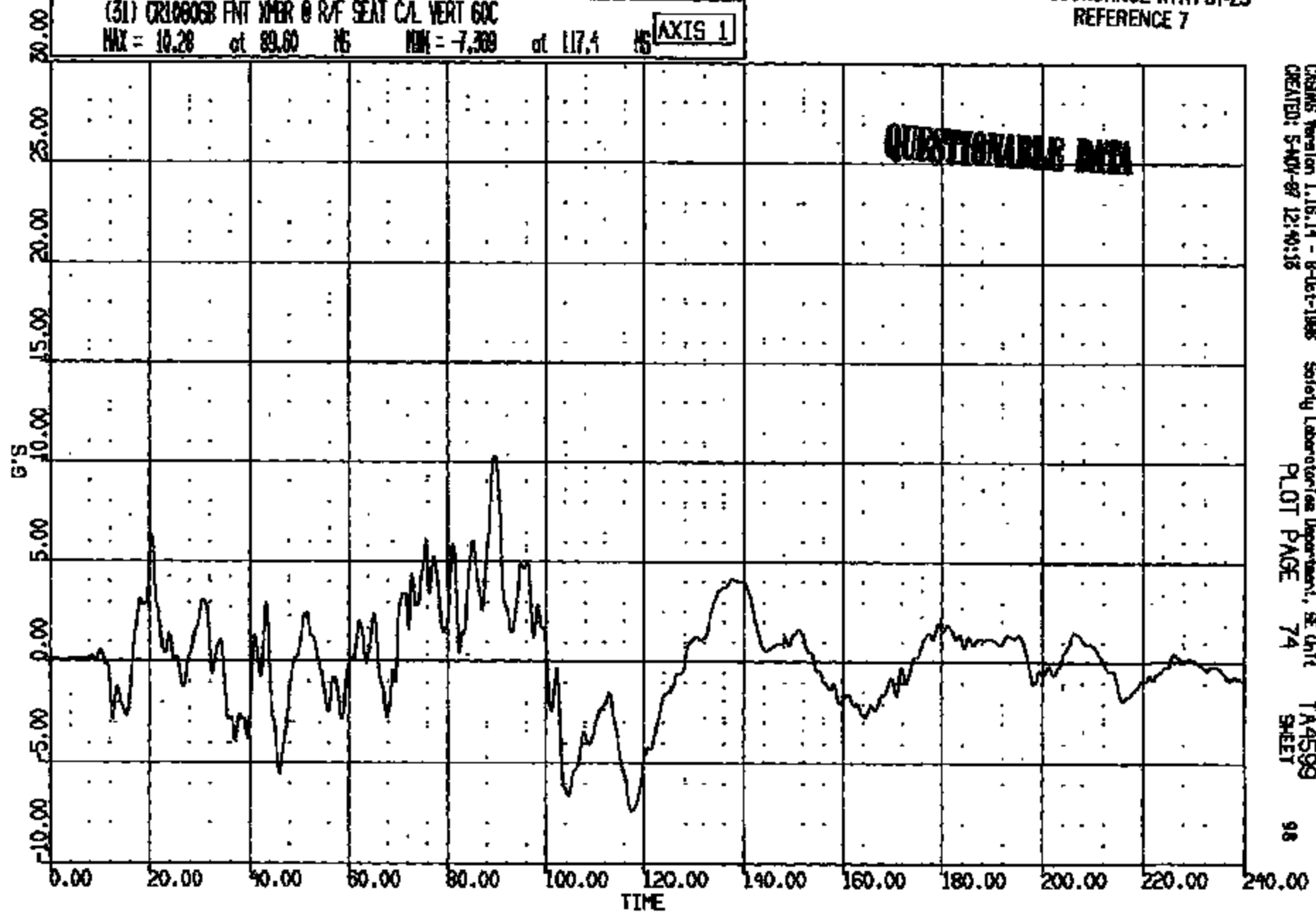
CRS Version 1.16.14 - P-Oct-1986 Safety Laboratories Department, SE Unit  
CREATED: 5-MAR-87 12:40:11 PLOT PAGE 75 SHEET 97

CRTS 0010806

CR R: 10808 TO: TA4599 DATE: 870821 09:51:21  
199X DN-101 199X DN-101

TIME-ZERO CORRECTED  
IN ACCORDANCE WITH ST-25  
REFERENCE 7

(31) CR10808B FNT XMR @ R/F SEAT C/L VERT GOC  
MAX = 10.28 at 89.60 HS MIN = -7.308 at 117.4 HS **AXIS 1**



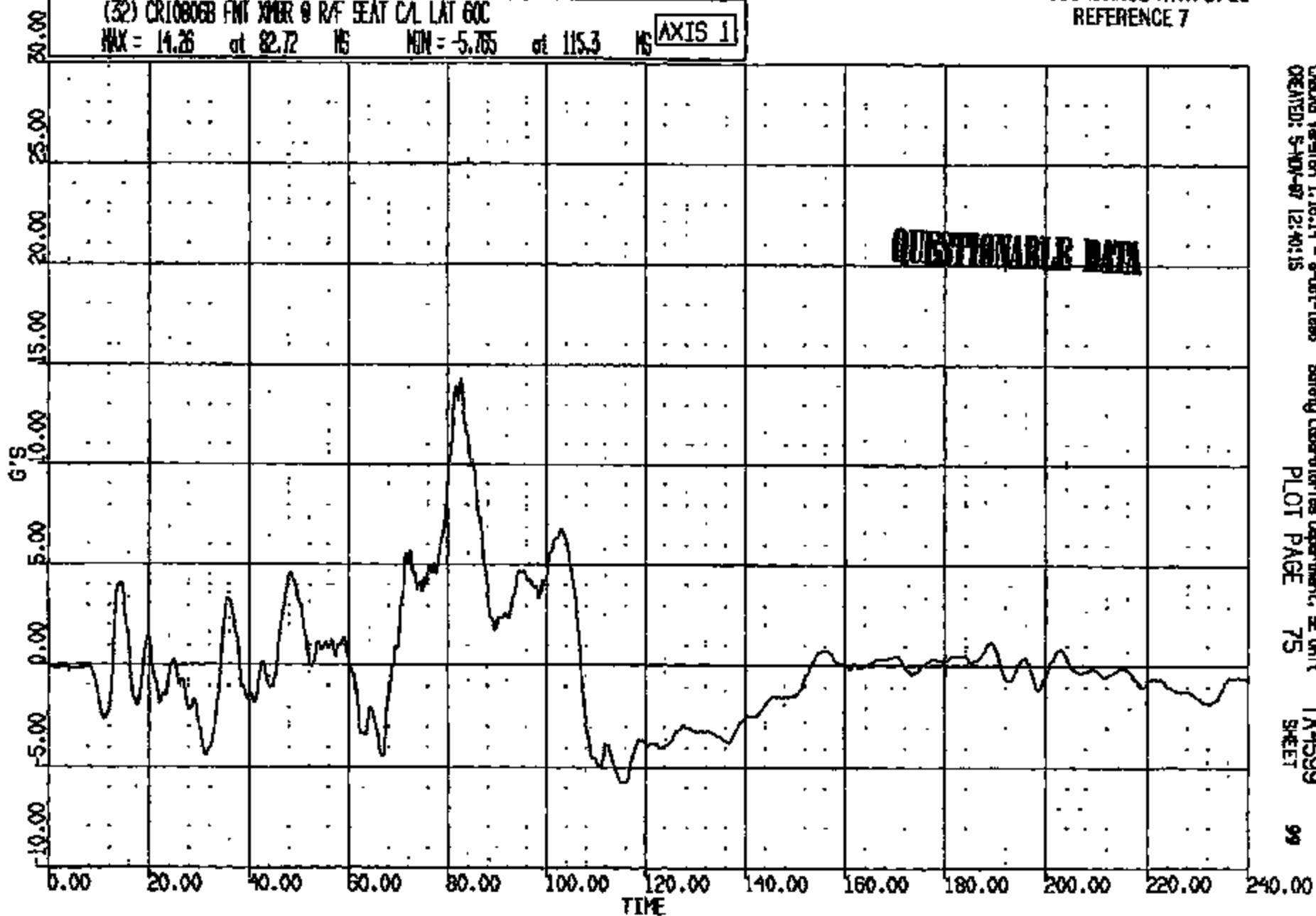
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CRTS 0010806

CR R: 10808 TO: TA4599 DATE: 870821 08:51:21  
189X DN-101 189X DN-101

TIME-ZERO CORRECTED  
IN ACCORDANCE WITH ST-25  
REFERENCE 7

(32) CR10806B FMT XMR 9 R/F SEAT C/L LAT 60C  
MAX = 14.26 at 82.72 MS MIN = -5.765 at 115.3 MS **AXIS 1**



CRSAS Version 1.16.14 - 8-Oct-1988  
CREATED: 5-NOV-87 12:40:15

Safety Laboratories Department, SE Unit  
PLOT PAGE 75

TA4599  
SHEET

99

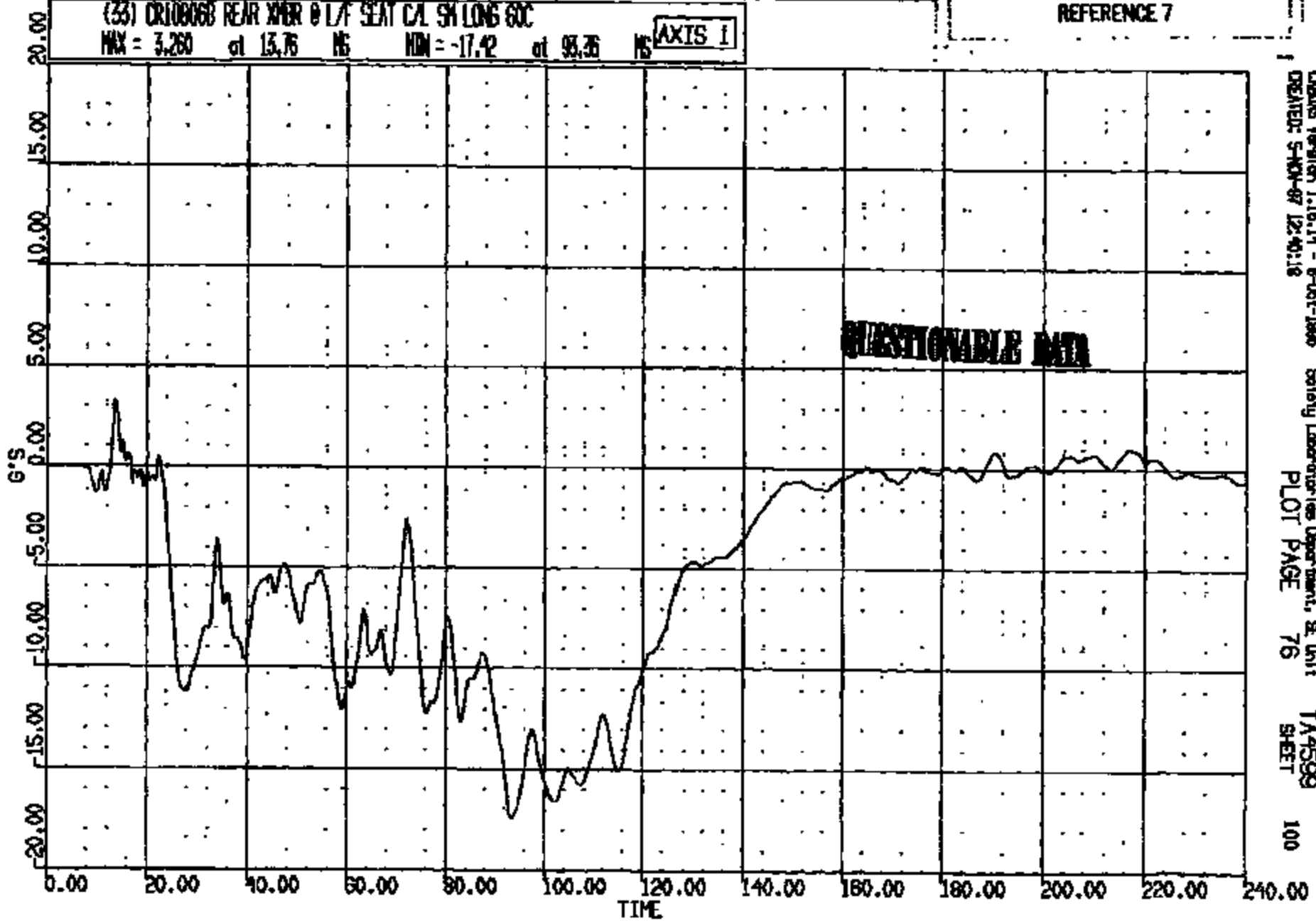
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199X DN-101 199X DN-101

TIME-ZERO CORRECTED  
IN ACCORDANCE WITH ST-25  
REFERENCE 7

(33) CR10806B REAR XMR @ L/F SEAT CAL SH LONG 60C

MAX = 3.260 at 13.75 MS MIN = -17.42 at 93.36 MS

AXIS 1



CRTS Version 1.16.14 - 8-Oct-1988  
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Safety Laboratories Department, SE Unit  
PLOT PAGE 76

TA4599  
SHEET

100

CRTS 0010806



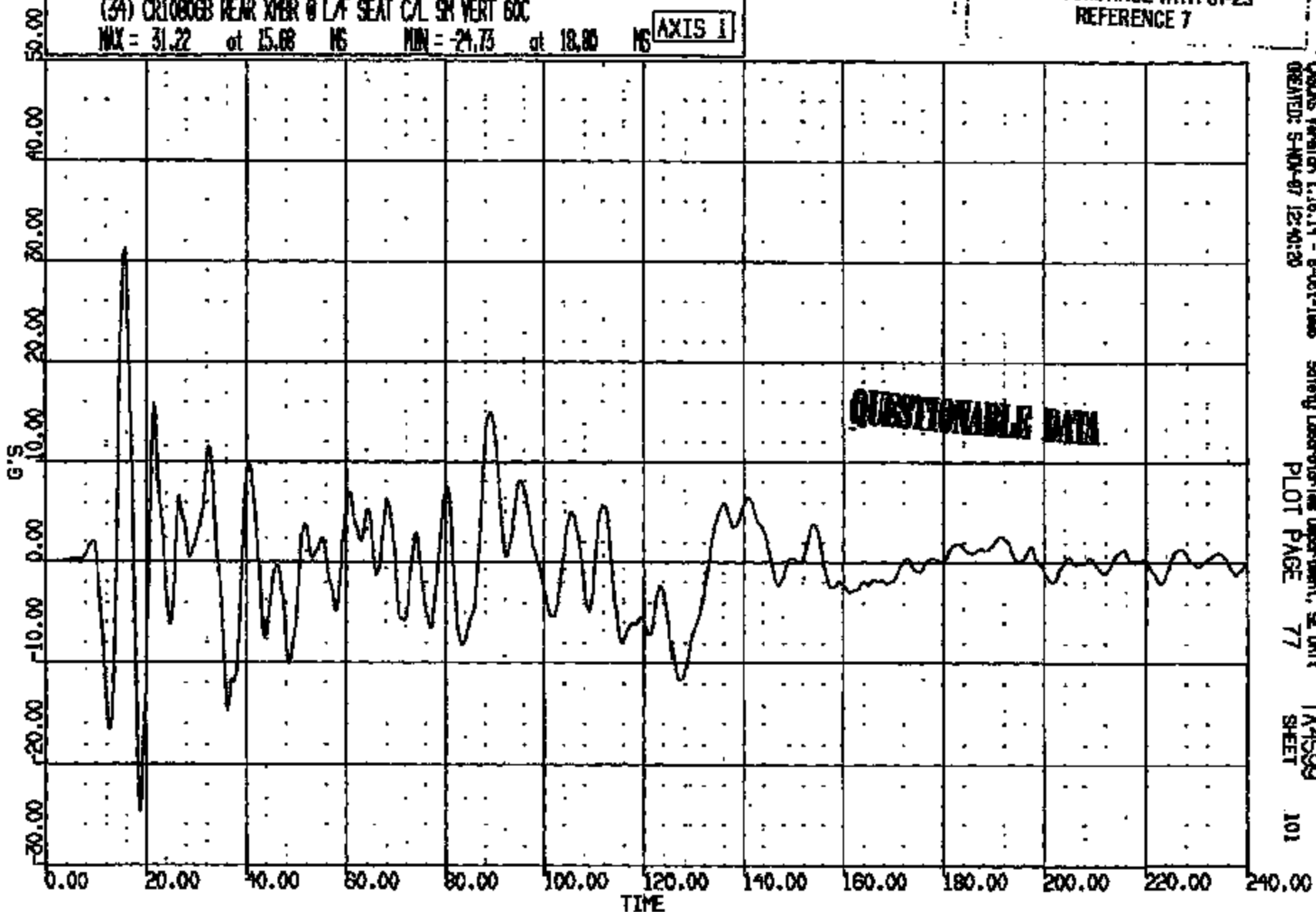
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TIME-ZERO CORRECTED  
IN ACCORDANCE WITH ST-25  
REFERENCE 7

(34) CR1000GB REAR XMR @ L/R SEAT C/L SH VERT 60C

MAX = 31.22 at 15.08 MS MIN = -21.73 at 18.00 MS

AXIS 1



ORION Version 1.18.14 - B-Oct-1995  
CREATED: 5-MAY-97 12:40:20

Safety Laboratories Department, SE Unit

PLOT PAGE 77

TA4599  
SHEET

101

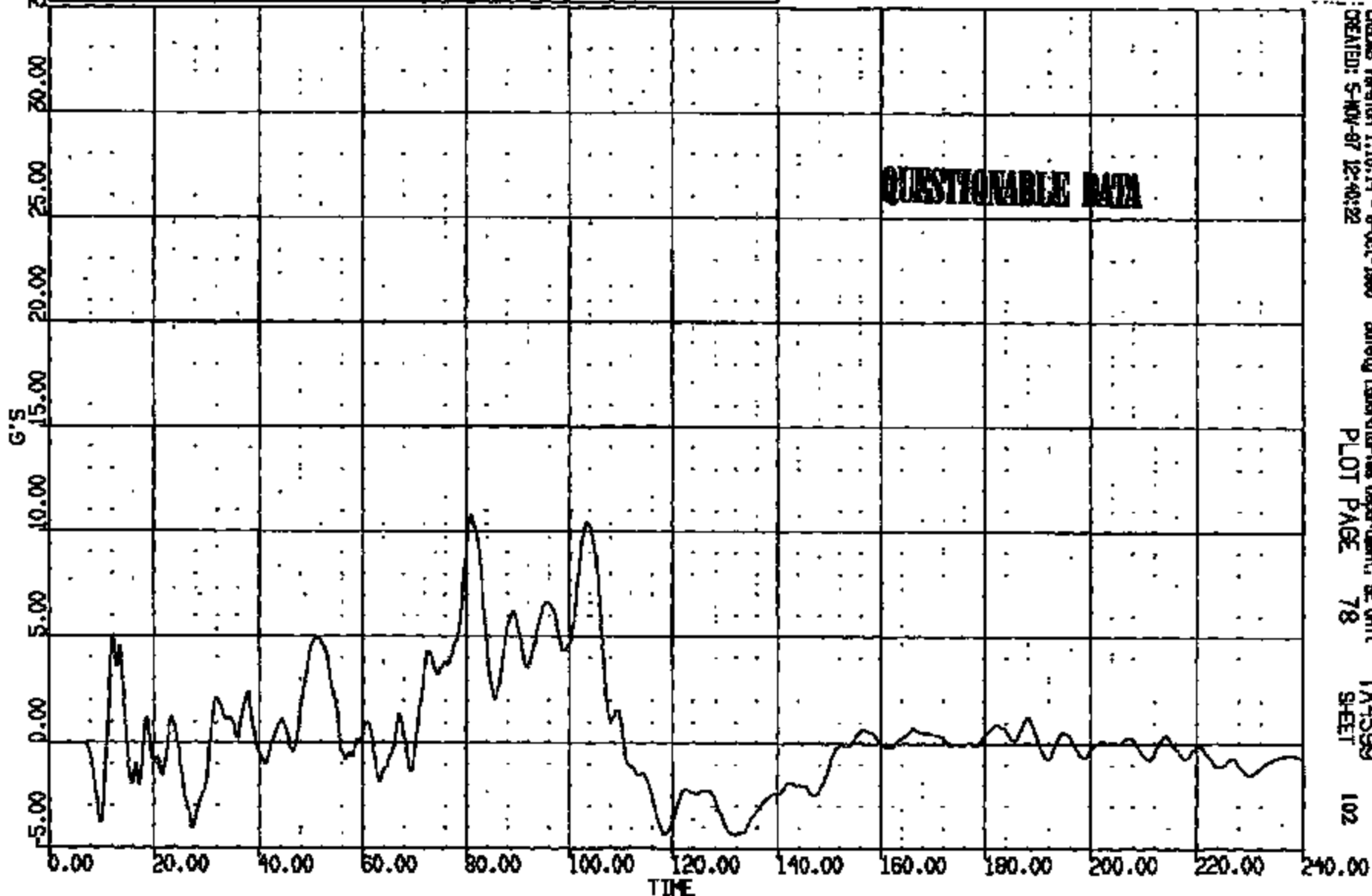
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TIME-ZERO CORRECTED  
IN ACCORDANCE WITH ST-25  
REFERENCE 7

(35) CR108088 REAR XPR @ L/F SEAT CAL SH LAT 60C

MAX = 10.80 at 80.95 MS MIN = -4.379 at 118.4 MS **AXIS 1**

QUESTIONABLE DATA



CRS Version 1.18.14 - 8-Oct-1998  
CREATED: S-MW-87 12:40:32

Safety Laboratories Department, E. Unit  
PLOT PAGE 78

TA4598  
SHEET

102

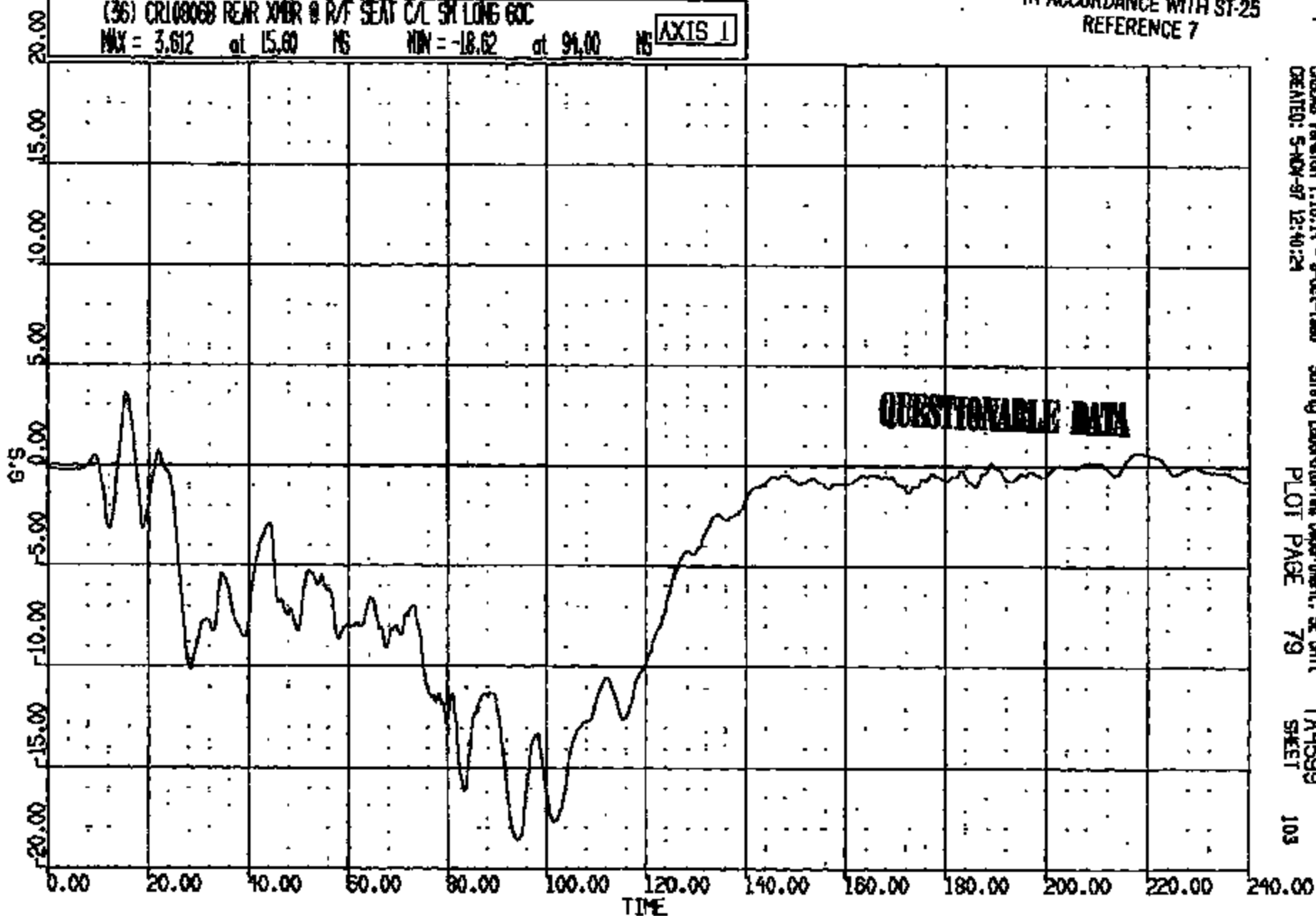
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199X DN-101 199X DN-101

TIME-ZERO CORRECTED  
IN ACCORDANCE WITH ST-25  
REFERENCE 7

(36) CR108068 REAR XDR @ R/F SEAT C/L SH LONG 60C

MAX = 3.612 at 15.00 MS MIN = -18.62 at 91.00 MS

AXIS 1



CRSAS Version 1.18.14 - 9-Oct-1998  
CREATED: 5-NOV-97 12:40:24

Safety Laboratories Department, SE Unit

PLOT PAGE 79

TA4599  
SHEET

103

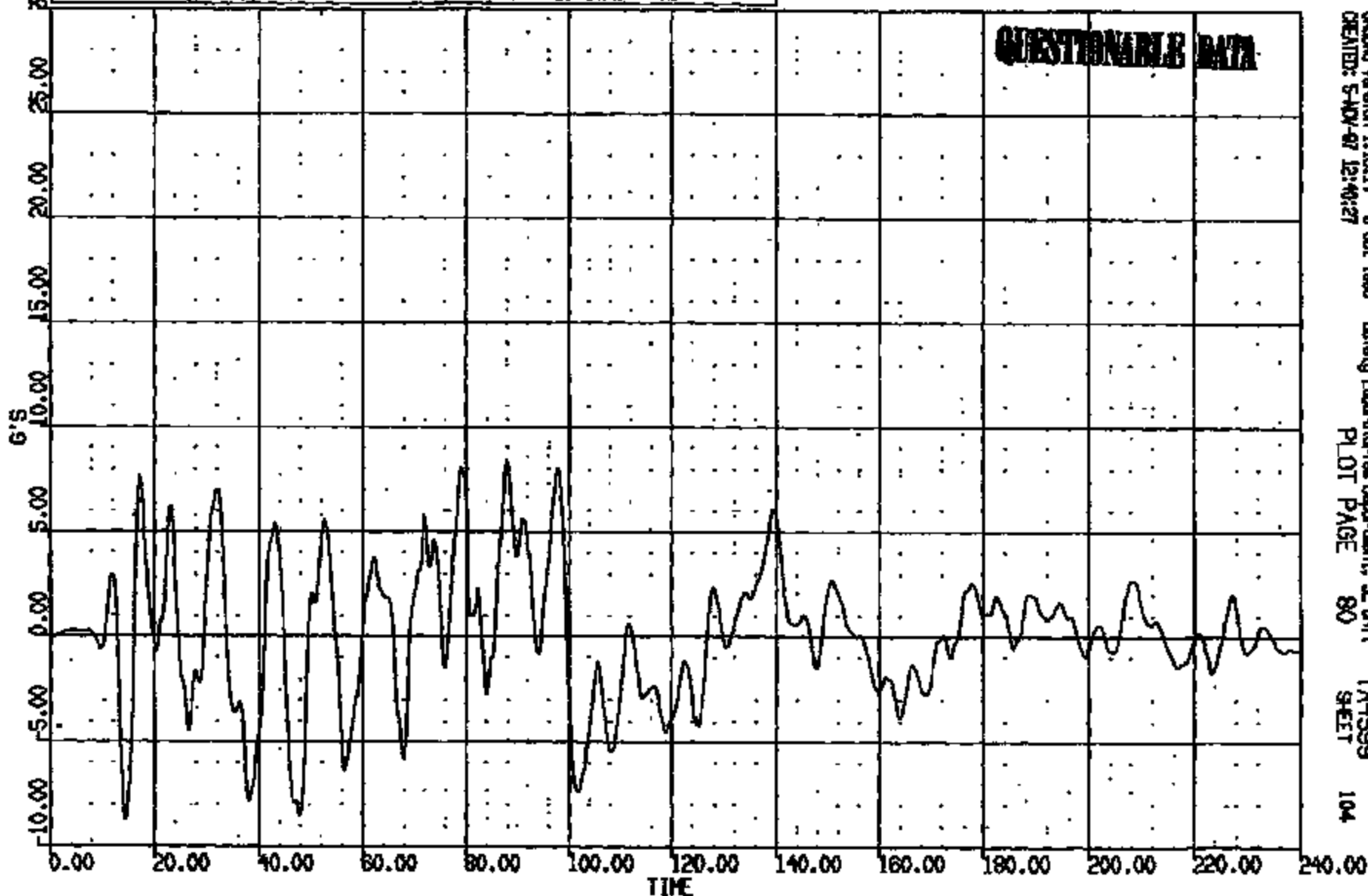
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199X DN-101 199X DN-101

TIME-ZERO CORRECTED  
IN ACCORDANCE WITH ST-25  
REFERENCE 7

(37) CR100063 REAR VIEW @ R/F SEAT C/L SH VERT 60C

MAX = 8.305 at 87.92 MS MIN = -8.700 at 14.40 MS **AXIS 1**

**QUESTIONABLE DATA**



CRASH Version 1.16.14 - 8-Oct-1995  
CREATED: SANDY-87 12:40:27

Safety Laboratories Department, SE Unit  
PLOT PAGE 80

TA4599  
SHEET 104

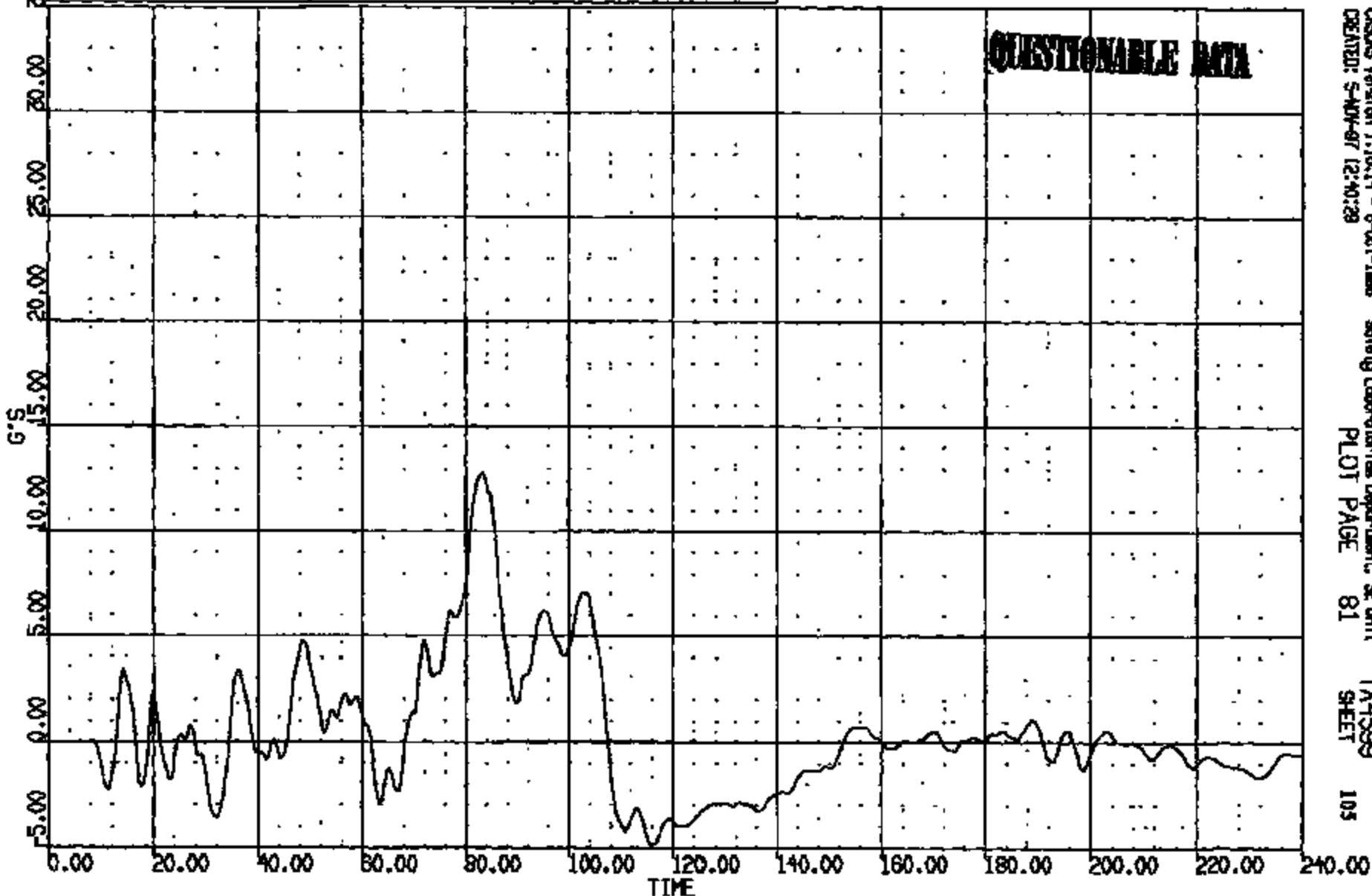
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199X DN-101 199X DN-101

TIME-ZERO CORRECTED  
IN ACCORDANCE WITH ST-25  
REFERENCE 7

(38) CR10808B REAR XMR @ R/F SEAT C/L SH LAT 60C

MAX = 12.77 at 85.04 MS MIN = -4.907 at 115.7 MS **AXIS 1**

QUESTIONABLE DATA



CRSDS Version 1.16.14 - 8-Oct-1988 Safety Laboratories Department, SE Unit TA4599  
CREATED: 5-MAY-87 12:40:28 PLOT PAGE 81 SHEET 105

CRTS 0010806

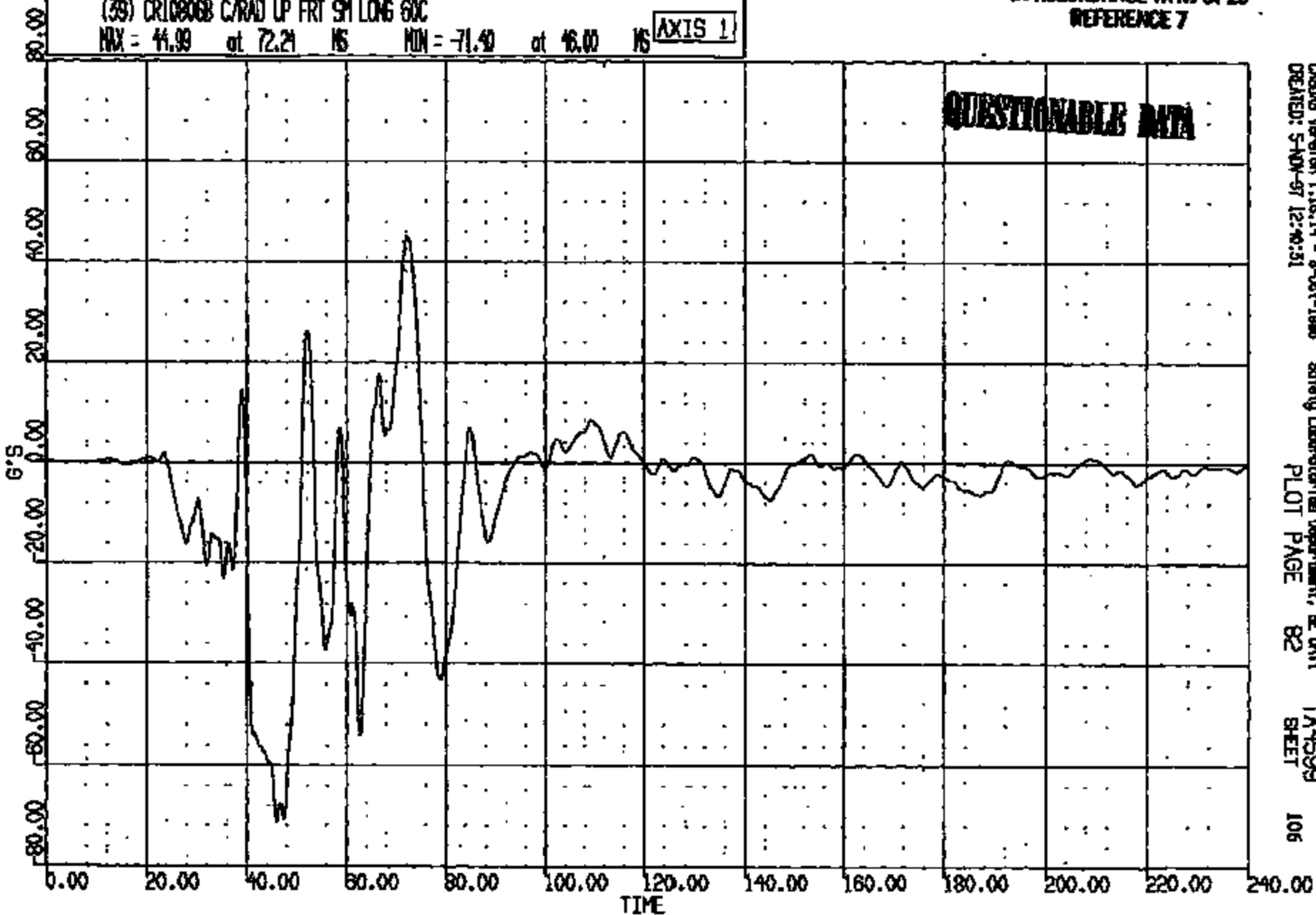
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198X DN-101 198X DN-101

TIME-ZERO CORRECTED  
IN ACCORDANCE WITH ST-25  
REFERENCE 7

(39) CR108068 C/RAD UP FRT 91 LONG 60C

MAX = 44.99 at 72.21 MS MIN = -71.40 at 46.00 MS **AXIS 1**

**QUESTIONABLE DATA**



CASUS Version 1.18.14 - 8-Oct-1988  
CREATED: 5-NOV-87 12:40:51

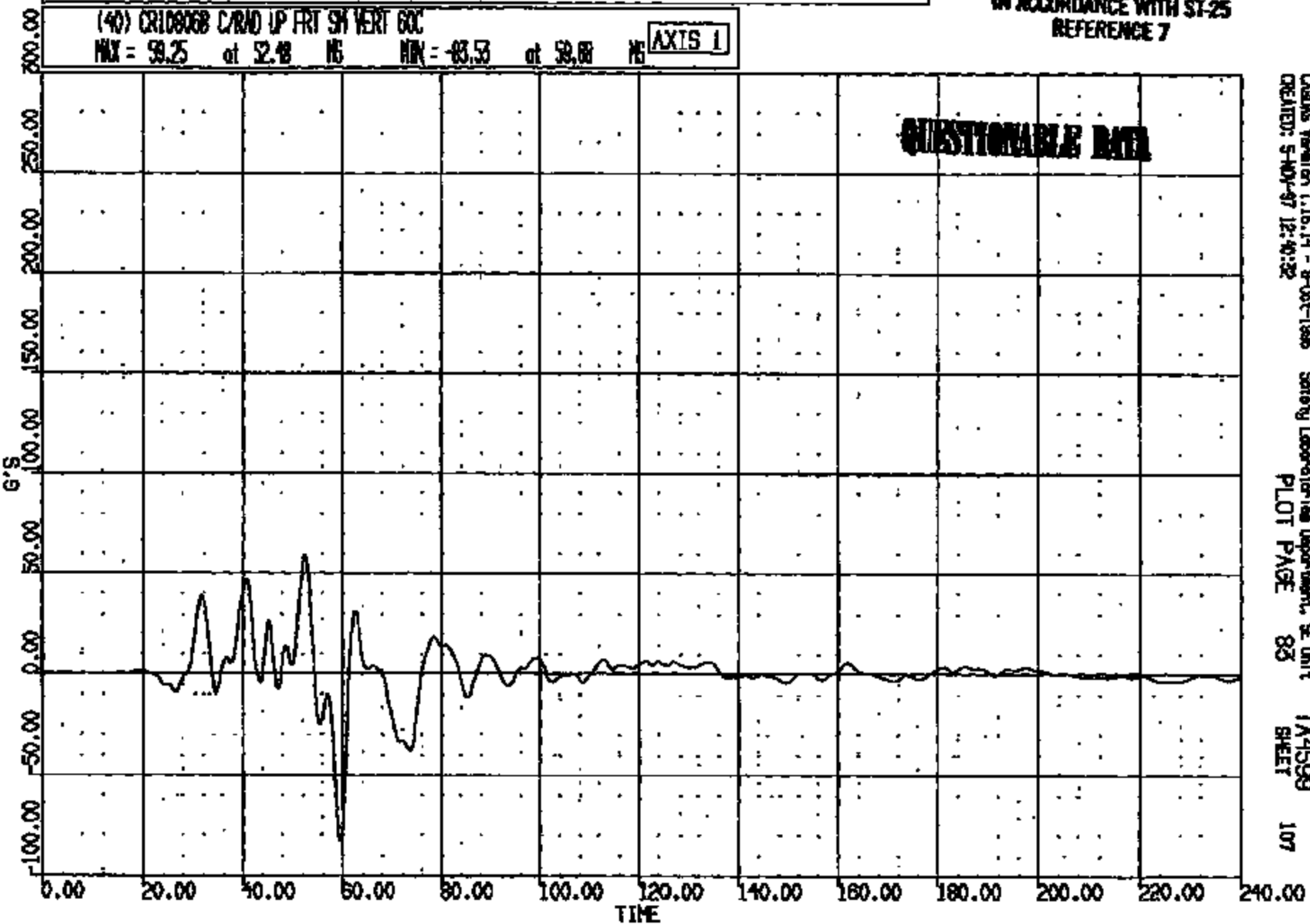
Safety Laboratories Department, SE Unit  
PLOT PAGE 82

TA4599  
SHEET 106

CR #: 10806 TO: TA4599 DATE: 870821 09:51:21  
199X DN-101 199X DN-101

TIME-ZERO CORRECTED  
IN ACCORDANCE WITH SI-25  
REFERENCE 7

(40) CR108068 C/RAD LP FRT SH VERT GOC  
MAX = 59.25 at 52.48 MS MIN = -83.53 at 58.08 MS **AXIS 1**



CADDS Version 1.16.14 - 8-Oct-1985 Safety Laboratories Department, SE Unit TA4599  
CREATED: 5-NOV-97 12:40:32 PLOT PAGE 83 SHEET 107

CR R: 10806 TO: TA4599 DATE: 970621 09:31:21  
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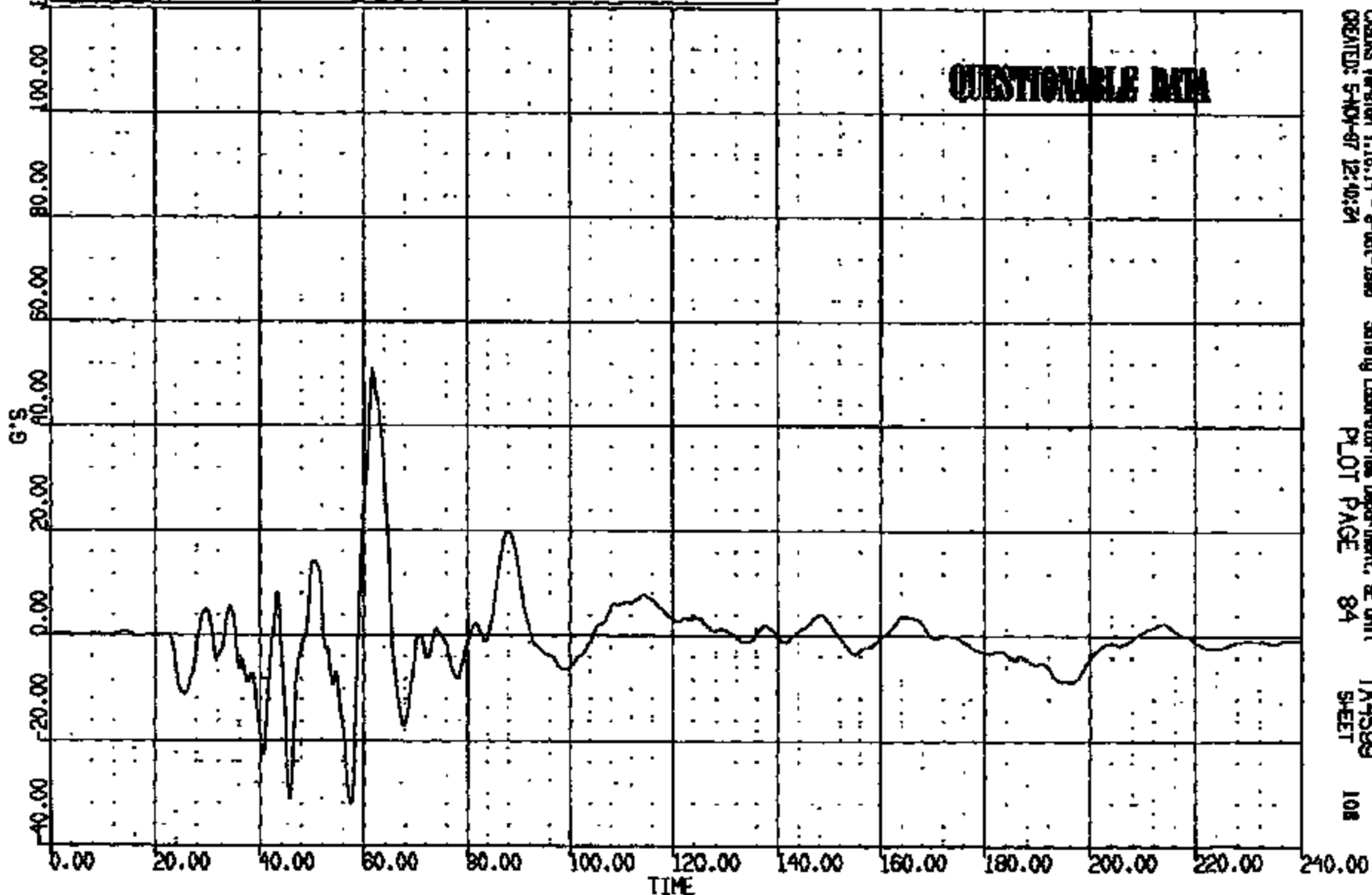
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ON ACCORDANCE WITH ST-25  
REFERENCE 7

(41) CR108068 C/RAD UP FRT SH LAT 60C

MAX = 59.87 at 61.76 MS MIN = -31.88 at 57.68 MS

AXIS 1

QUESTIONABLE DATA



CRSIS Version 1.16.14 - 9-Oct-1999  
CREATED: 5-MAY-97 12:40:24

Safety Laboratories Department, SE Unit  
PLOT PAGE 84

TA4599  
SHEET 108

CRIS 0010806



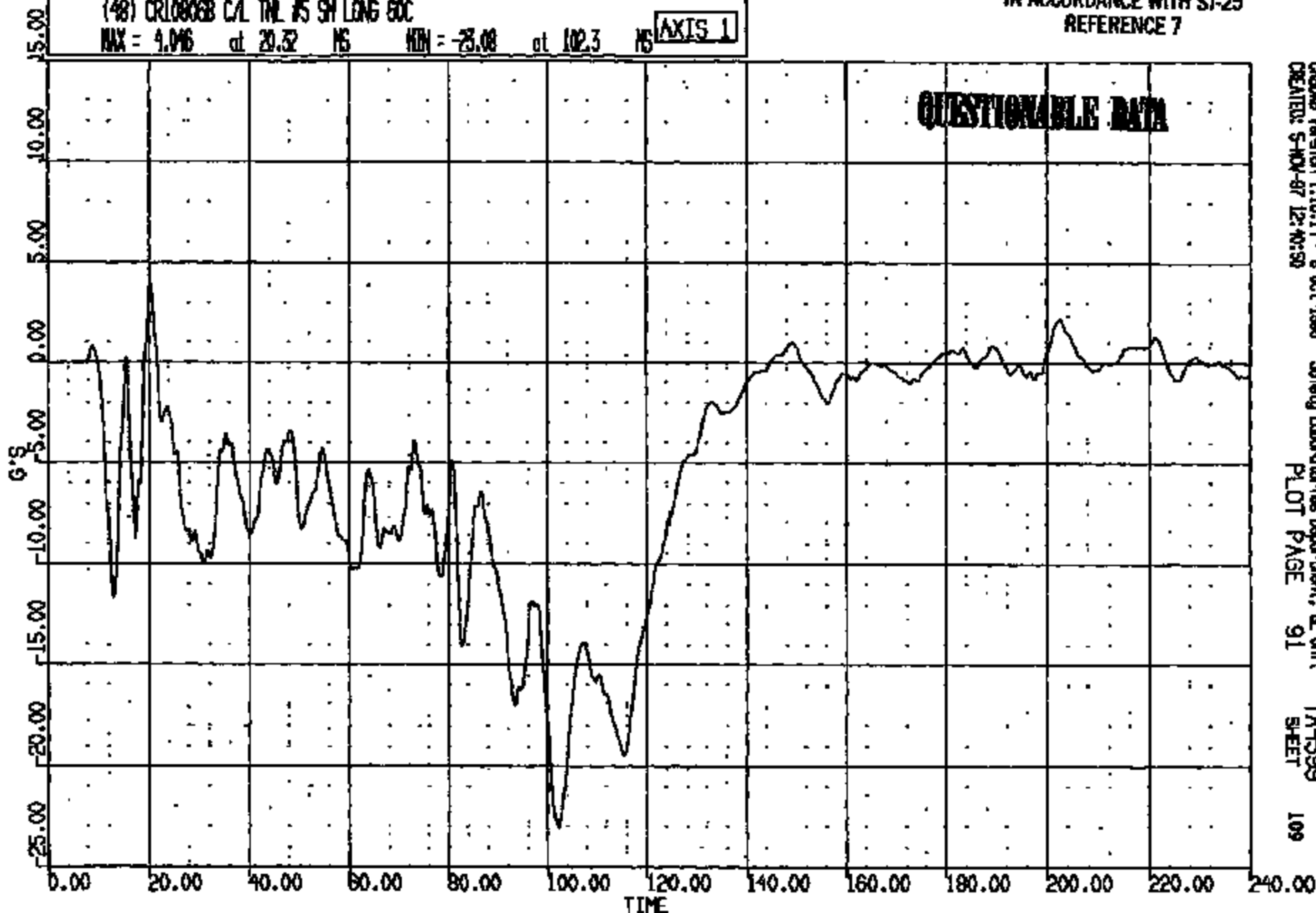
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199X DN-101 199X DN-101

TIME-ZERO CORRECTED  
IN ACCORDANCE WITH ST-25  
REFERENCE 7

(48) CR100033 C/L TML #5 SH LONG 80C

MAX = 9.016 at 20.32 MS MIN = -23.08 at 102.3 MS **AXIS 1**

**QUESTIONABLE DATA**



CRS/MS Version 1.16.14 - 8-Oct-1988  
CREATED: 5-MAY-87 12:40:50

Safety Laboratories Department, E Unit  
PLOT PAGE 91

TA4599  
SHEET

109

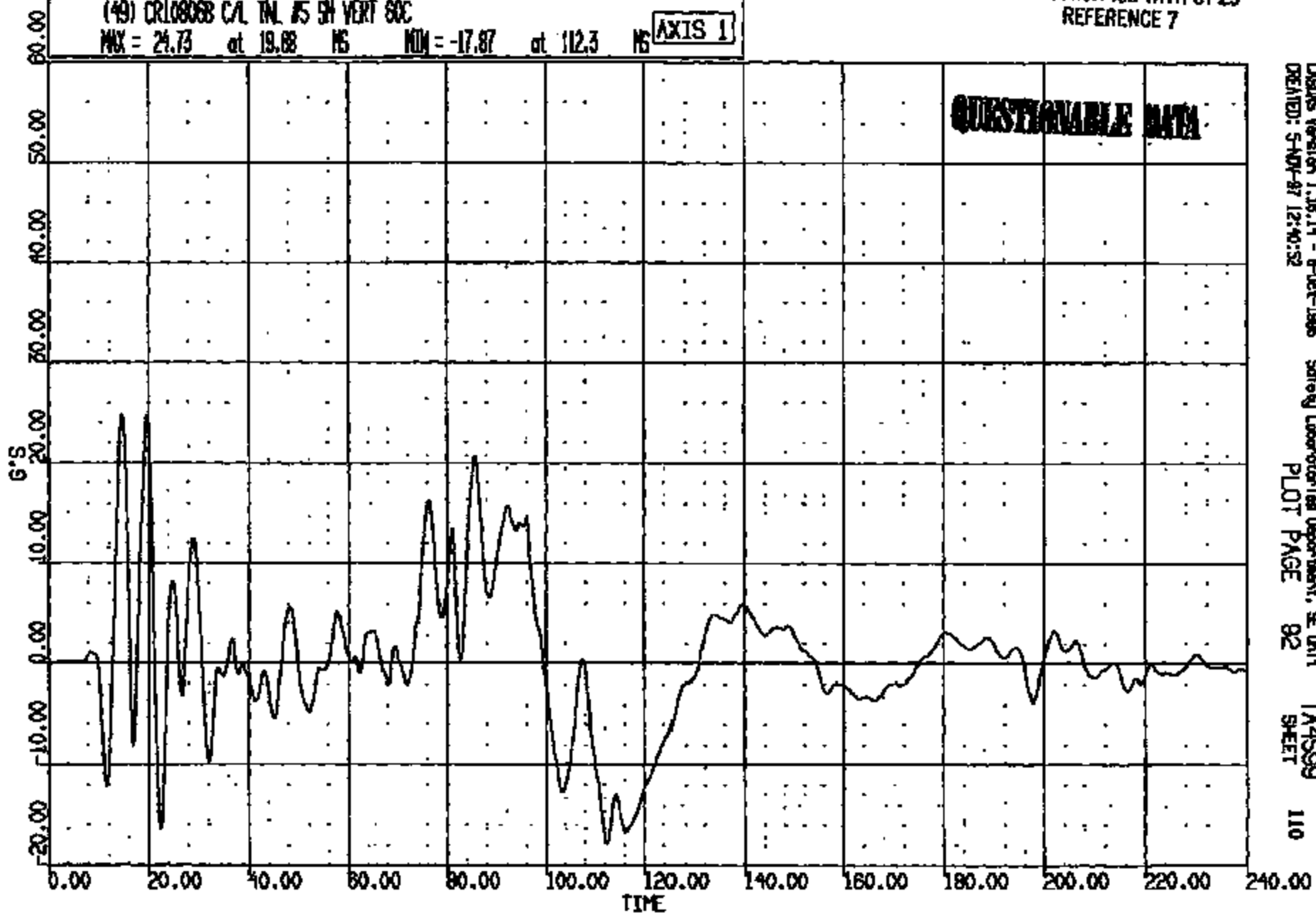
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198X DN-101 199X DN-101

TIME-ZERO CORRECTED  
IN ACCORDANCE WITH ST-25  
REFERENCE 7

(49) CR108088 CAL. TNL. 75 SH VERT 80C

MAX = 24.73 at 19.88 MS MIN = -17.87 at 112.3 MS **AXIS 1**

**QUESTIONABLE DATA**



CRSIS Version 1.16.14 - 8-Oct-1988  
CREATED: 5-NOV-87 12:40:52

Safety Laboratories Department, SE Unit  
PLOT PAGE 92

TA4599  
SHEET

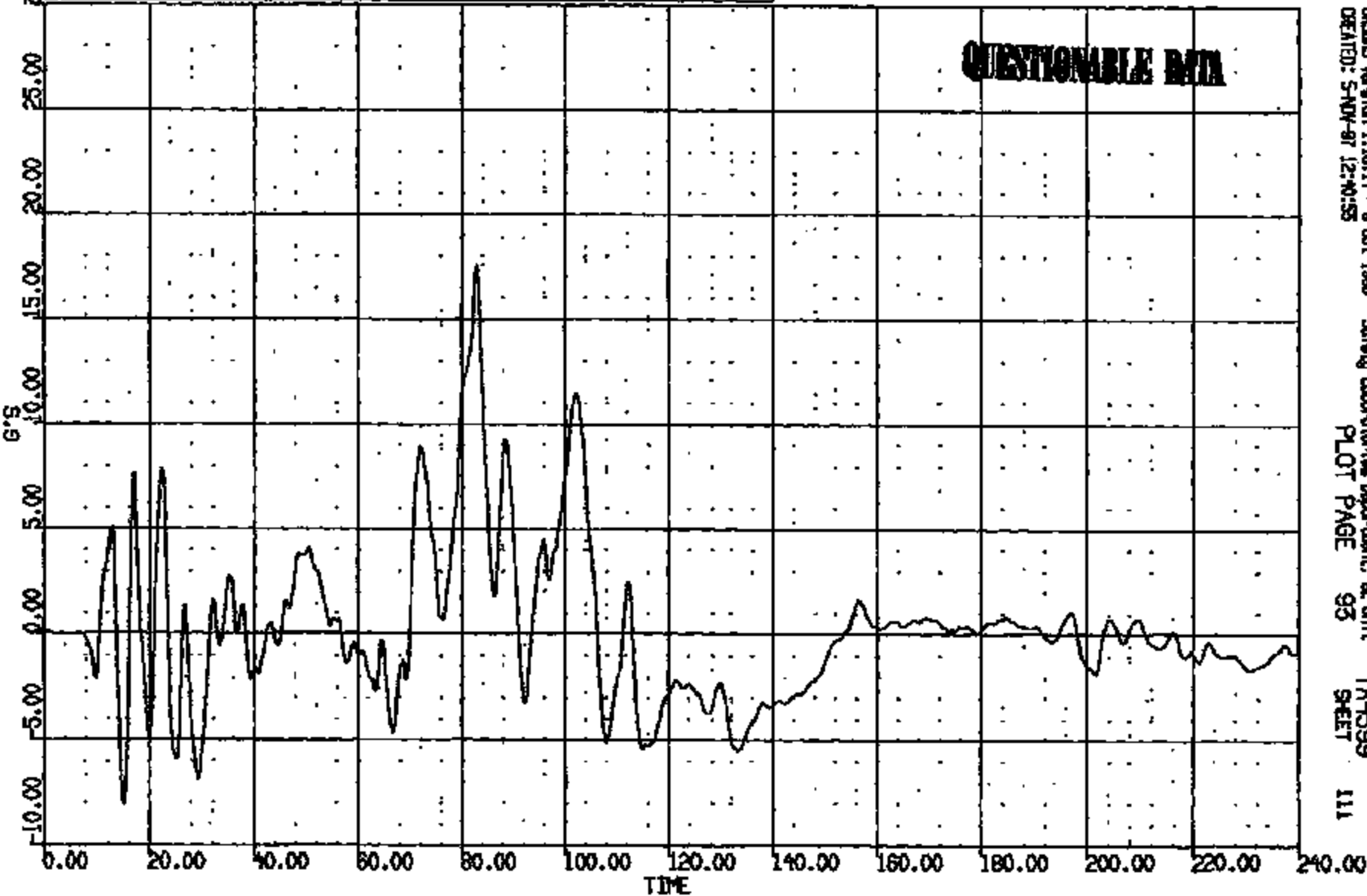
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TIME-ZERO CORRECTED  
IN ACCORDANCE WITH ST-25  
REFERENCE 7

(50) CR108008 CAL INL #5 SH LAT 60C  
MAX = 17.55 at 82.88 MS MIN = -8.071 at 15.28 MS **AXIS 1**

**QUESTIONABLE DATA**



CRIMS Version 1.16.14 - 8-Oct-1988 Safety Laboratories Department, BE Unit TA4599  
CREATED: 5-NOV-87 12:40:55 PLOT PAGE 93 SHEET 111

CRTS 0010806

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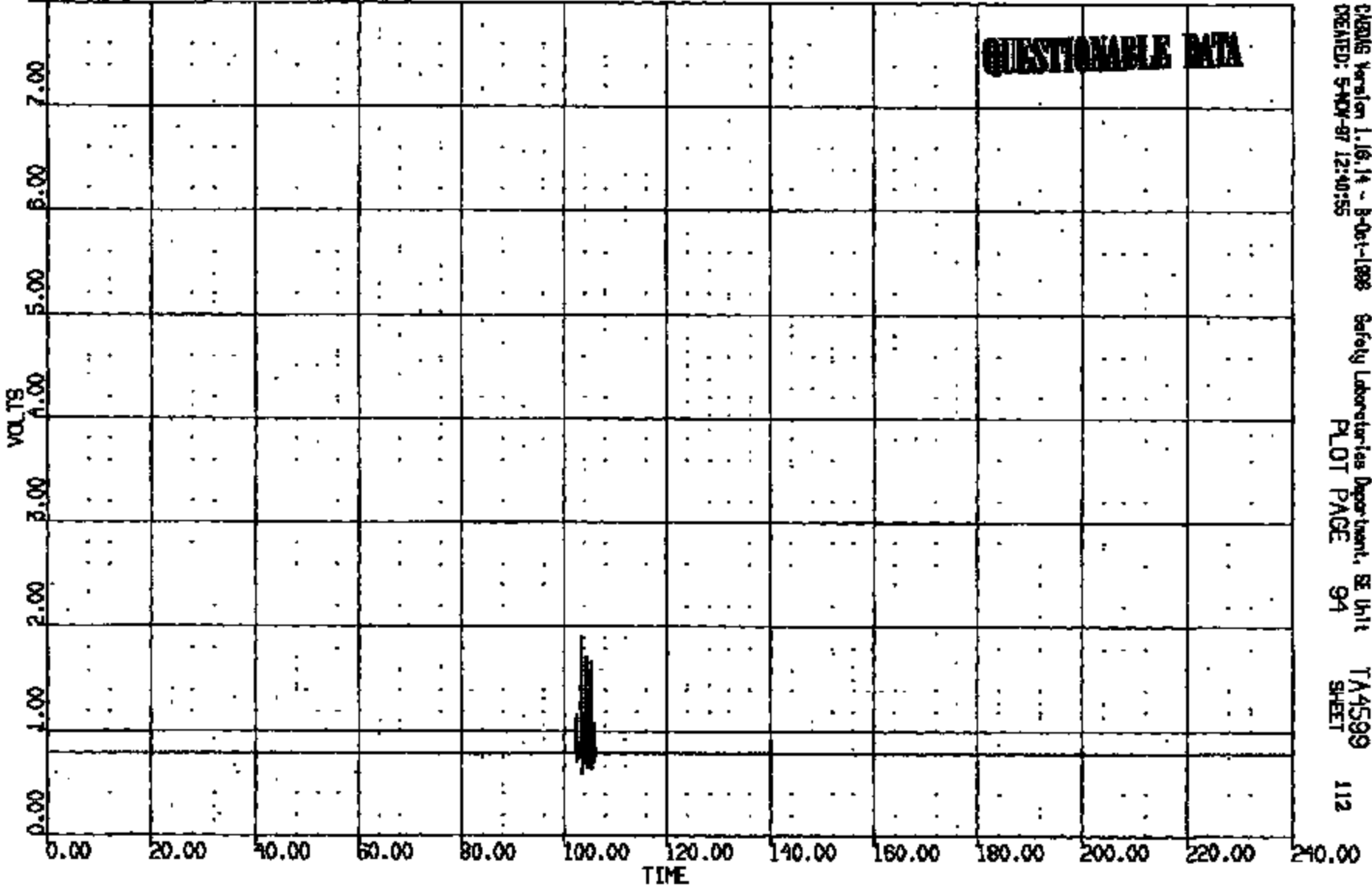
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IN ACCORDANCE WITH ST-25  
REFERENCE 7

(51) CR100068 C/L TML #5 B05CH AML 6000C

MAX = 1.890 at 103.4 MS MIN = 0.9859 at 103.6 MS

AXIS 1

QUESTIONABLE DATA



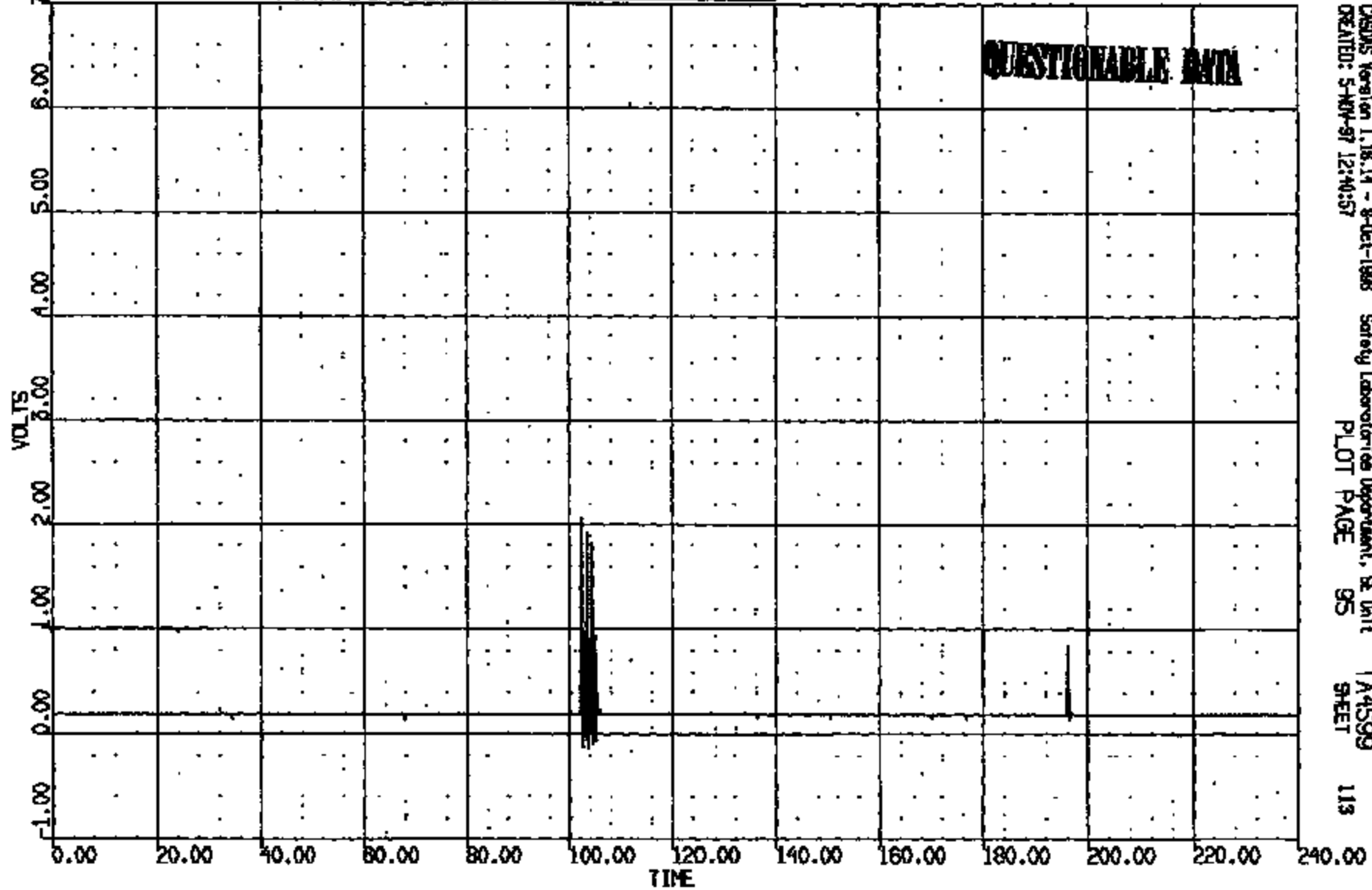
CRABIS Version 1.16.14 - 8-Oct-1998 Safety Laboratories Department, SE Unit TA4599 112  
CREATED: 5-NOV-97 12:40:55 PLOT PAGE 94 SHEET

CR R: 10806 TO: TA4599 DATE: 970821 08:31:21  
199X DN-101 199X DN-101

TIME-ZERO CORRECTED  
IN ACCORDANCE WITH ST-25  
REFERENCE 7

(S2) DR10806B C/L TNL #5 BOSCH FAD 4000C  
MAX = 2.065 at 102.4 MS MIN = -.1318 at 103.6 MS **AXIS 1**

**QUESTIONABLE DATA**



CRS015 Version 1.16.14 - 8-Oct-1998 Safety Laboratories Department, SE Unit TA4599  
CREATED: 5-NV-97 12:40:57 PLOT PAGE 95 SHEET 113

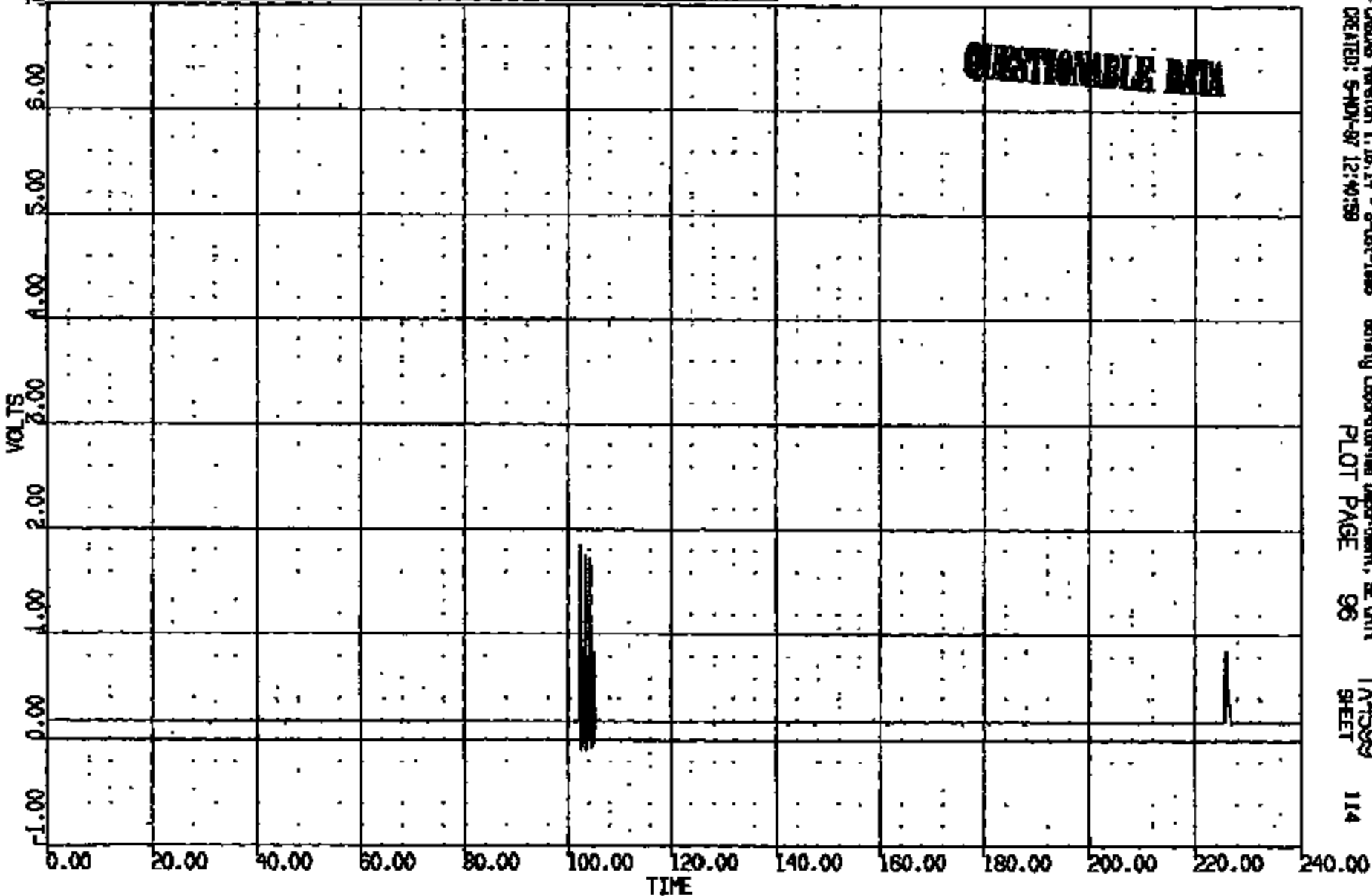
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CR R: 10805 TD: TA4599 DATE: 970821 09:31:21  
189X DN-101 189X DN-101

TIME-ZERO CORRECTED  
IN ACCORDANCE WITH ST-25  
REFERENCE 7

(53) CR108068 C/L TNL #5 BOSCH FAP 4000C  
MAX = 1.800 at 102.4 NS MIN = -.927E-01 at 102.6 NS **AXIS 1**

**QUESTIONABLE DATA**



CASING Version 1.16.14 - 8-Oct-1998 Safety Laboratory Department, EE Unit TA4599  
CREATED: 5-NOV-97 12:40:59 PLOT PAGE 96 SHEET 114

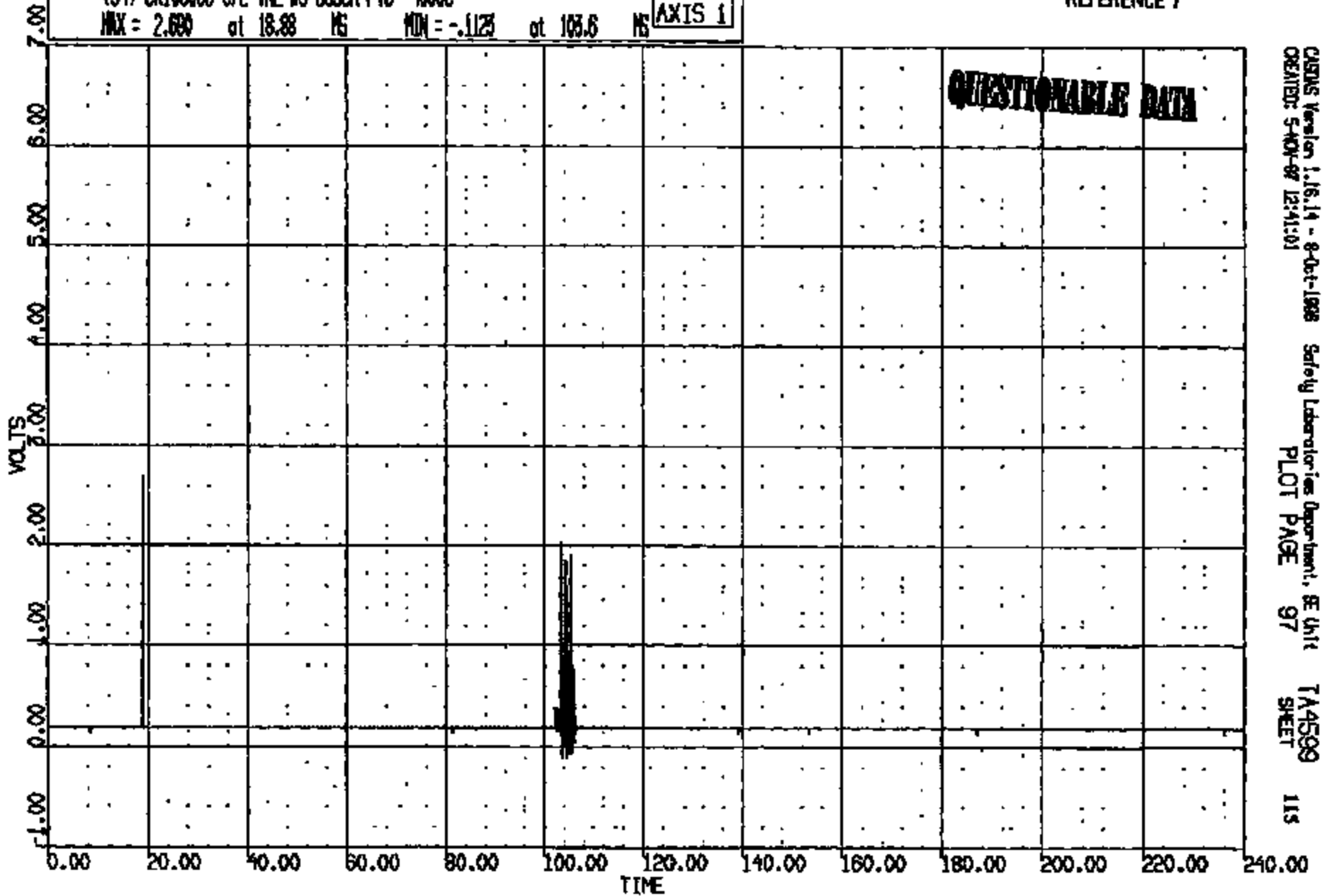
CRTS 0010806

CR R: 10805 TO: TA4598 DATE: 870821 09:31:21  
199X DN-101 199X DN-101

TIME-ZERO CORRECTED  
IN ACCORDANCE WITH SF-25  
REFERENCE 7

(54) CR100068 C/L TML #5 BOSCH PTD 4000C  
MAX = 2.600 at 18.88 MS MIN = -.1125 at 103.6 MS **AXIS 1**

**QUESTIONABLE DATA**



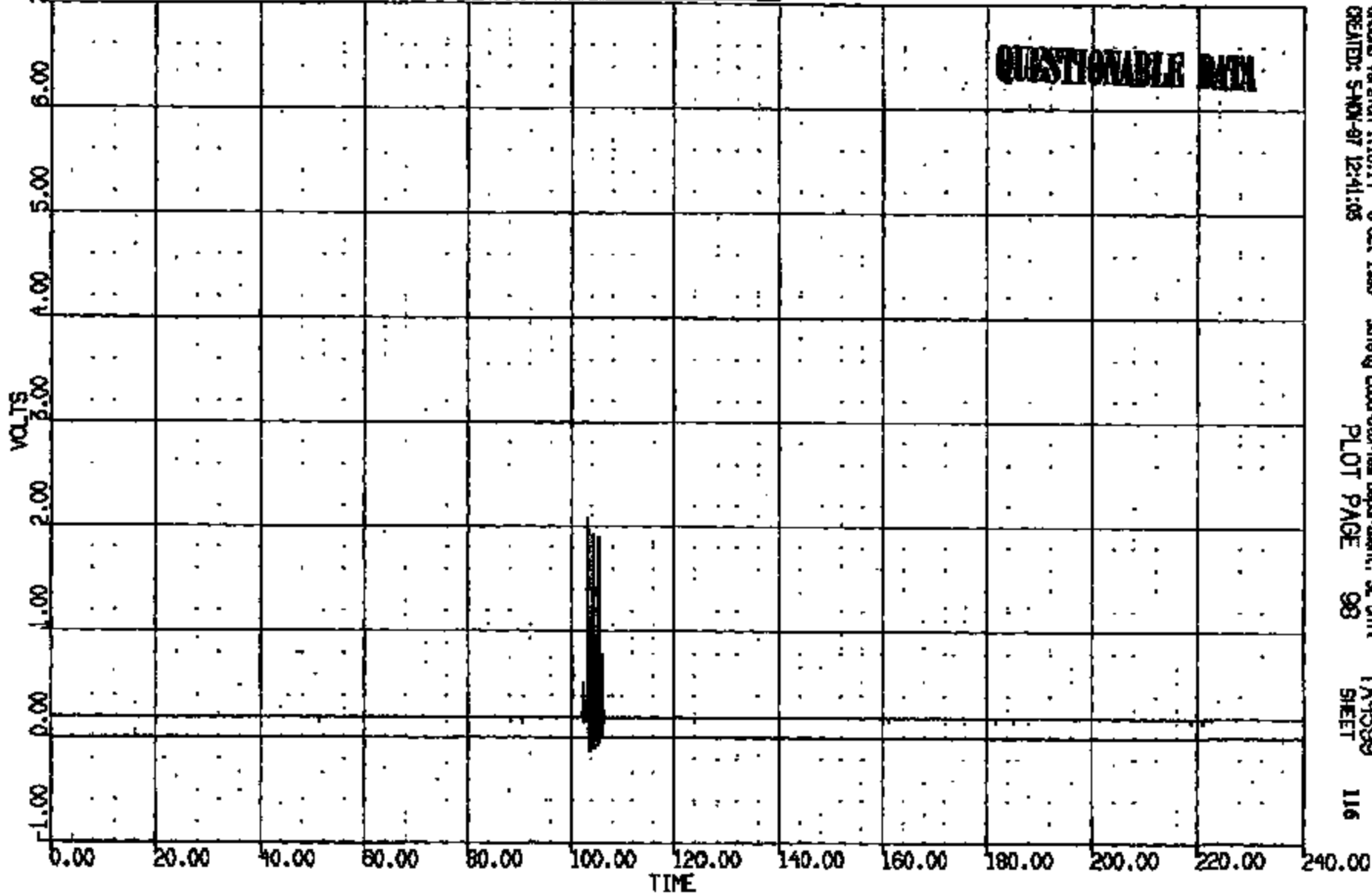
CRTS Version 1.16.14 - 8-Oct-1988 Safety Laboratories Department, SE Unit TA4598  
CREATED: 5-MAY-87 12:41:01 PLOT PAGE 97 SHEET 115

CR R: 10806 TO: TA4598 DATE: 970921 09:51:21  
199X DN-101 199X DN-101

TIME-ZERO CORRECTED  
IN ACCORDANCE WITH ST-25  
REFERENCE 7

(55) CR1000GB C/L TNL #5 BOSCH PTP 4000C  
MAX = 2.000 at 103.4 MS MIN = -.1318 at 103.8 MS **AXIS 1**

QUESTIONABLE DATA



CASIMS Version 1.18.14 - 9-Oct-1998 Safety Laboratories Department, SE Unit TA4598  
CREATED: 5-NON-97 12:41:05 PLOT PAGE 98 SHEET 116

CRIS 0010806

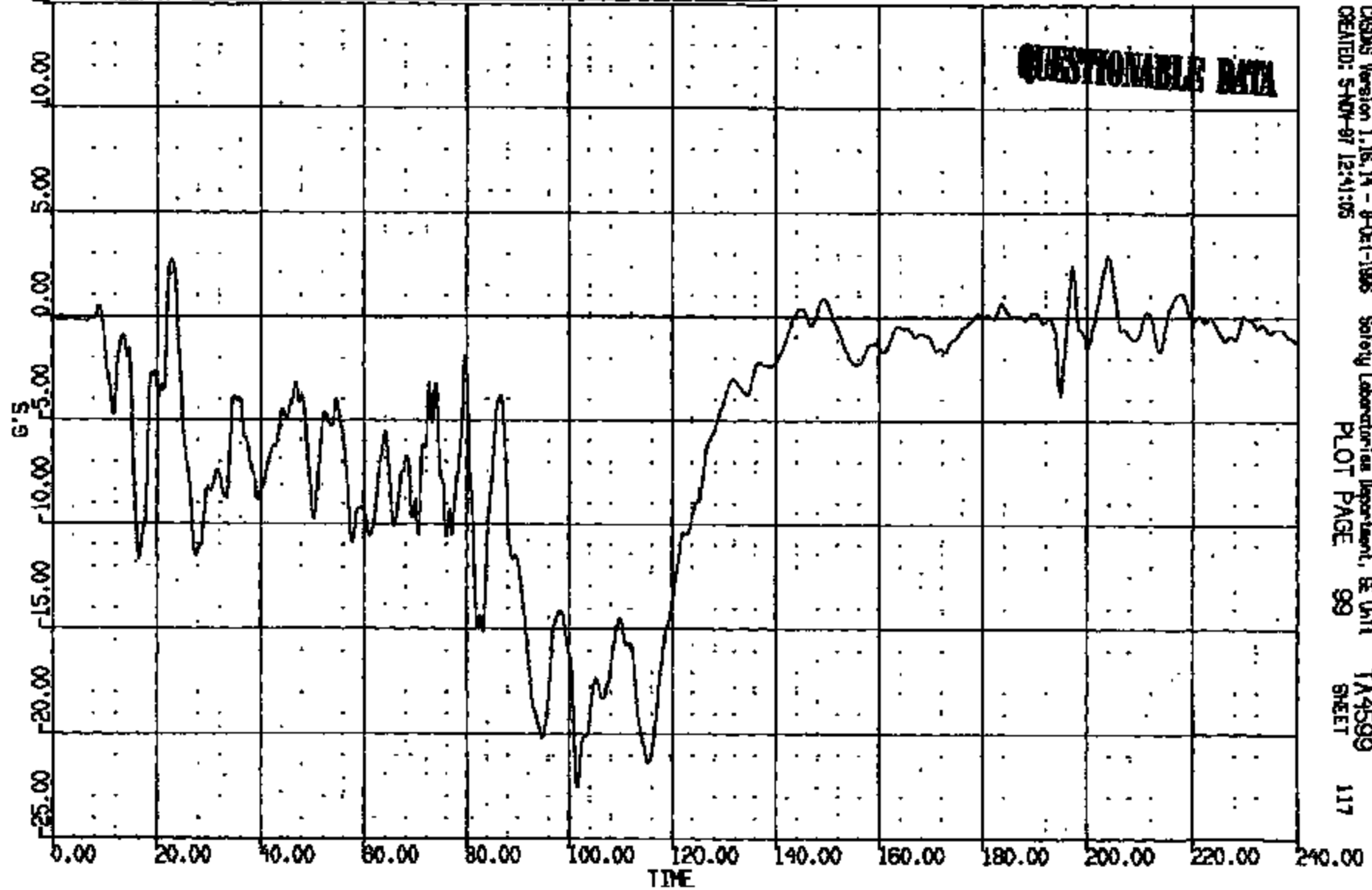


CR R: 10800 TO: TA4599 DATE: 970821 09:31:21  
199X DN-101 199X DN-101

TIME-ZERO CORRECTED  
IN ACCORDANCE WITH ST-25  
REFERENCE 7

(56) CR108008 C/L TNL FND OF F/SEATS SH LONG 60C  
MAX = 2.934 at 204.0 MS MIN = -22.54 at 101.6 MS

AXIS 1



CRSUS Version 1.16.14 - 8-01-1996 Safety Laboratories Department, BE Unit TA4599  
CREATED: 5-NOV-97 12:41:05 PLOT PAGE 99 SHEET 117

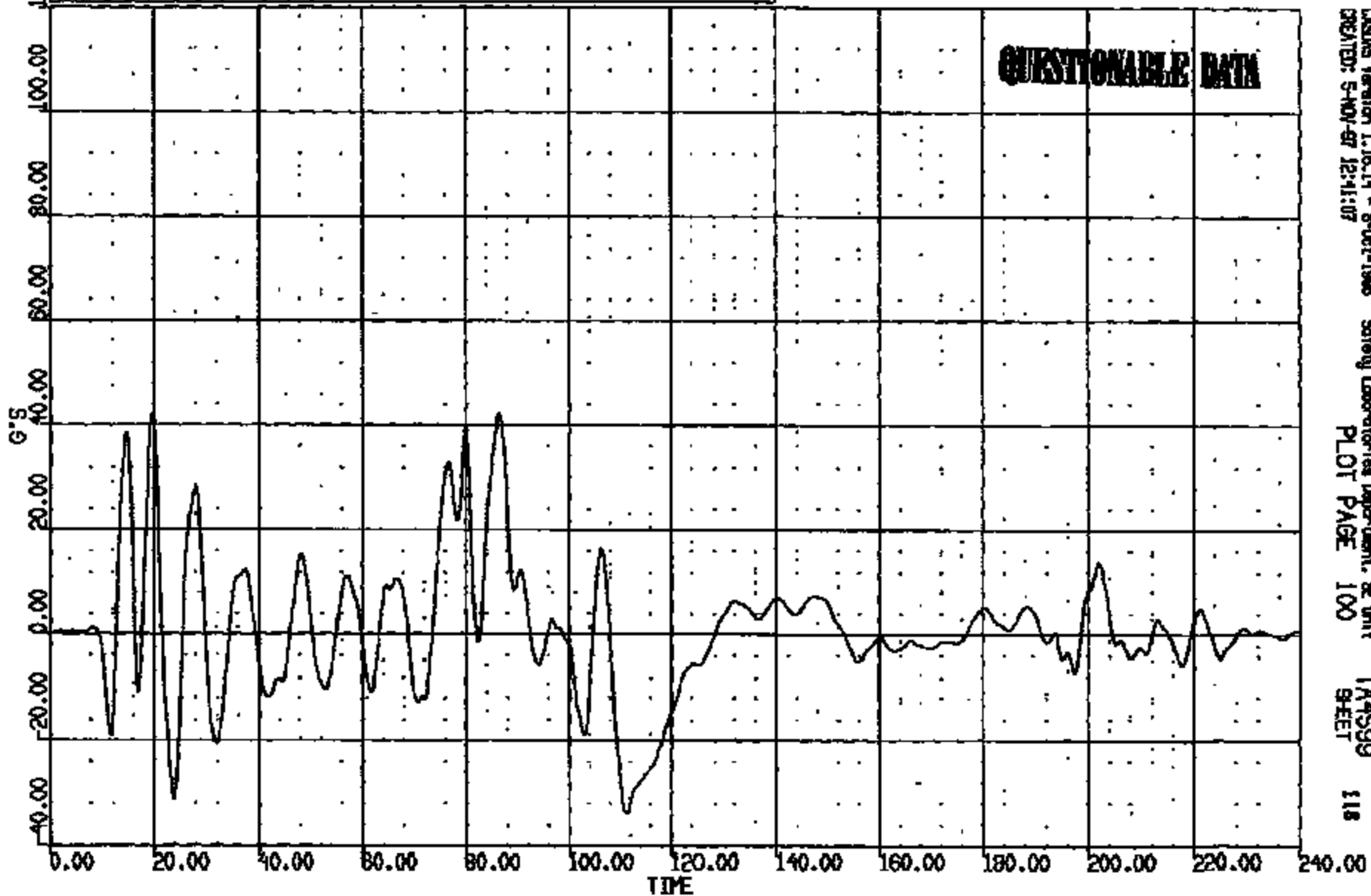
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CR R: 10808 TO: TA4598 DATE: 970821 09:31:21  
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TIME-ZERO CORRECTED  
IN ACCORDANCE WITH ST-25  
REFERENCE 7

(57) CR168068 CAL TNL FND OF F/SEATS ON VERT GDC  
MAX = 42.22 at 19.76 MS MIN = -33.86 at 112.1 MS **AXIS 1**

**QUESTIONABLE DATA**



CRS16 Version 1.18.14 - 8-Oct-1998 Safety Laboratories Department, BE Unit TA4599  
CREATED: 5-MAY-97 12:41:07 PLOT PAGE 100 SHEET 118

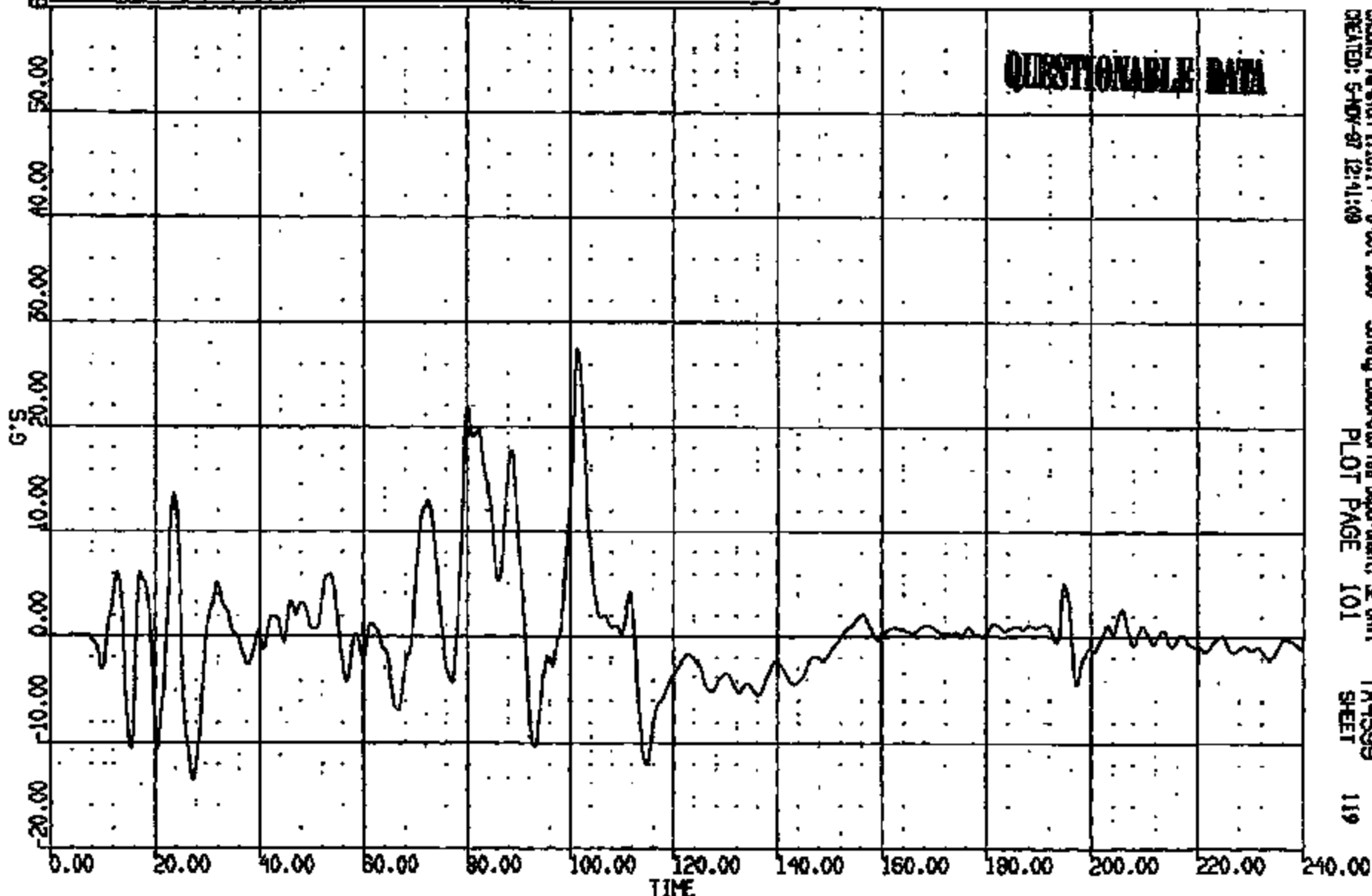
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199X DN-101 199X DN-101

TIME-ZERO CORRECTED  
IN ACCORDANCE WITH ST-25  
REFERENCE 7

(58) CR100063 CAL TNL FND OF F/SEATS SH LAT 60C

MAX = 27.45 at 101.5 MS MIN = -13.56 at 27.36 MS **AXIS 1**

**QUESTIONABLE DATA**



CRSIS Version 1.18.14 - 8-Oct-1998  
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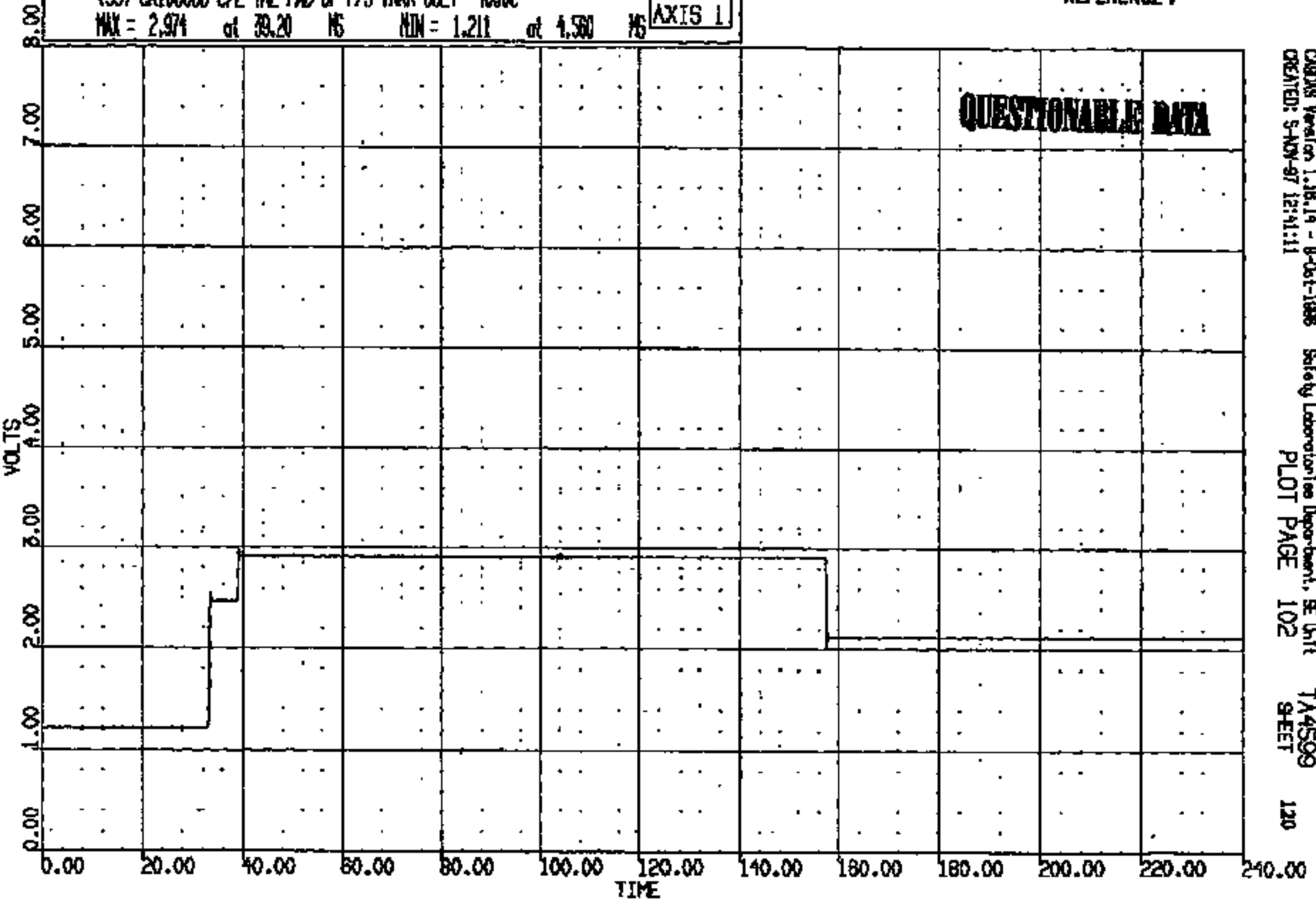
Safety Laboratories Department, SE Unit  
PLOT PAGE 101

TA4599  
SHEET 119

CR R: 10808 TD: TA4599 DATE: 870821 09:51:21  
199X DN-101 199X DN-101

TIME-ZERO CORRECTED  
IN ACCORDANCE WITH ST-25  
REFERENCE 7

(59) CR108068 C/L TML FWD OF F/S TAKA UBLT 4000C  
MAX = 2.974 at 39.20 MS MIN = 1.211 at 4.560 MS **AXIS 1**



CARDAS Version 1.16.14 - 8-Oct-1988 Safety Laboratories Department, SE Unit TA4599  
CREATED: 5-NOV-87 12:41:11 PLOT PAGE 102 SHEET 120

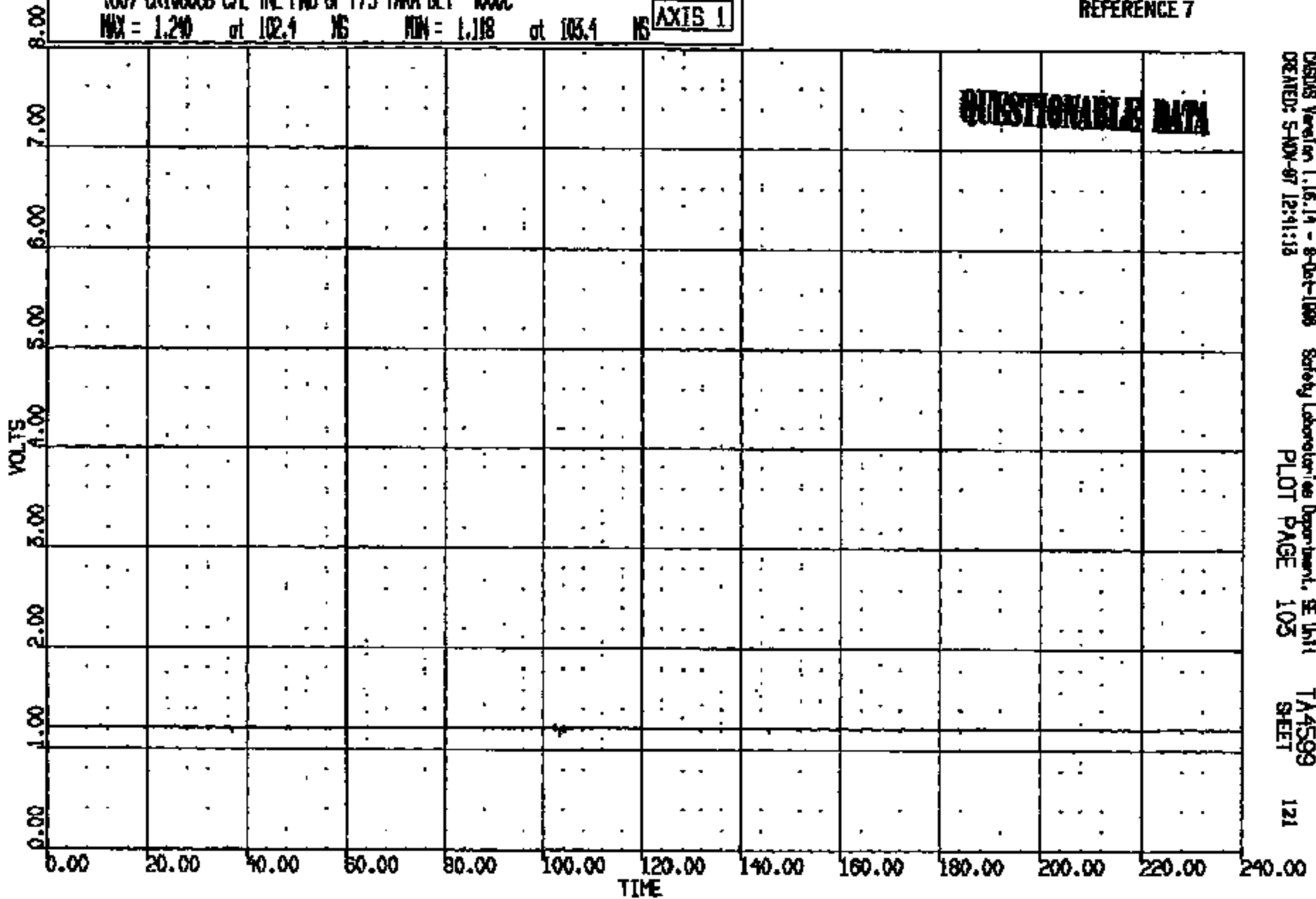
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CR R: 10808 TO: TA4599 DATE: 870821 09:31:21  
199X DN-101 199X DN-101

TIME-ZERO CORRECTED  
IN ACCORDANCE WITH ST-25  
REFERENCE 7

(60) CR100068 C/L IN. END OF F/S TARA BLT 4000C  
MAX = 1.240 at 102.4 NS MIN = 1.118 at 103.4 NS **AXIS 1**

**QUESTIONABLE DATA**



DASDIS Version 1.16.14 - 8-Oct-1989 Safety Laboratory Department, SE Unit TA4599  
CREATED: 5-NOV-87 12:41:18 PLOT PAGE 105 SHEET 121

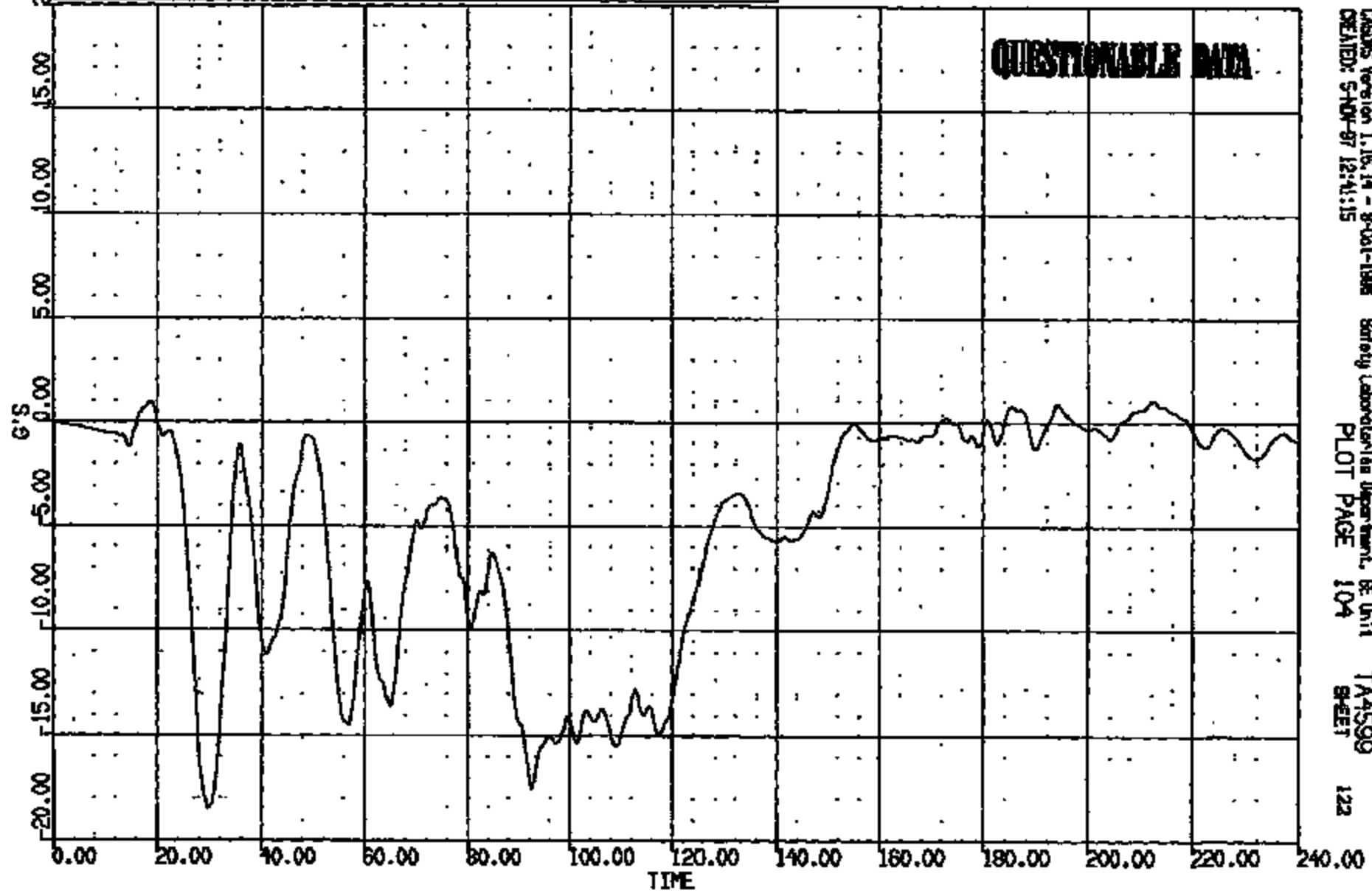
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CR R: 10808 TO: TA4599 DATE: 970821 00:51:21  
199X ON-101 199X ON-101

TIME-ZERO CORRECTED  
IN ACCORDANCE WITH SI-25  
REFERENCE 7

(61) CR108088 L/F DOOR @ BELTLINE MID SM LONG SOC  
MAX = 1.065 at 212.2 MS MIN = -18.46 at 29.84 MS **AXIS 1**

**QUESTIONABLE DATA**



CASIMS Version 1.16.14 - 8-Oct-1998 Safety Laboratories Department, BE Unit TA4599  
CREATED: 5-NV-97 12:41:15 PLOT PAGE 104 SHEET 122

CRIS 0010806

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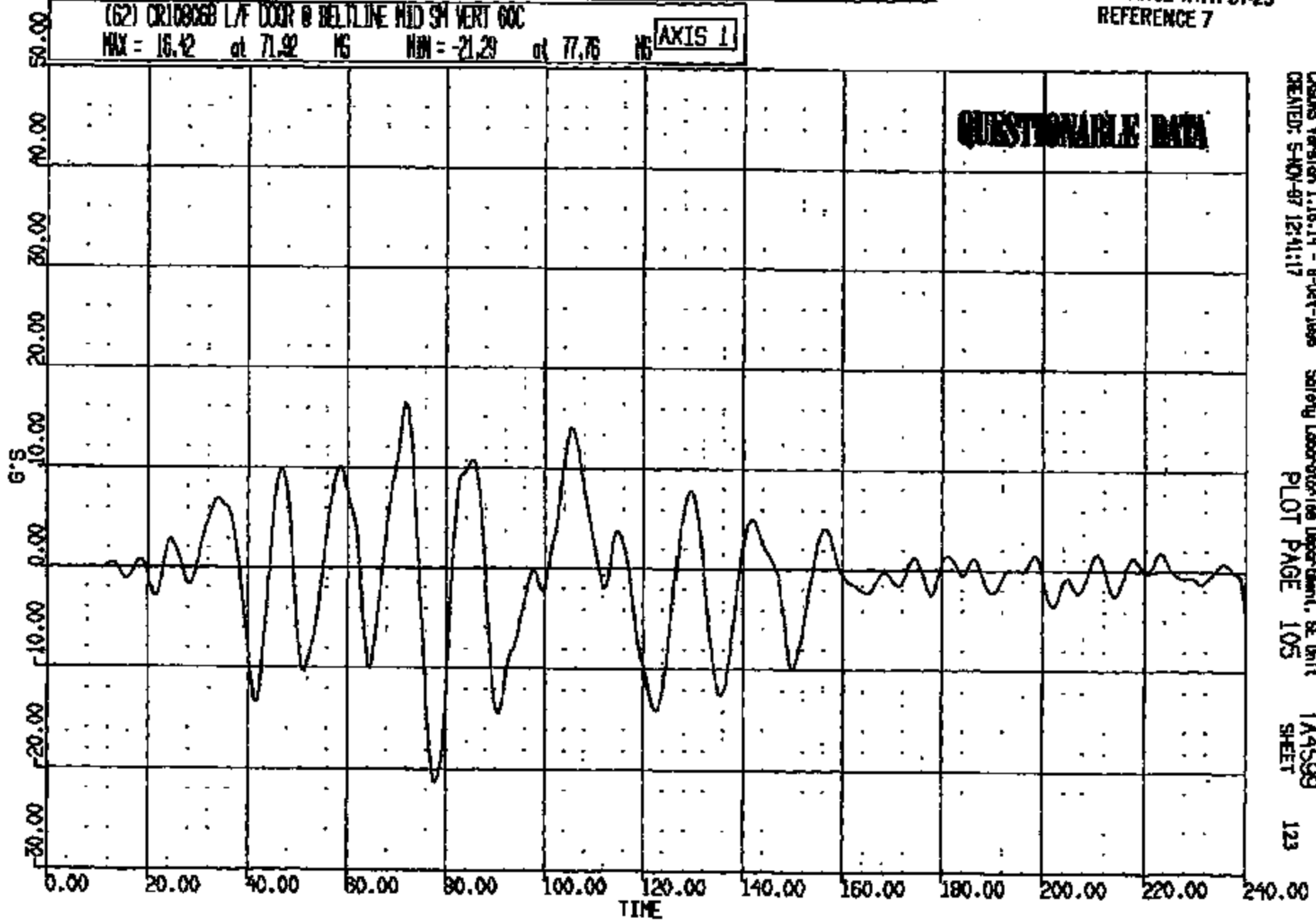
TIME-ZERO CORRECTED  
IN ACCORDANCE WITH ST-25  
REFERENCE 7

(62) CR10806B L/F DOOR @ BELTLINE MID SH VERT GOC

MAX = 16.42 at 71.92 MS MIN = -21.29 at 77.76 MS

AXIS 1

QUESTIONABLE DATA



CRSNG Version 1.18.14 - 8-Oct-1998 Safety Laboratories Department, SE Unit  
CREATED: 5-AUG-97 12:41:17 PLOT PAGE 105 SHEET 123

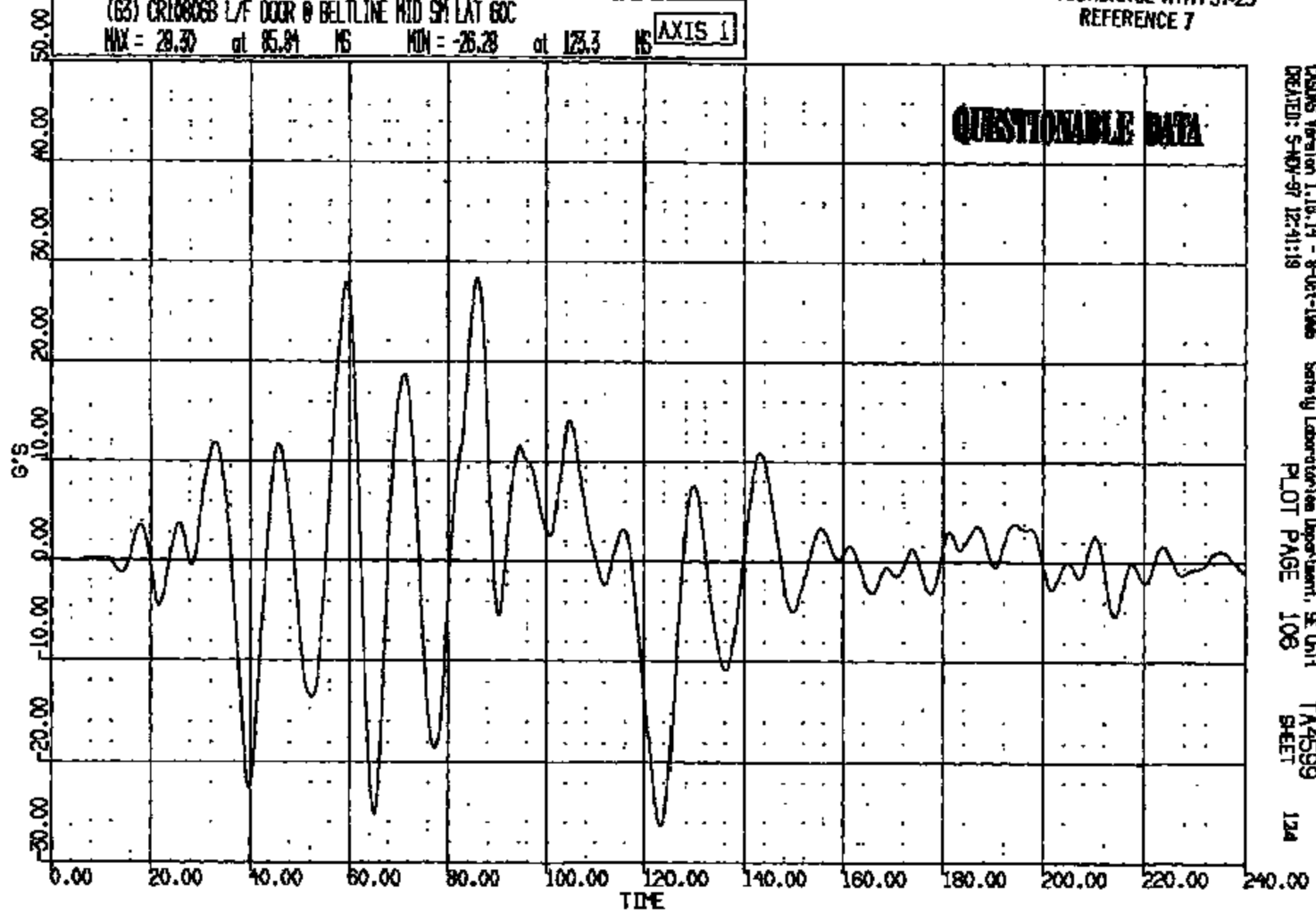
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TIME-ZERO CORRECTED  
IN ACCORDANCE WITH ST-25  
REFERENCE 7

(63) CR10808 L/F DOOR @ BELTLINE MID SPY LAT 60C  
MAX = 28.37 at 65.84 MS MIN = -26.28 at 123.3 MS **AXIS 1**

**QUESTIONABLE DATA**



CASMS Version 1.10.19 - 8-Oct-1995 Safety Laboratory Department, SE Unit 1  
CREATED: 5-NOV-97 12:41:19 PLOT PAGE 106 SHEET 124

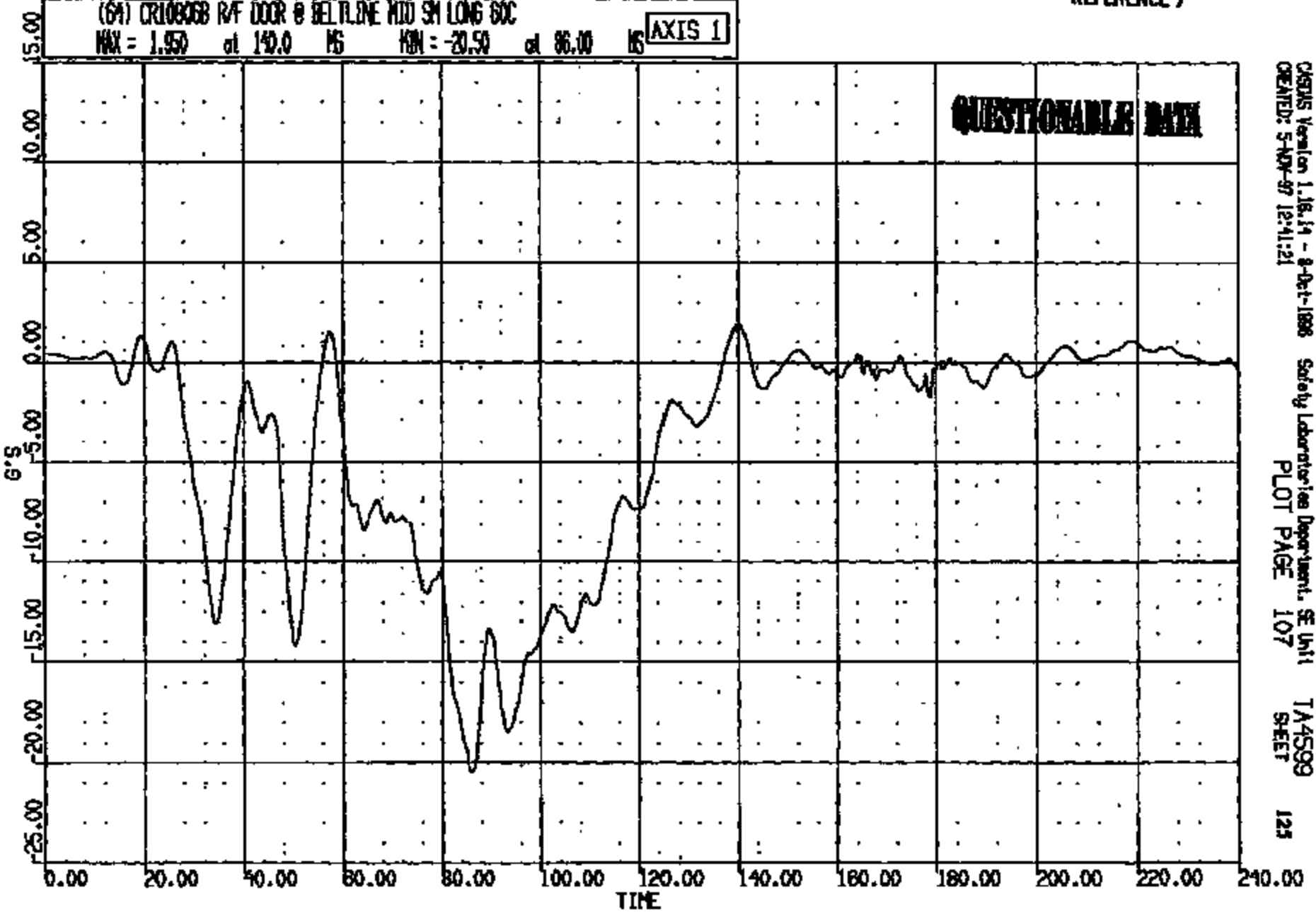
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CR R: 10809 TD: TA4599 DATE: 970821 09:31:21  
189X DN-101 189X DN-101

TIME-ZERO CORRECTED  
IN ACCORDANCE WITH ST-25  
REFERENCE 7

(64) CR108038 RVF DOOR @ BELTLINE MID SH LONG SOC  
MAX = 1.95 at 140.0 MS MIN = -20.50 at 86.00 MS **AXIS 1**



CRSIS Version 1.16.14 - 8-Oct-1998 Safety Laboratories Department, SE Unit  
CREATED: 5-AUG-97 12:41:21  
PLOT PAGE 107  
TA4599  
SHEET 125

CRTS 0010806

CR R: 10808 TC: TA4599 DATE: 970821 09:31:21  
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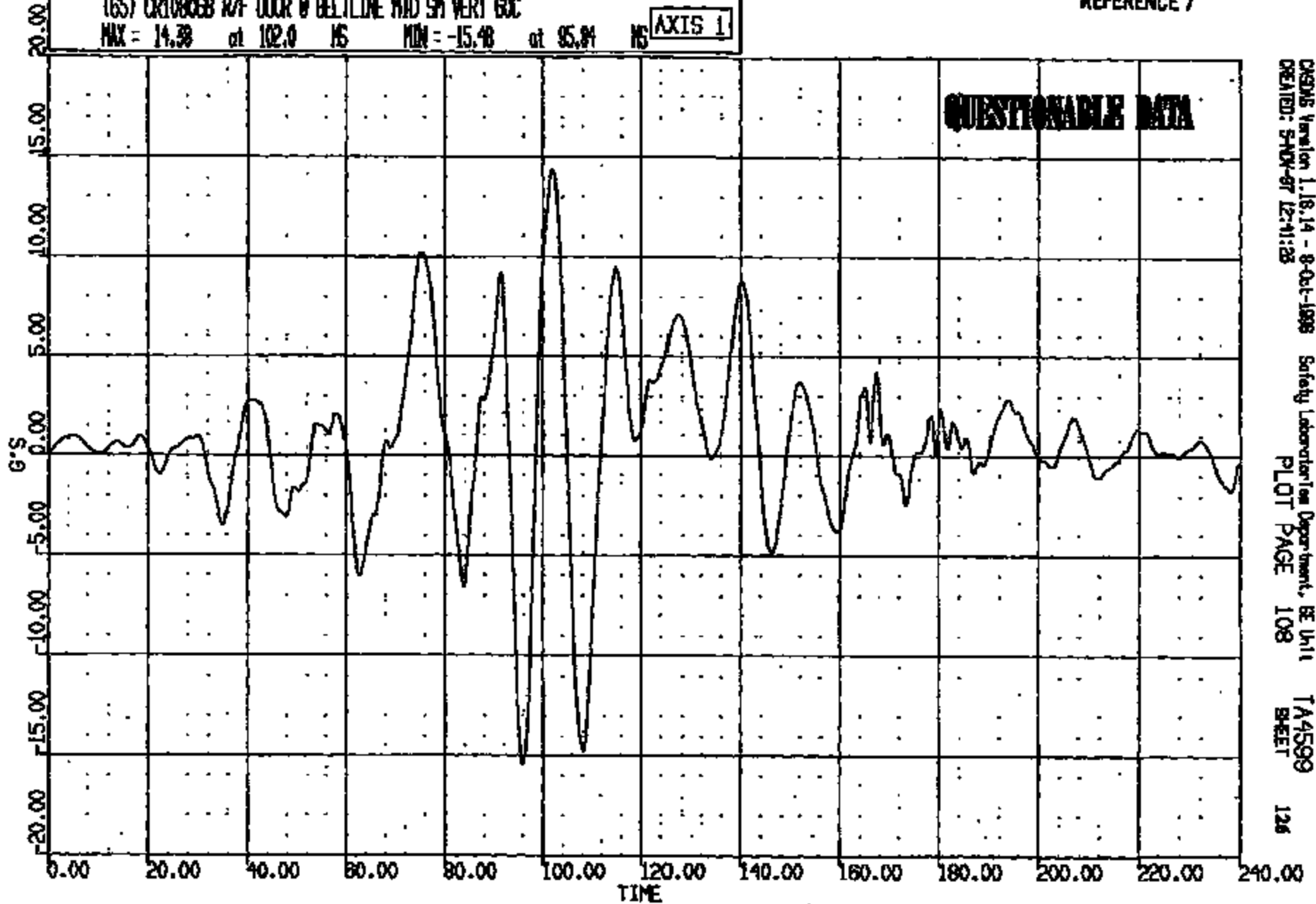
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IN ACCORDANCE WITH ST-25  
REFERENCE 7

(65) CR10808B R/F DOOR @ BELTLINE MID SH VERT 60C

MAX = 14.38 at 102.0 MS MIN = -15.48 at 95.84 MS

AXIS 1

QUESTIONABLE DATA



CRS/MS Version 1.18.14 - 8-Oct-1999  
CREATED: 5-NOV-97 12:41:23

Safety Laboratory Inc Department, BE Unit 1  
PLOT PAGE 108

TA4599  
SHEET

126

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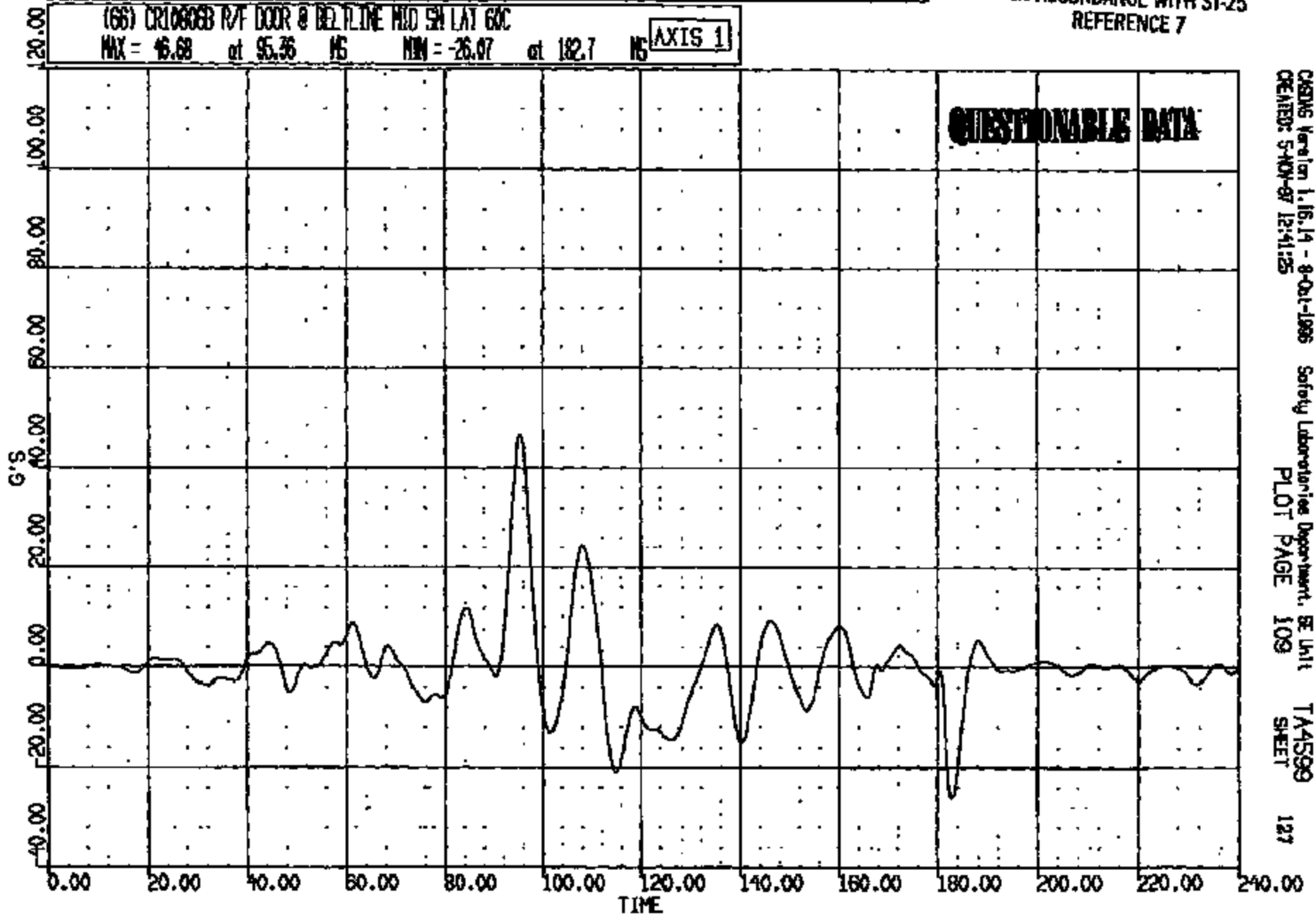
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IN ACCORDANCE WITH ST-25  
REFERENCE 7

(66) CR10806B R/F DOOR @ DELT LINE MID SH LAT 60C

MAX = 46.68 at 95.36 MS MIN = -26.07 at 182.7 MS

AXIS 1

QUESTIONABLE DATA

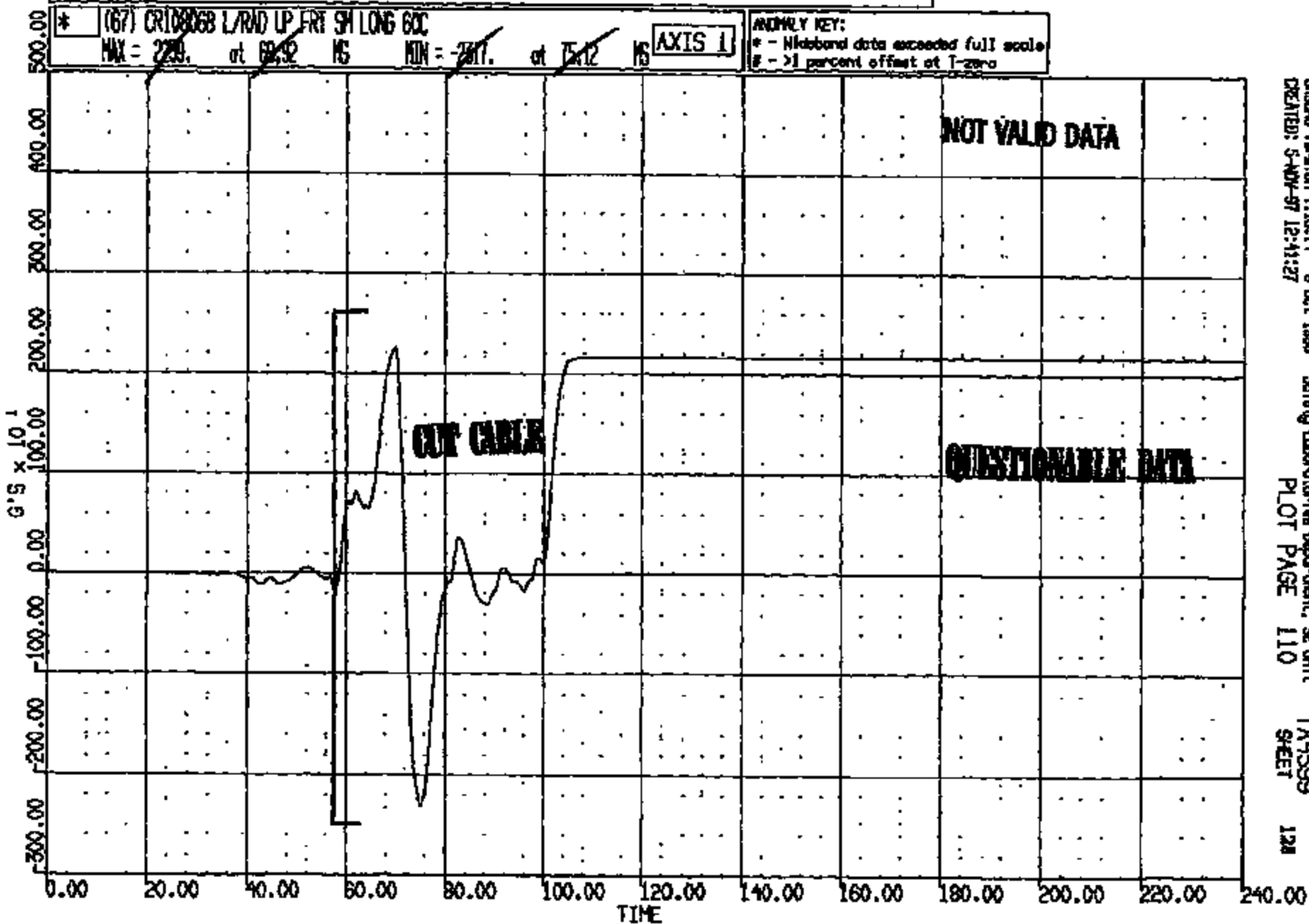


CRSNG Version 1.16.14 - 8-Oct-1996 Safety Laboratories Department, SE Unit TA4599  
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CRTS 0010806

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TIME-ZERO CORRECTED  
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REFERENCE 7



CASINS Version 1.16.14 - 8-Oct-1986  
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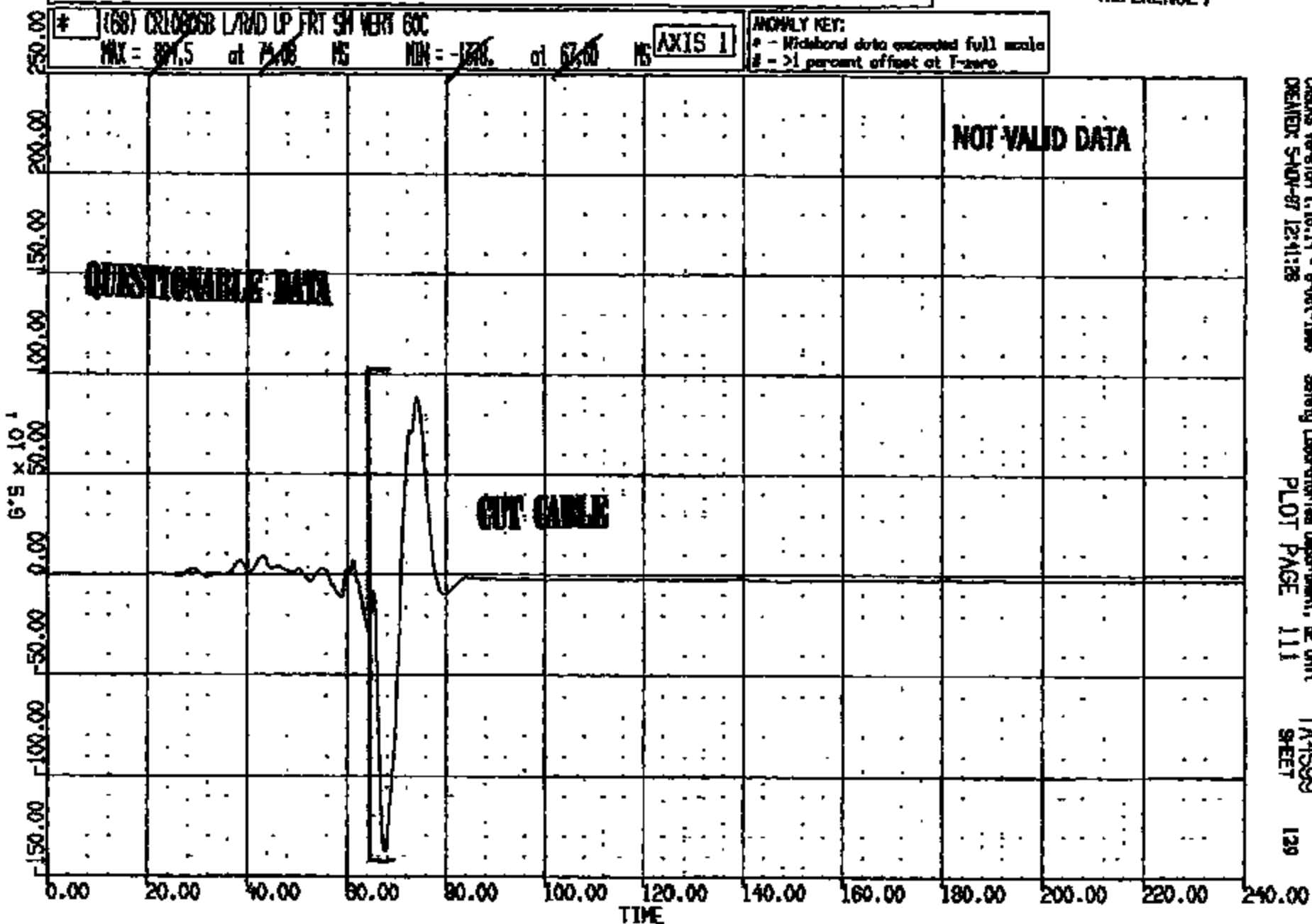
Safety Laboratories Department, SE Unit

PLOT PAGE 110  
TA4599  
SHEET

121

CR R: 10808 TO: TA4599 DATE: 870821 08:51:21  
100X DN-101 100X DN-101

TIME-ZERO CORRECTED  
IN ACCORDANCE WITH ST-25  
REFERENCE 7



CRSRS Version L1614 - 8-Oct-1988  
CREATED: 5-AUG-87 12:41:28

Safety Laboratories Department, SE Unit  
PLOT PAGE 111

TA4599  
SHEET

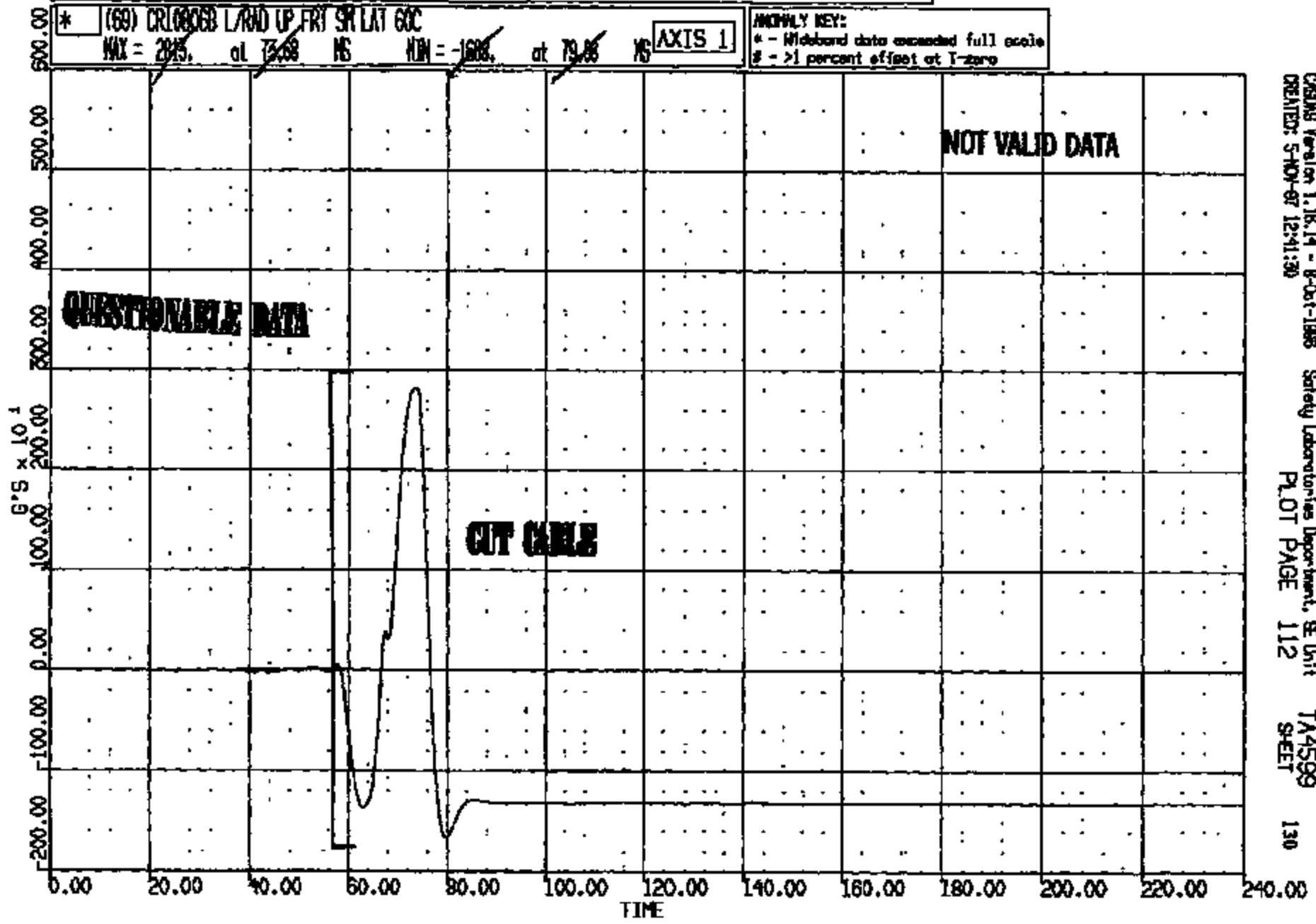
129

CR #: 10806 TO: TA4599 DATE: 970821 09:51:21  
199X DN-101 199X DN-101

TIME-ZERO CORRECTED  
IN ACCORDANCE WITH ST-25  
REFERENCE 7

\* (69) CR08063 L/RAD UP FRY SR LAT 60C  
MAX = 2845. at 73.68 MS MIN = -1608. at 79.86 MS **AXIS 1**

ANOMALY KEY:  
\* - Midboard data exceeded full scale  
# - >1 percent effect of T-zero



CRSMB Version 1.16.14 - 8-Oct-1999 Safety Laboratories Department, SE Unit TA4599  
CREATED: 5-NOV-97 12:41:30 PLOT PAGE 112 SHEET 130

CRTS 0010806

CR R: 10806 TC: TA4599 DATE: 970821 09:51:21  
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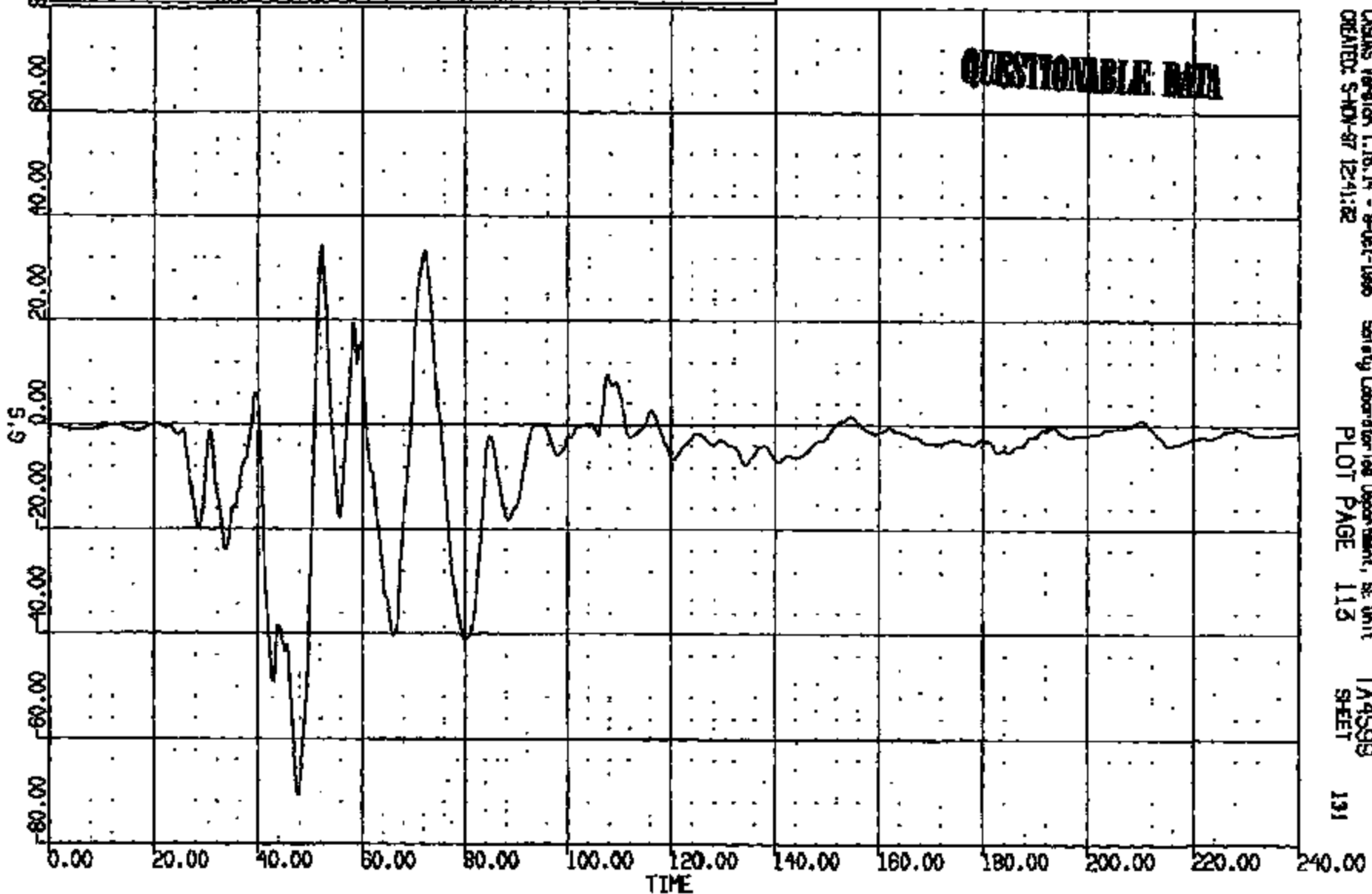
TIME-ZERO CORRECTED  
IN ACCORDANCE WITH SI-25  
REFERENCE 7

(70) CR10006B P/RAD UP FRT SH LONG 60C

MAX = 34.26 at 52.24 MS MIN = -70.71 at 47.60 MS

AXIS 1

QUESTIONABLE DATA



CRSUS Version 1.18.14 - 9-04-1998  
CREATED: S-M-D-97 12:41:32

Safety Laboratories Department, SE Unit  
PLOT PAGE 113

TA4599  
SHEET

131

CR R: 10800 TO: TA4599 DATE: 870821 09:51:21  
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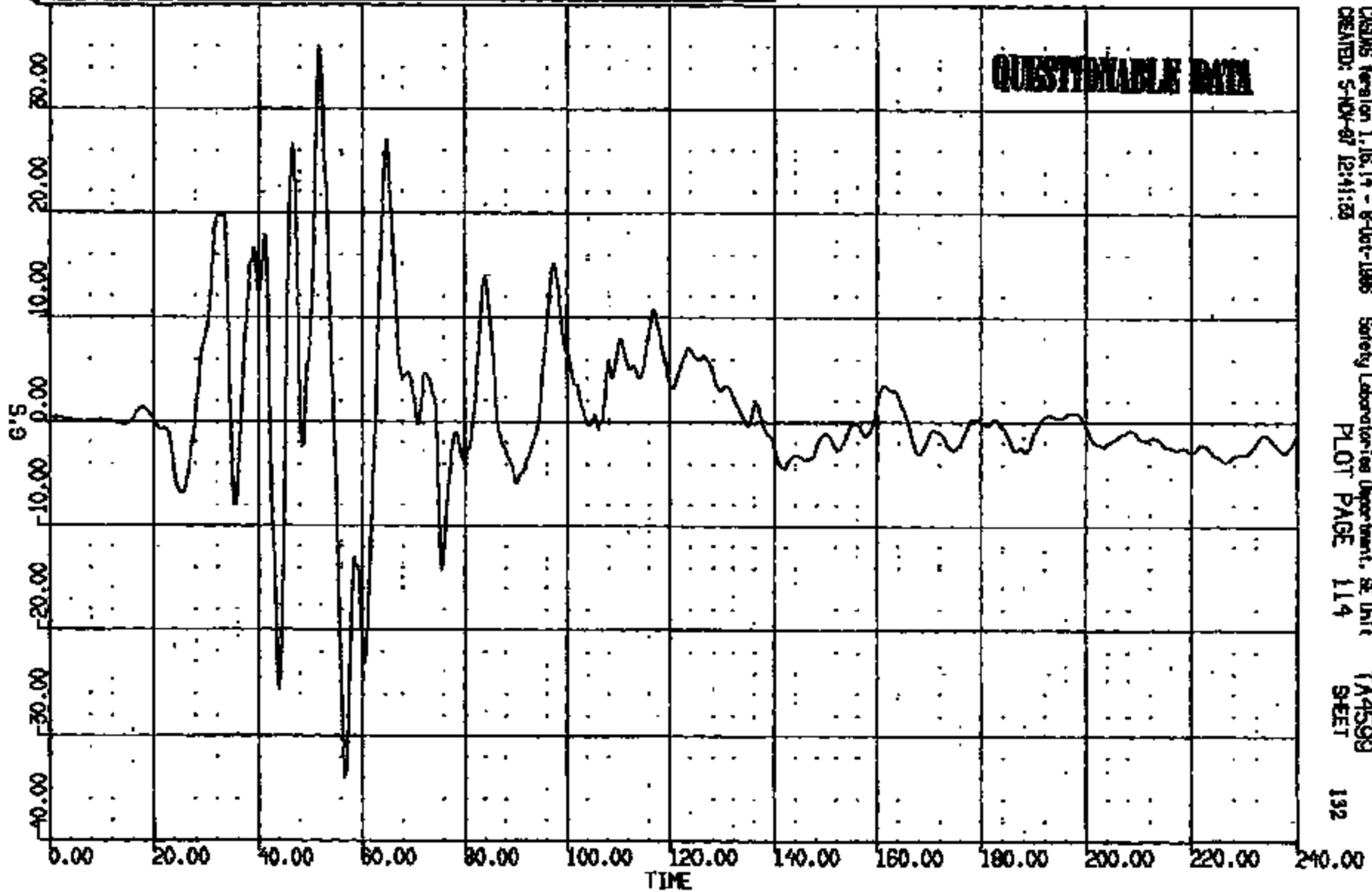
TIME-ZERO CORRECTED  
IN ACCORDANCE WITH ST-25  
REFERENCE 7

(71) CR100068 R/RND UP FRT SH VERT GOC

MAX = 35.90 at 51.68 NS MIN = -33.91 at 56.80 NS

AXIS 1

QUESTIONABLE DATA



CASMS Version 1.16.14 - 8-Oct-1988  
CREATED: 5-NOV-87 12:41:23

Safety Laboratories Department, SE Unit  
PLOT PAGE 114

TA4599  
SHEET

132

CRTS 0010806



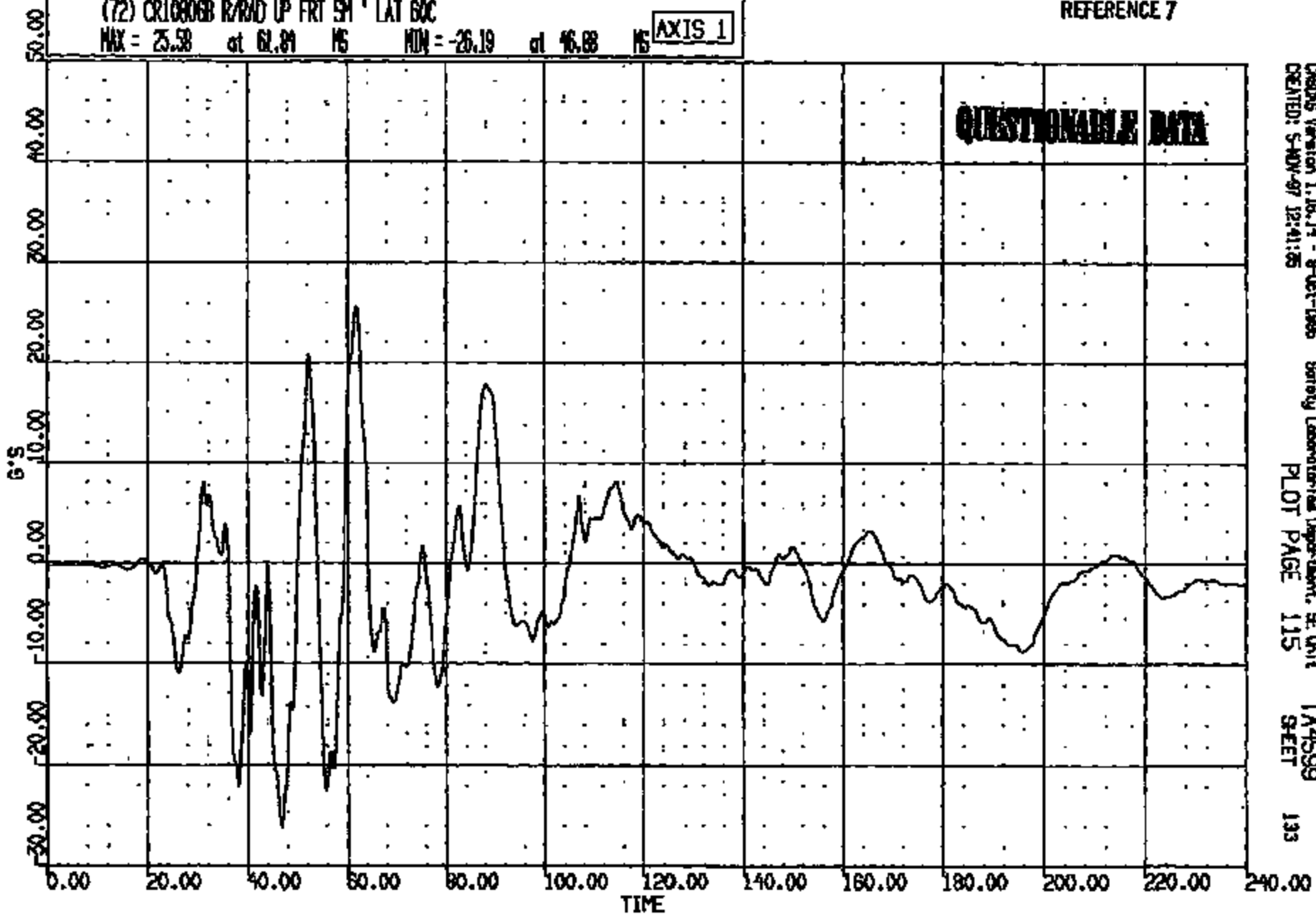
CR #: 10806 TO: TA4598 DATE: 870821 08:31:21  
199X DN-101 199X DN-101

TIME-ZERO CORRECTED  
IN ACCORDANCE WITH ST-25  
REFERENCE 7

(72) CR10906B R/RND UP FRT 5M \* LAT 60C

MAX = 25.58 at 62.81 MS MIN = -26.19 at 46.88 MS

AXIS 1



CASINS Version 1.18.14 - 8-Oct-1985  
CREATED: 5-NOV-87 12:41:25

Berkeley Laboratories Department, SE Unit  
PLOT PAGE 115

TA4598  
SHEET

133

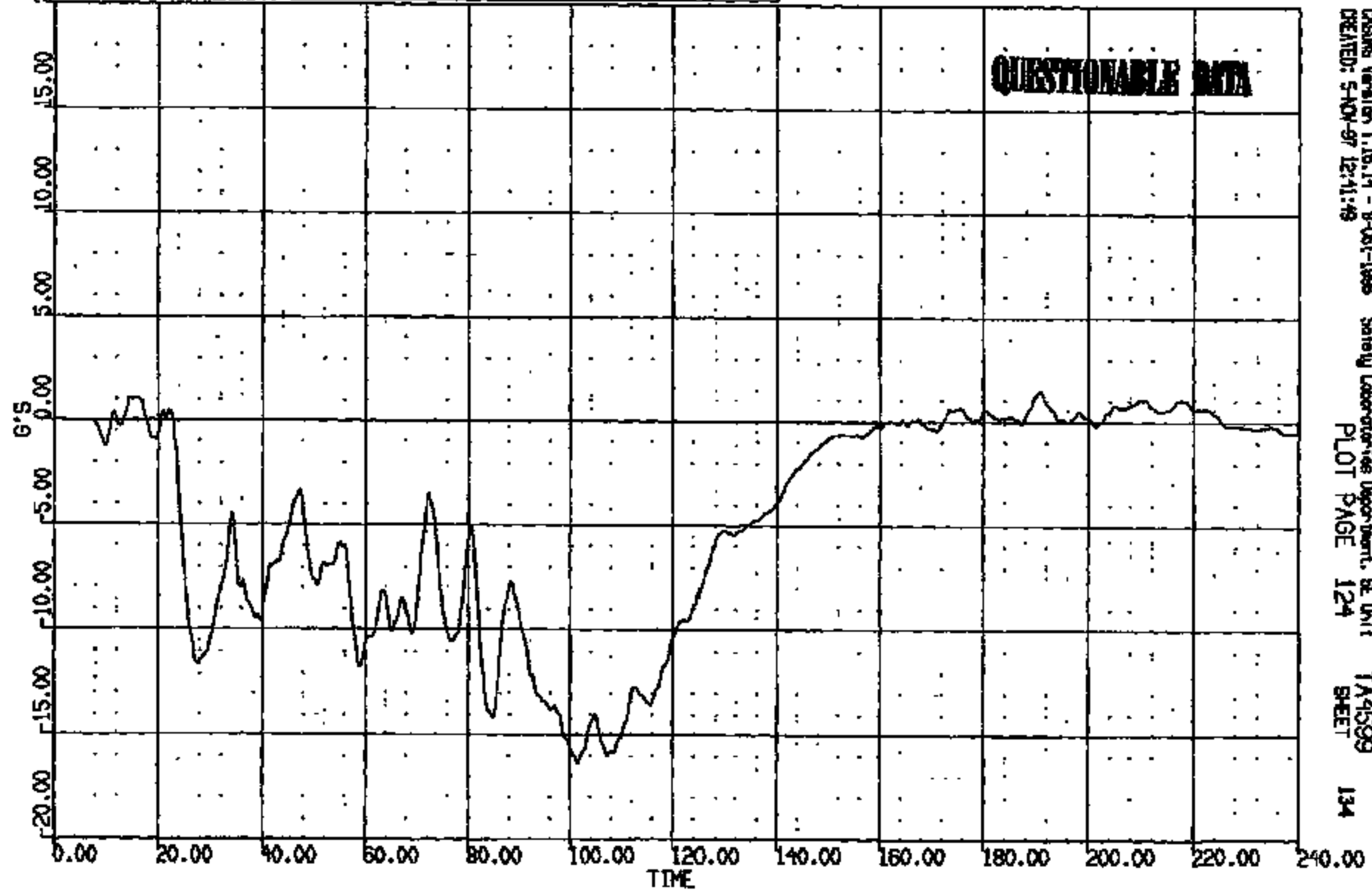
CR R: 10808 TO: TA4599 DATE: 970821 09:31:21  
199X DN-101 199X DN-101

TIME-ZERO CORRECTED  
IN ACCORDANCE WITH SI-25  
REFERENCE 7

(81) CR108088 L/ROCKER @ B-PILLAR LONG GOC  
MAX = 1.485 at 190.8 NS MIN = -16.37 at 101.5 NS

AXIS 1

QUESTIONABLE DATA

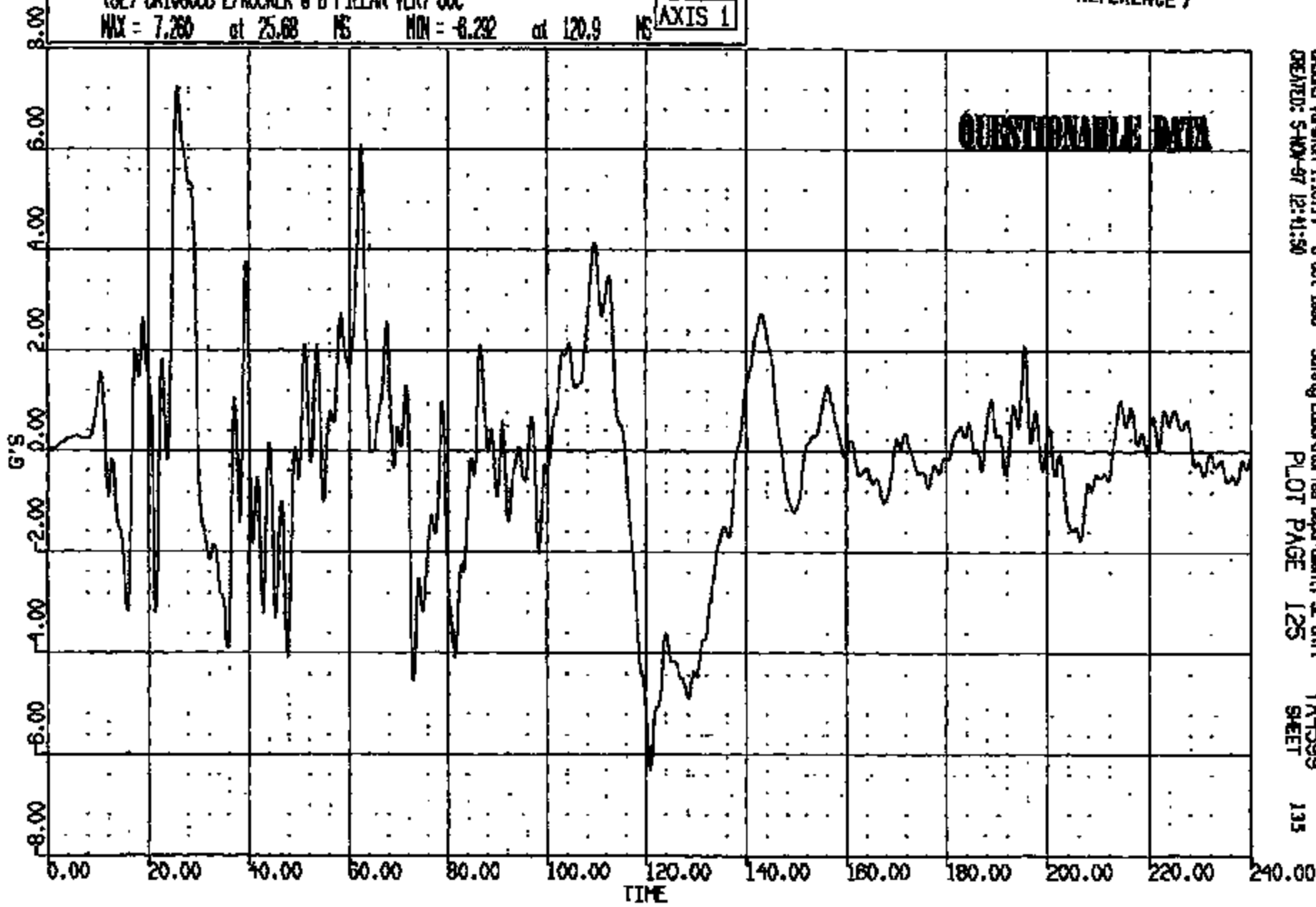


CASINS Version 1.08.14 - 8-01-1998 Safety Laboratories Department, SE Unit  
CREATED: 5-AUG-97 12:41:48  
PLOT PAGE 124 SHEET 134

CR R: 10806 TO: TA4599 DATE: 970821 09:31:21  
189X DN-101 189X DN-101

TIME-ZERO CORRECTED  
IN ACCORDANCE WITH ST-25  
REFERENCE 7

(82) CR10806B L/ROCKER @ B-PILLAR VERT 50C  
MAX = 7.260 at 25.68 MS MIN = -6.292 at 120.9 MS **AXIS 1**



CASING Version 1.16.14 - 8-Oct-1995 Safety Laboratories Department, SE Unit TA4599  
CREATED: 5-NOV-97 12:41:50 PLOT PAGE 125 SHEET 135

CRIS 0010806

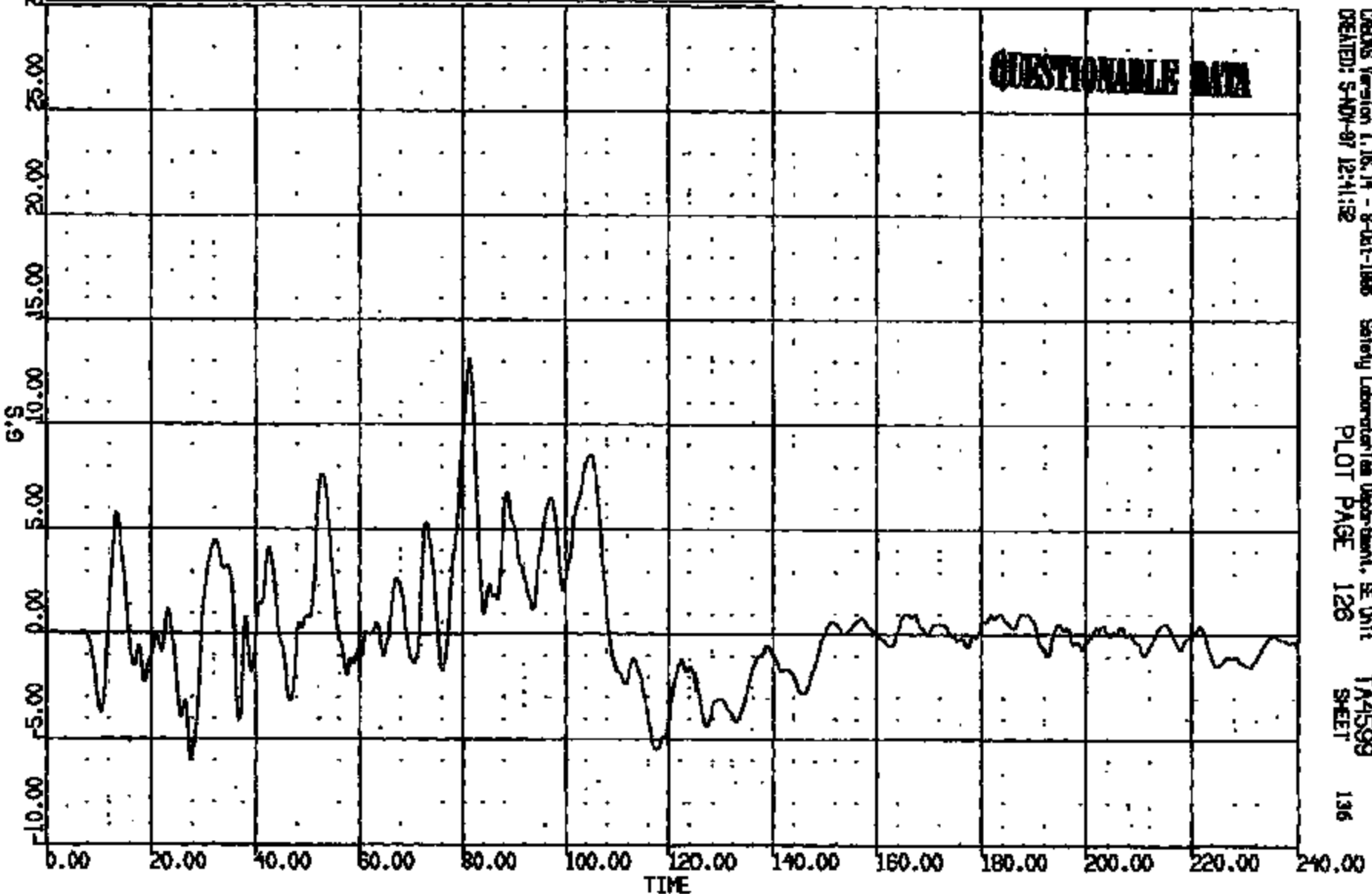
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188X DN-101 188X DN-101

TIME-ZERO CORRECTED  
IN ACCORDANCE WITH ST-25  
REFERENCE 7

(83) CR10808B LADDER @ B-PILLAR LAT 60C  
MAX = 13.09 at 81.36 NS MIN = -6.927 at 27.08 NS

AXIS 1

QUESTIONABLE DATA



ORION Version 1.16.14 - 8-Oct-1988 Safety Laboratories Department, SE Unit  
CREATED: 5-ADY-87 12:41:52 PLOT PAGE 128 SHEET 136

CRTS 0010806

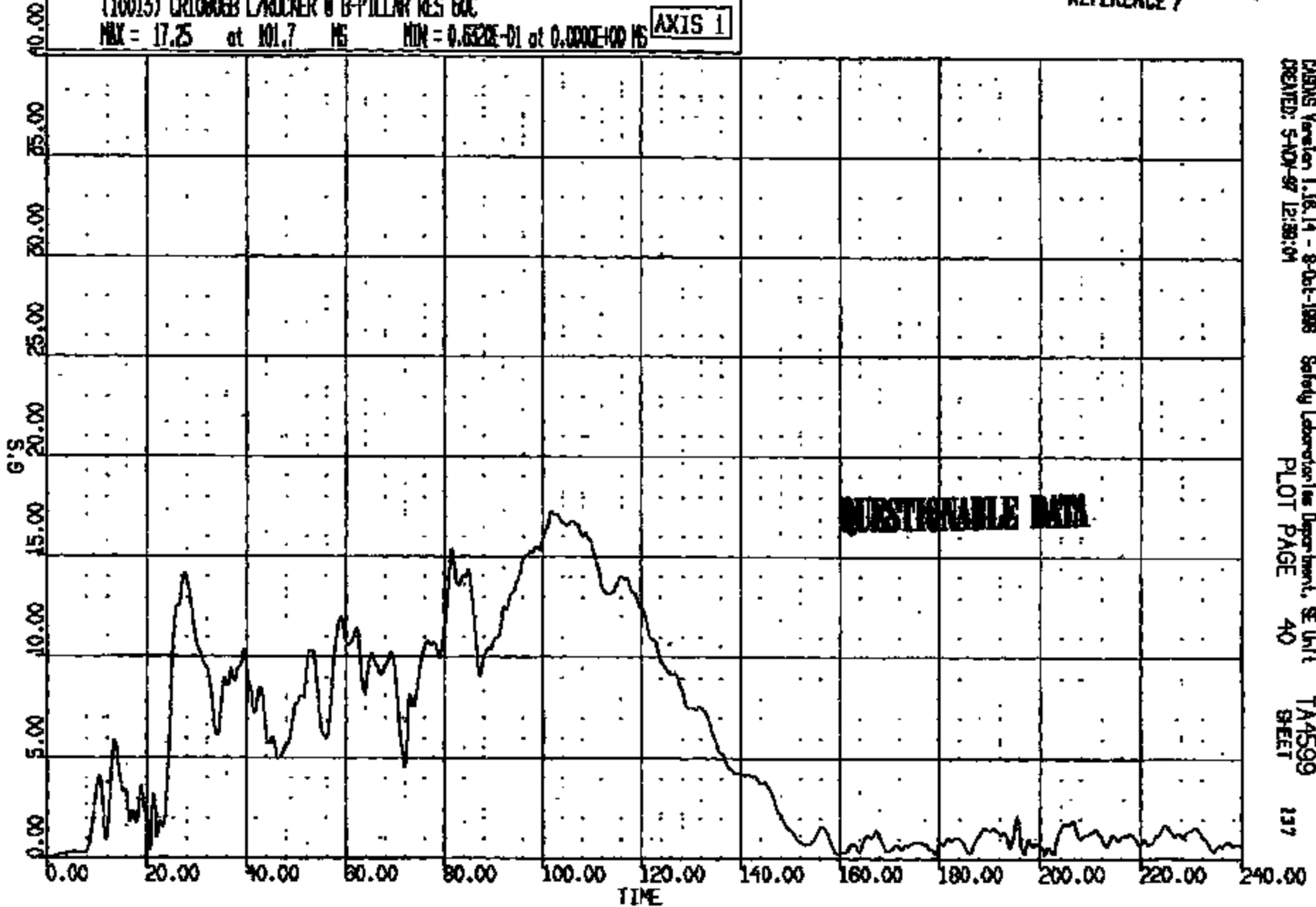
CR R: 10808 TO: TA4599 DATE: 970821 09:31:21  
199X DN-101 199X DN-101

TIME-ZERO CORRECTED  
IN ACCORDANCE WITH ST-25  
REFERENCE 7

(10013) CR10808B LADDER @ B-PILLAR RES 60C

MAX = 17.25 at 101.7 MS MIN = 0.6520E-01 at 0.000E+00 MS

AXIS 1



CAENS Version 1.18.14 - 8-Oct-1998 Safety Laboratories Department, SE Unit TA4599  
CREATED: 5-NOV-97 12:58:04 PLOT PAGE 40 SHEET 137

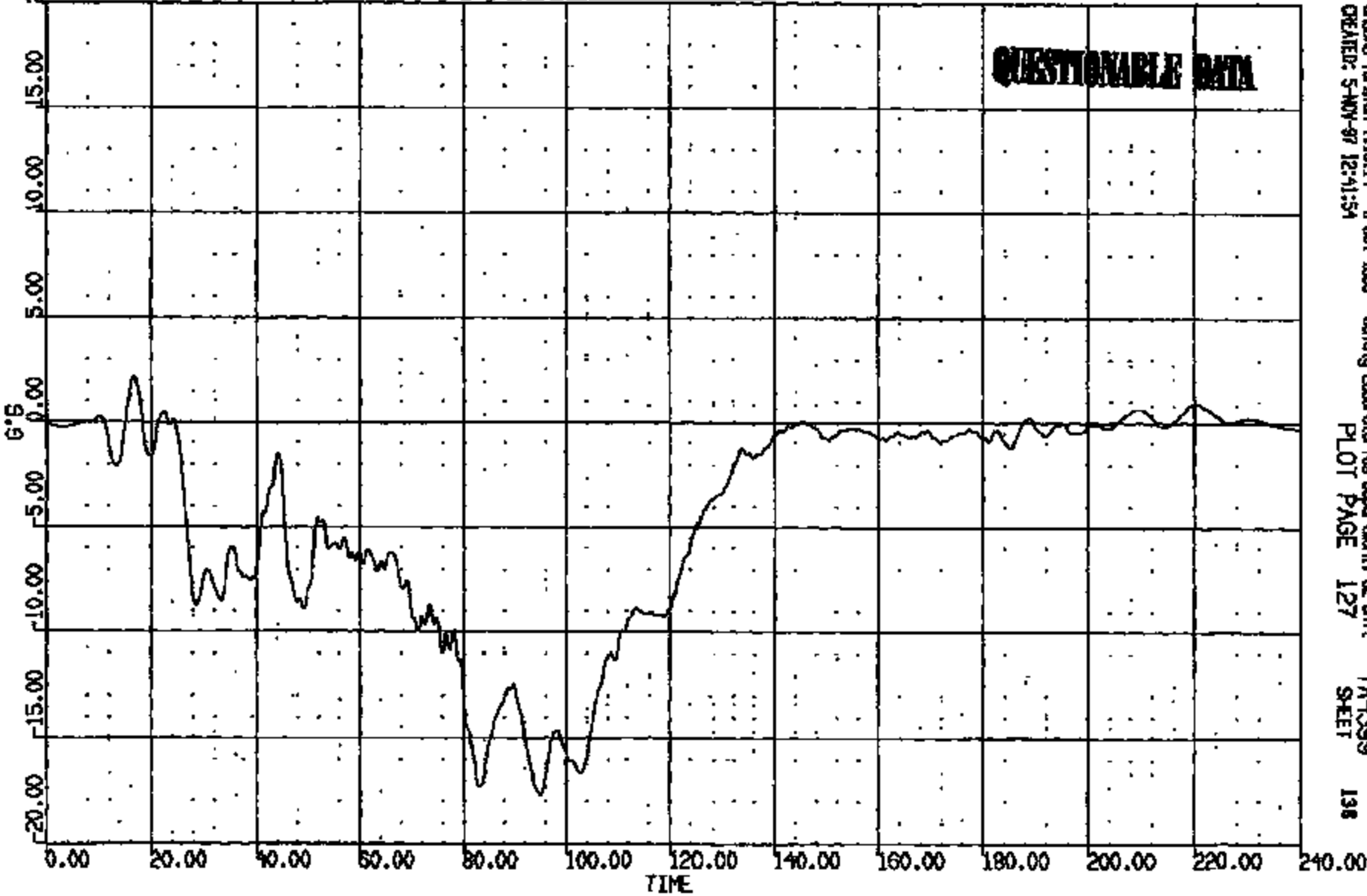
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CR R: 10806 TO: TA4599 DATE: 970821 09:31:21  
199X DN-101 199X DN-101

TIME-ZERO CORRECTED  
IN ACCORDANCE WITH ST-25  
REFERENCE 7

(84) CR108068 R/ROCKER @ B-PILLAR LONG 60C  
MAX = 2.139 at 16.72 MS MIN = -17.71 at 91.96 MS **AXIS 1**

**QUESTIONABLE DATA**



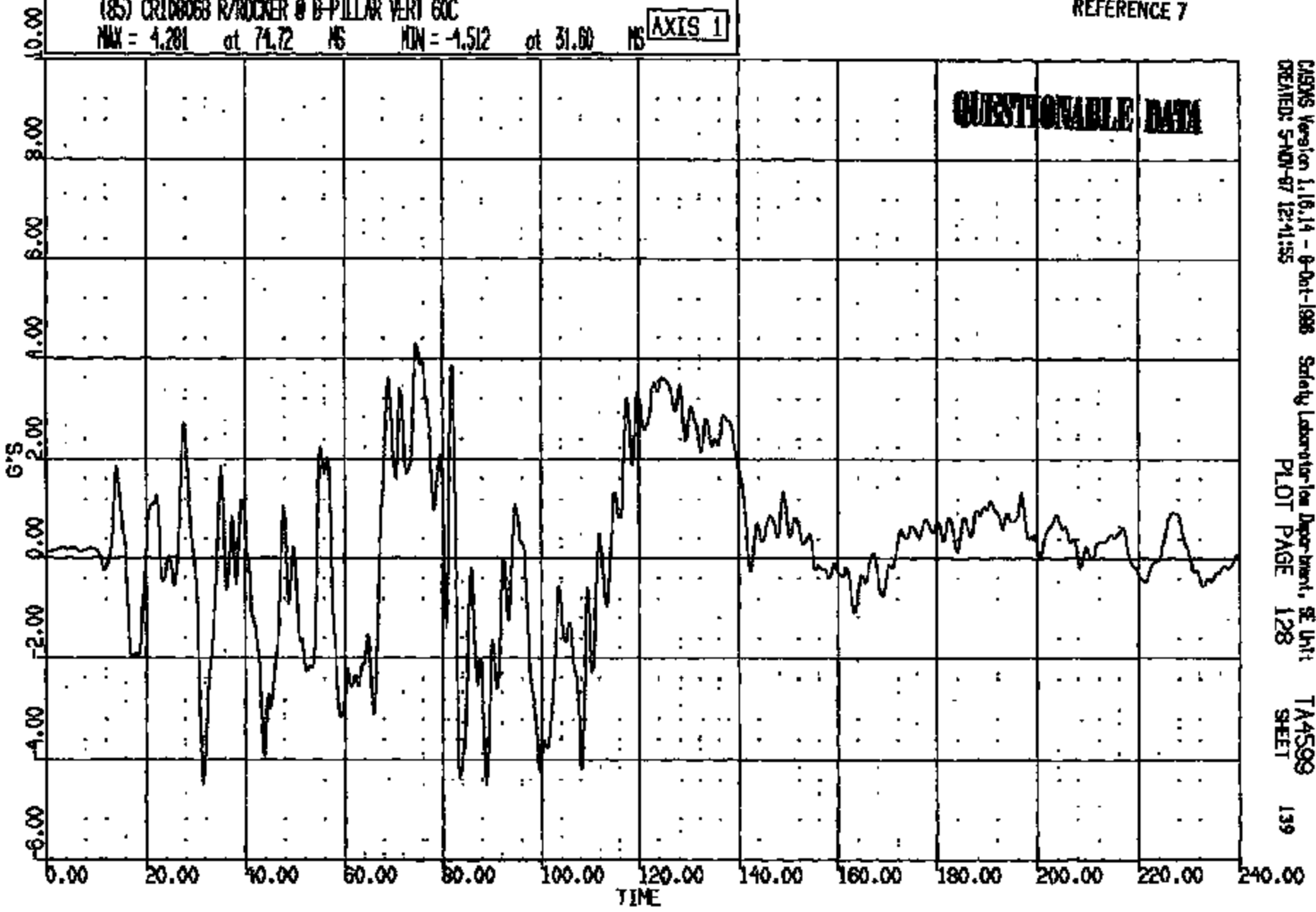
CADDS Version 1.16.14 - 8-Oct-1998 Safety Laboratories Department, SE Unit  
CREATED: 5-NOV-97 12:41:54 PLOT PAGE 127 SHEET 138

CRTS 0010806

CR R: 10808 TO: TA4599 DATE: 070821 09:51:21  
199X DN-101 199X DN-101

TIME-ZERO CORRECTED  
IN ACCORDANCE WITH ST-25  
REFERENCE 7

(85) CR10068 R/ROCKER @ B-PILLAR VERT 60C  
MAX = 4.281 at 74.72 MS MIN = -4.512 at 31.00 MS **AXIS 1**



CRS08 Version 1.10.14 - 8-Oct-1988 Safety Laboratory Department, SE Unit TA4599  
CREATED: 5-NOV-87 12:41:55 PLOT PAGE 128 SHEET 139

CRTS 0010806

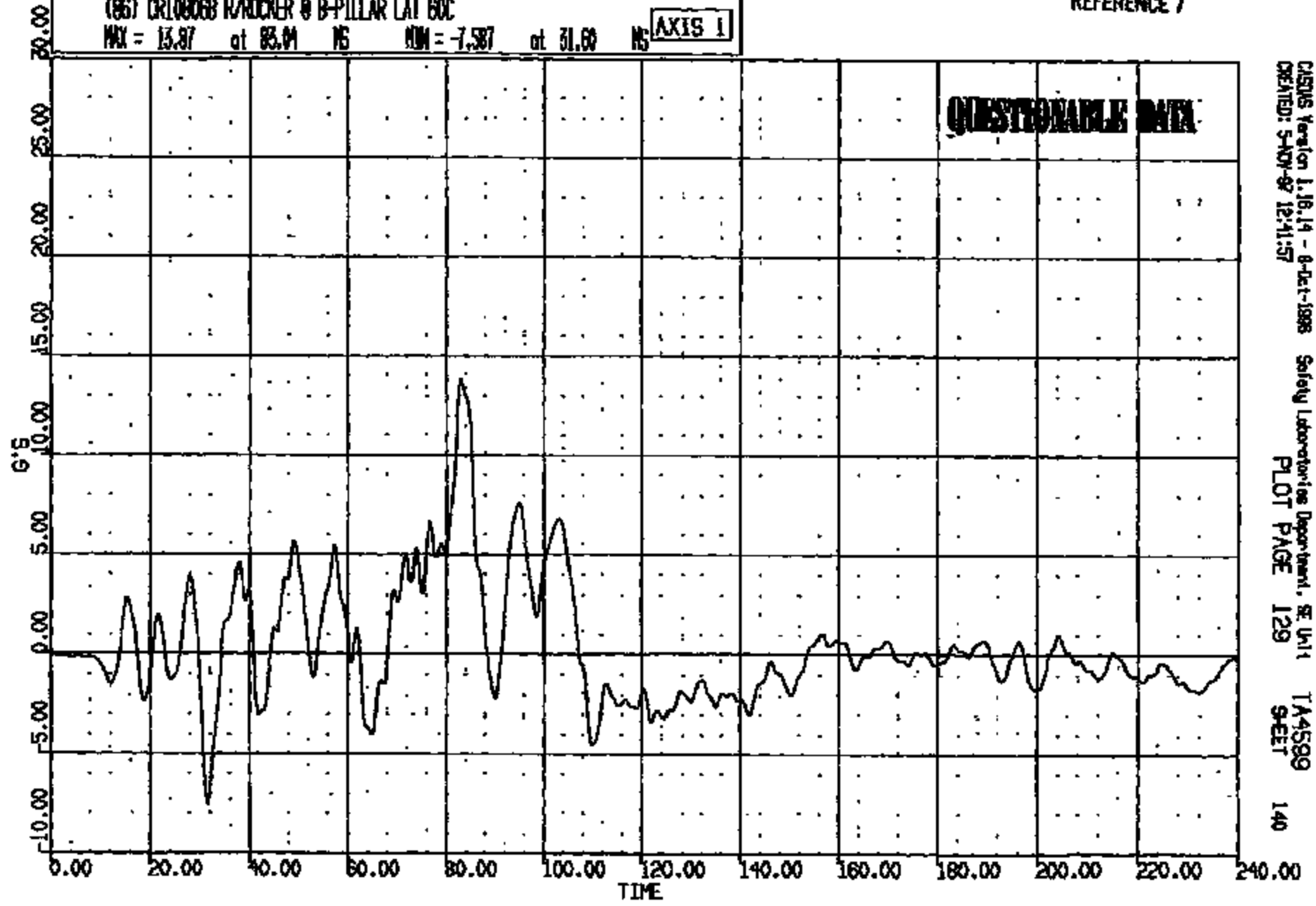
CR R: 10808 TO: TA4599 DATE: 970821 09:31:21  
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TIME-ZERO CORRECTED  
IN ACCORDANCE WITH ST-25  
REFERENCE 7

(86) CR108088 R/ROCKER @ B-PILLAR LAT 60C  
MAX = 13.97 at 83.04 NS MIN = -7.587 at 31.60 NS

AXIS 1

QUESTIONABLE DATA



CISIS Version 1.16.14 - 8-Oct-1998 Safety Laboratories Department, SE Unit 1  
CREATED: 5-AUG-97 12:41:57 PLOT PAGE 129 SHEET 140

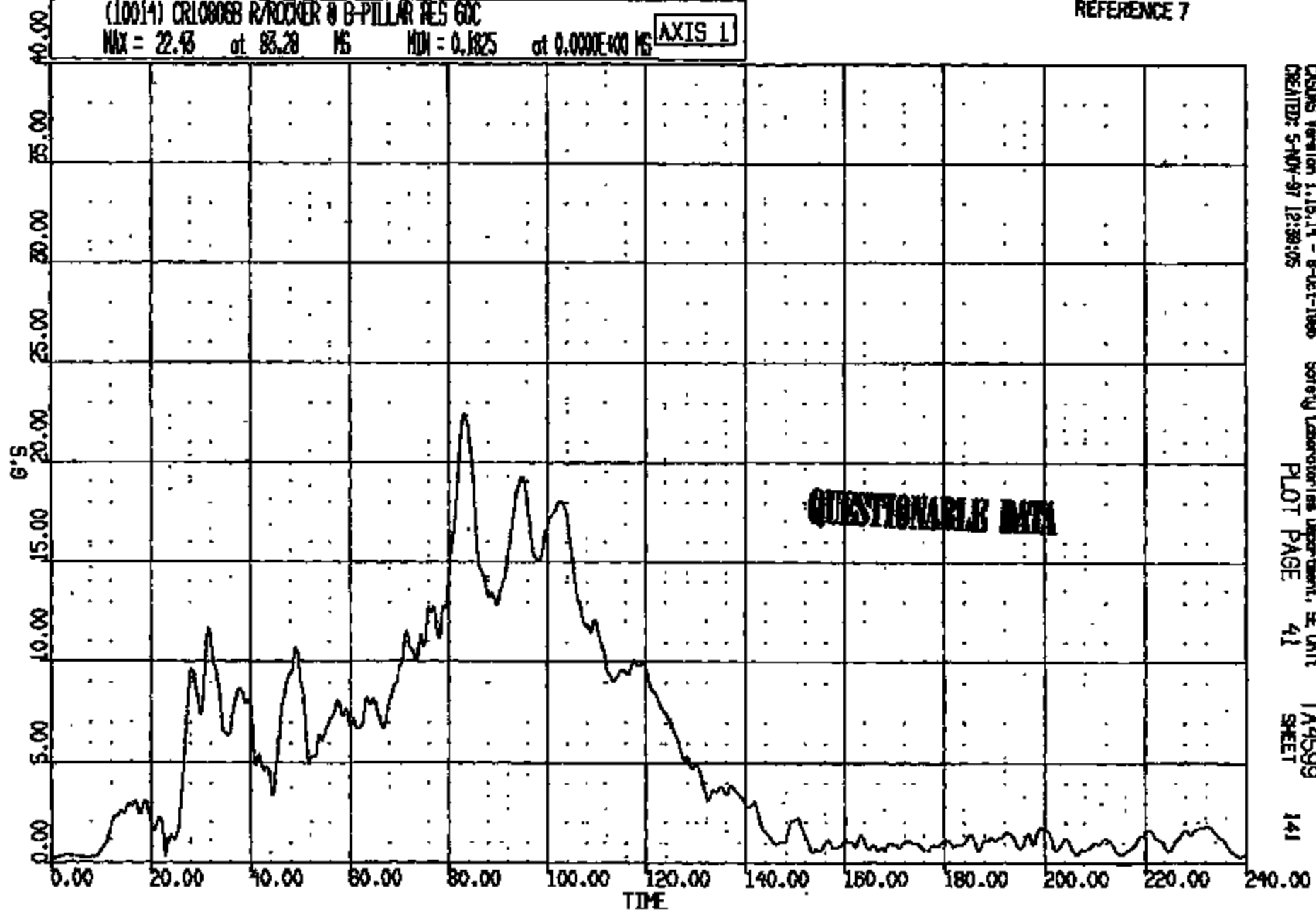
CRTS 0010806



CR R: 10806 TO: TA4599 DATE: 970821 08:31:21  
199X DN-101 199X DN-101

TIME-ZERO CORRECTED  
IN ACCORDANCE WITH ST-25  
REFERENCE 7

(10014) CR108068 R/ROCKER @ B-PILLAR RES 60C  
MAX = 22.43 at 83.28 MS MIN = 0.1825 at 0.000E+00 MS **AXIS 1**



CADDS Version 1.15.14 - 8-Oct-1998 Safety Laboratories Department, E Unit TA4599  
CREATED: 5-NOV-97 12:39:05 PLOT PAGE 41 SHEET 141

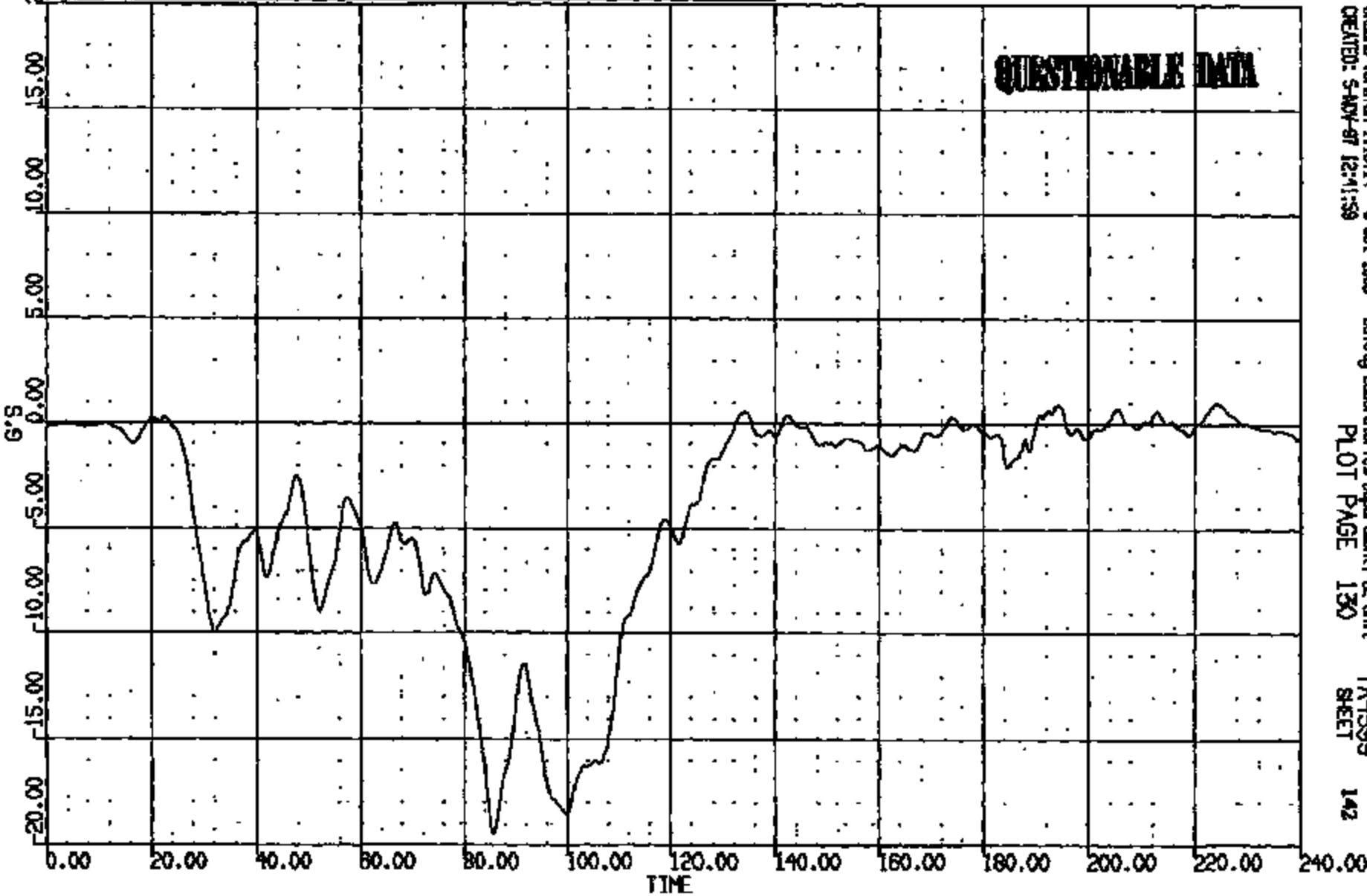
CRTS 0010806

CR R: 10806 TO: TA4599 DATE: 970821 09:51:21  
199X DN-101 199X DN-101

TIME-ZERO CORRECTED  
IN ACCORDANCE WITH ST-25  
REFERENCE 7

(87) CR108068 FUEL SHUT OFF (INERTIA) LONG 60C  
MAX = 0.9728 at 23.9 MS MIN = -19.51 at 85.68 MS **AXIS 1**

**QUESTIONABLE DATA**



CRS05 Version 1.16.14 - 8-Oct-1986 Safety Laboratories Department, BE Unit  
CREATED: 5-NOV-97 12:41:59  
PLOT PAGE 130  
TA4599  
SHEET 142

CRTS 0010806

CR R: 10806 TO: TA4599 DATE: 970821 09:31:21  
199X DN-101 199X DN-101

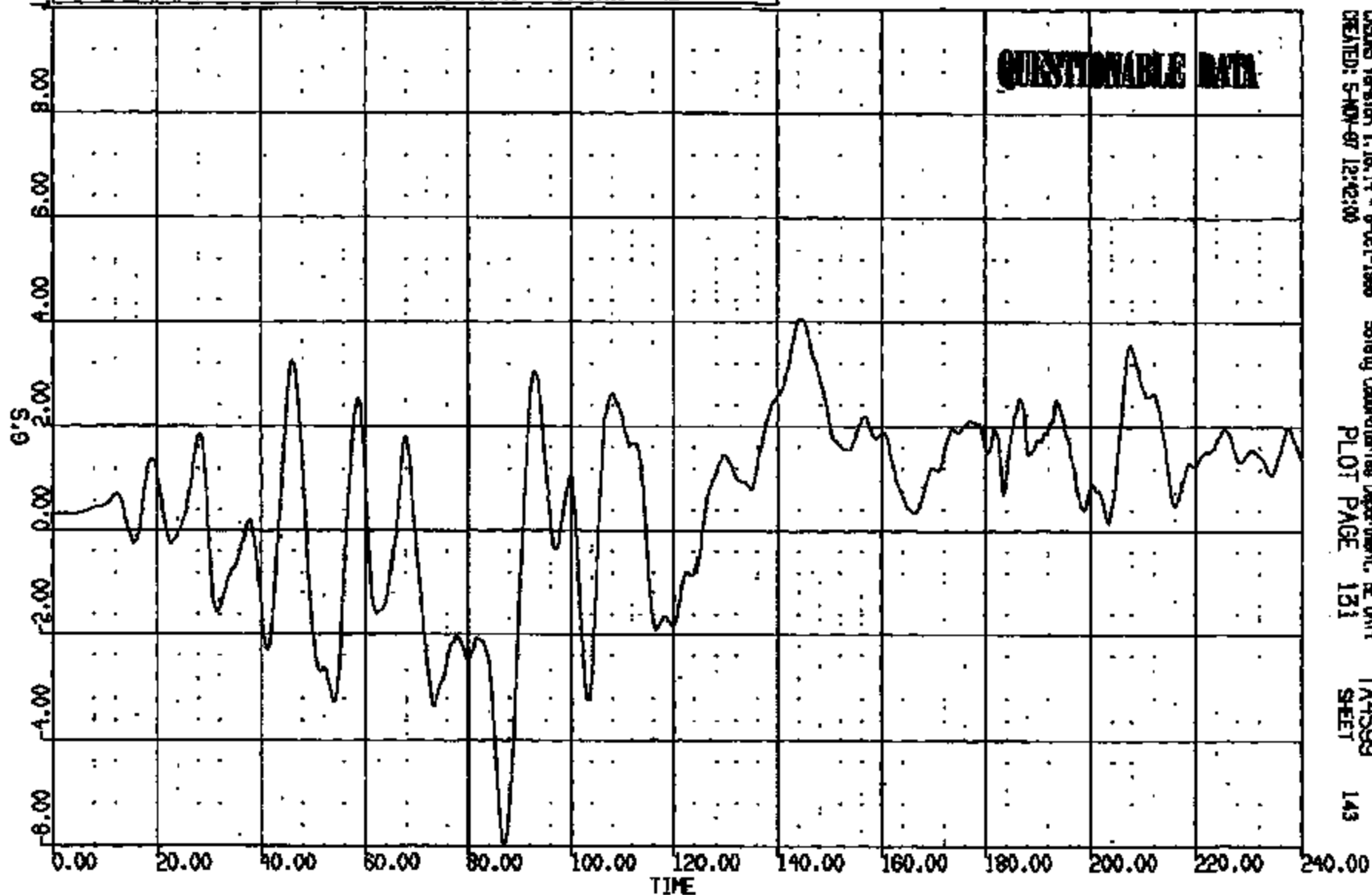
TIME-ZERO CORRECTED  
IN ACCORDANCE WITH ST-25  
REFERENCE 7

(88) CR1000GB FUEL SHUT OFF (INERTIA) VERT 60C

MAX = 4.008 at 145.4 MS MIN = -5.995 at 86.95 MS

AXIS 1

QUESTIONABLE DATA



CRS08 Version 1.16.14 - 8-Oct-1998  
CREATED: 5-NOV-97 12:42:00

Safety Laboratories Department, EE Unit  
PLOT PAGE 131

TA4599  
SHEET

143

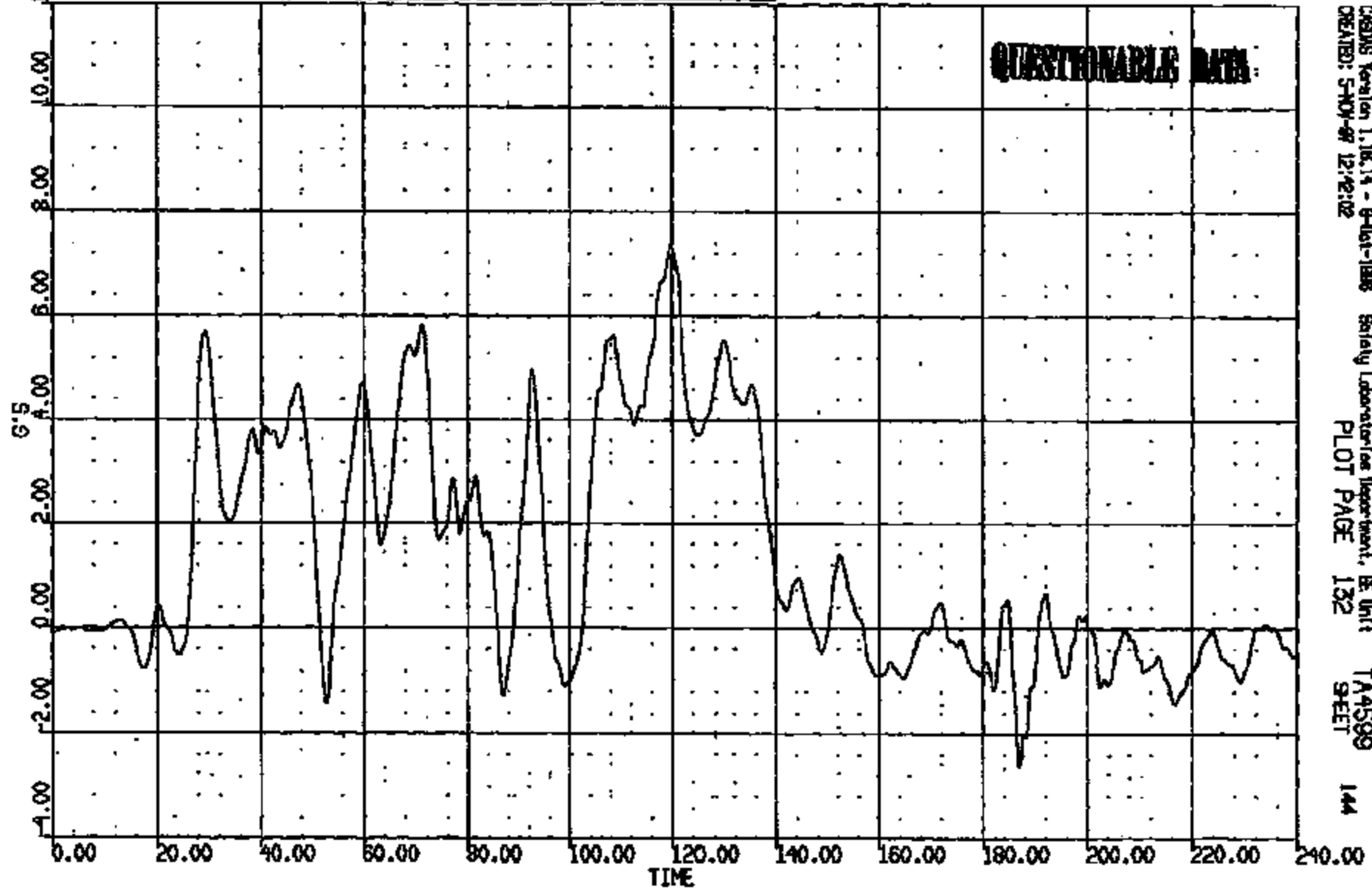
CRIS 0010806

CR 7: 10806 TO: TA4599 DATE: 970821 09:51:21  
188X DN-101 188X DN-101

TIME-ZERO CORRECTED  
IN ACCORDANCE WITH ST-25  
REFERENCE 7

(89) CR108068 FUEL SHUT OFF (INERTIA) LAT 60C  
MAX = 7.343 at 119.8 16 MIN = -2.633 at 187.0 16 **AXIS 1**

**QUESTIONABLE DATA:**

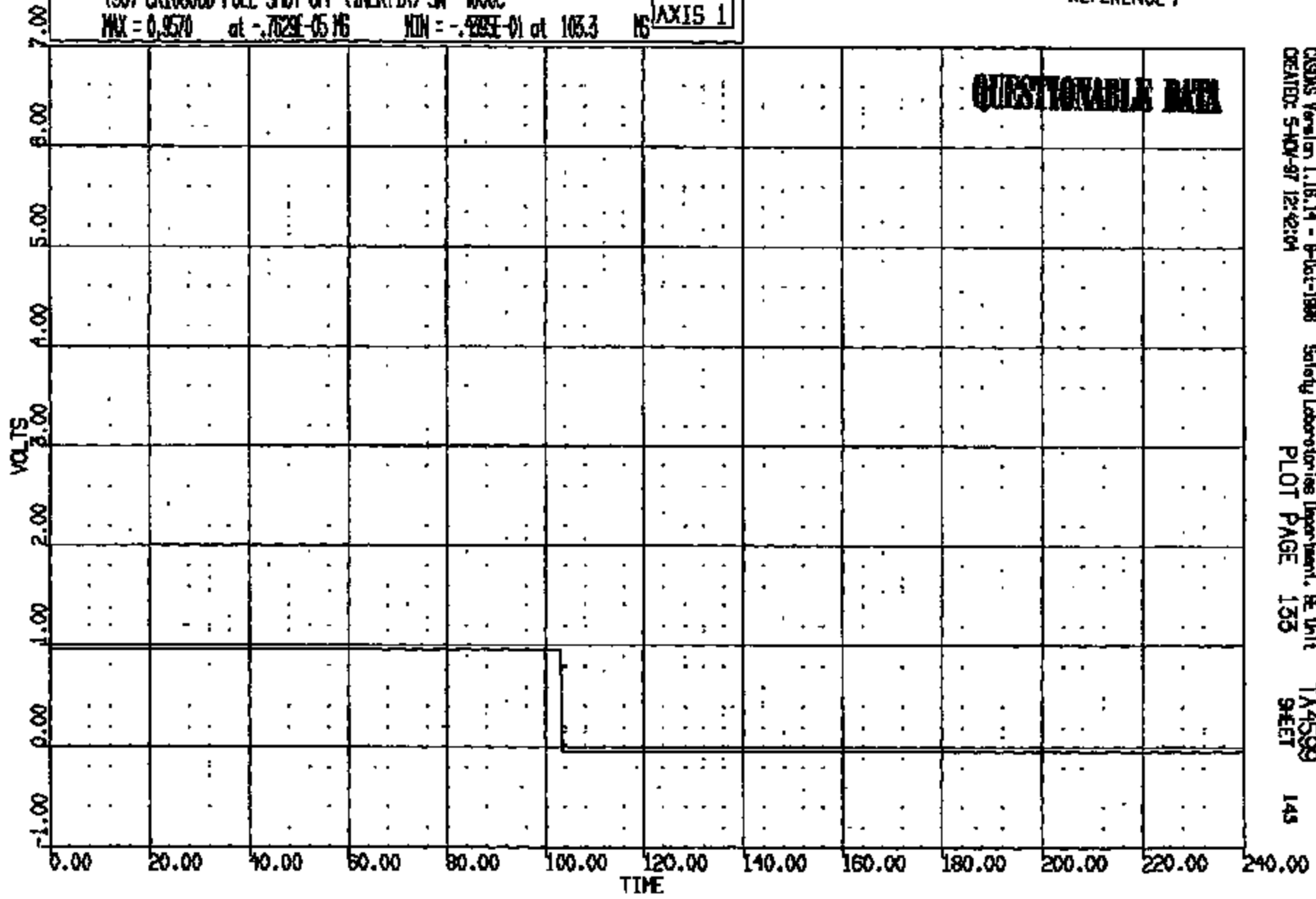


CRSIS Version 1.16.14 - 9-01-1998 Safety Laboratory Department, E Unit  
CREATED: 5/04/97 12:42:02 PLOT PAGE 132 SHEET 144

CR R: 10806 TO: TA4599 DATE: 870821 09:31:21  
189X DN-101 189X DN-101

TIME-ZERO CORRECTED  
IN ACCORDANCE WITH ST-25  
REFERENCE 7

(90) CR108068 FUEL SHUT OFF (INERTIA) SW 400C  
MAX = 0.9570 at -.7629E-05 MS MIN = -.4893E-01 at 103.3 MS **AXIS 1**



CSDS Version 1.18.14 - 8-Oct-1988 Safety Laboratories Department, BE Unit TA4599  
CREATED: 5-NOV-87 12:42:04 PLOT PAGE 135 SHEET 145

CRTS 0010806

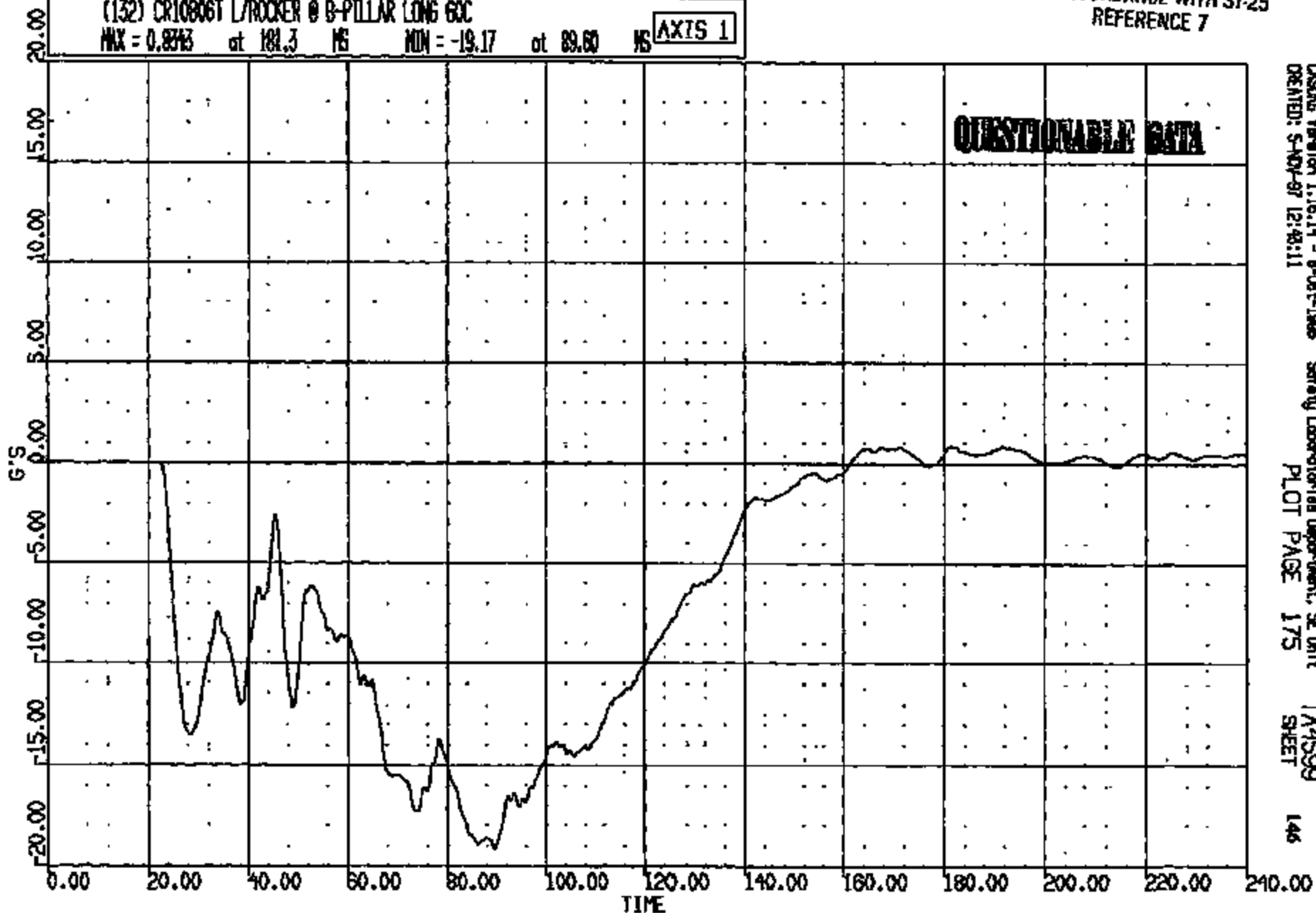
CR R: 10806 TO: TA4598 DATE: 870821 09:51:21  
199X DN-101 199X DN-101

TIME-ZERO CORRECTED  
IN ACCORDANCE WITH ST-25  
REFERENCE 7

(132) CR10806T L/ROCKER @ B-PILLAR LONG 60C

MAX = 0.8363 at 181.3 MS MIN = -19.17 at 89.60 MS

AXIS 1



CRSASG Version 1.16.14 - 8-Oct-1988  
CREATED: 5-NOV-87 12:48:11

Safety Laboratories Department, SE Unit  
PLOT PAGE 175

TA4599  
SHEET

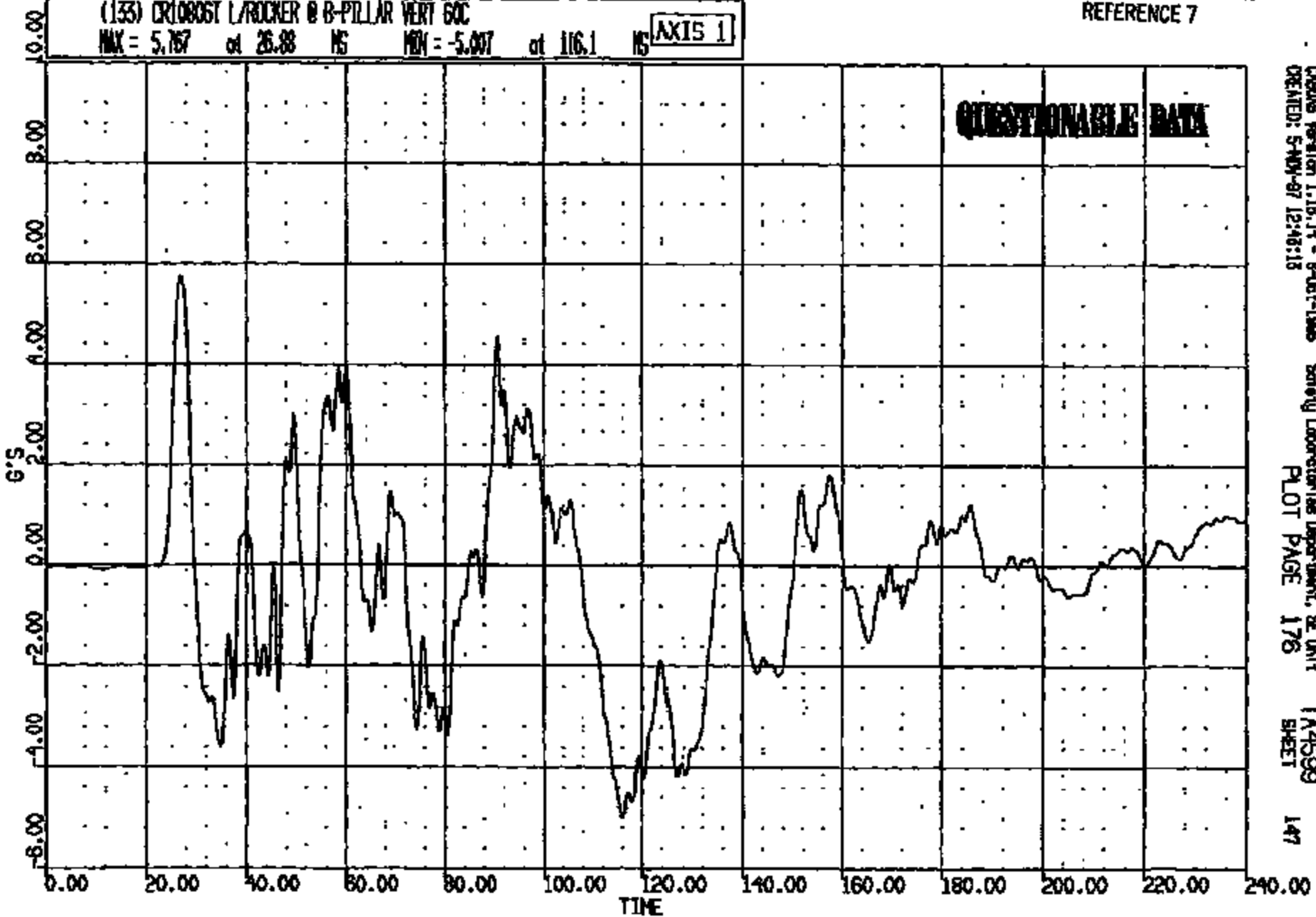
146

CR #: 10808 TO: TA4599 DATE: 970821 08:51:21  
100X DN-101 100X DN-101

TIME-ZERO CORRECTED  
IN ACCORDANCE WITH ST-25  
REFERENCE 7

(133) CRIBPOST L/ROCKER @ B-PILLAR VERT 60C  
MAX = 5.767 at 26.88 MS MIN = -5.007 at 116.1 MS **AXIS 1**

**QUESTIONABLE DATA**



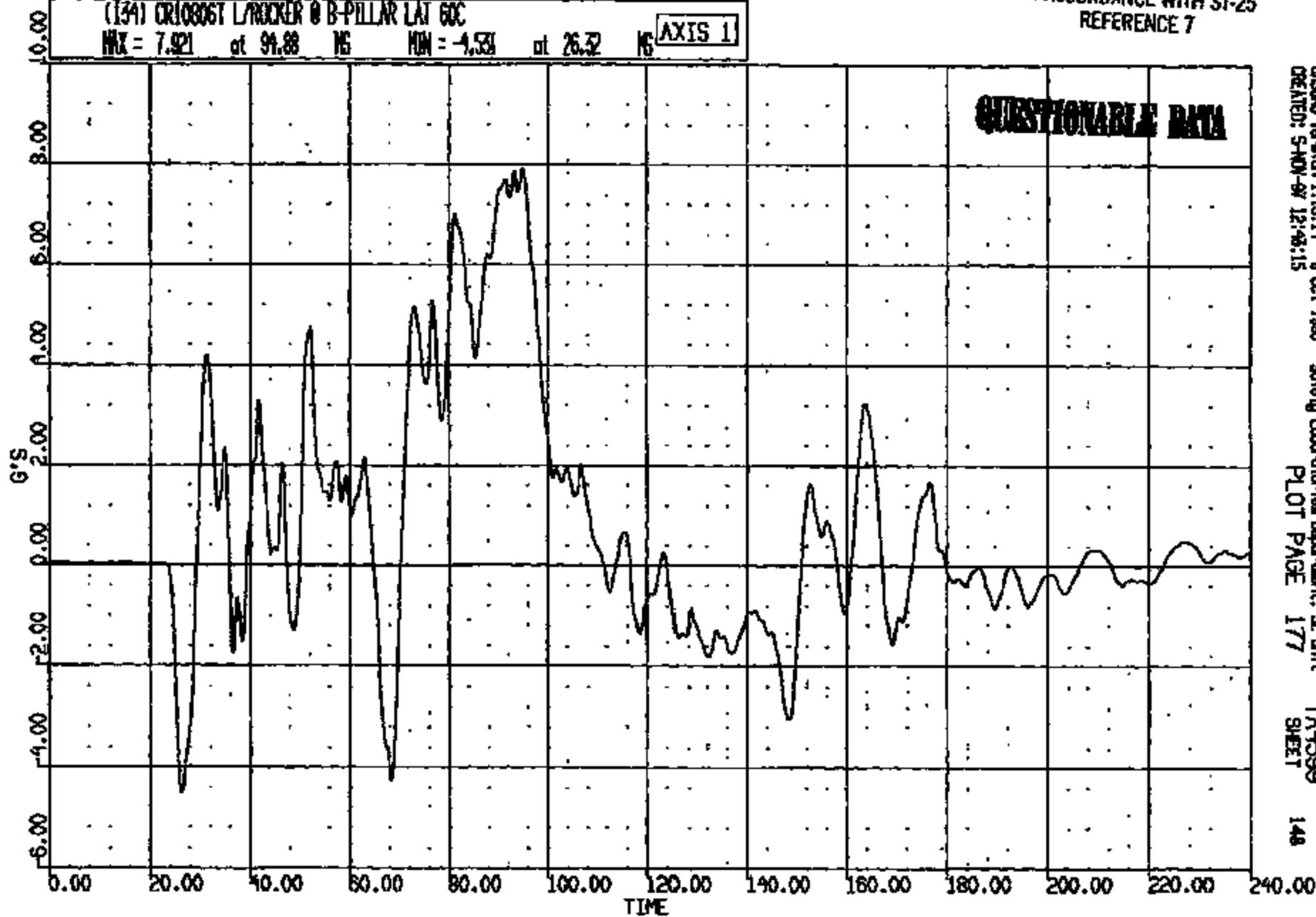
CASUS Version 1.18.14 - 8-Oct-1998 Safety Laboratories Department, SE Unit  
CREATED: 5-NV-97 12:48:15  
PLOT PAGE 176 SHEET 147

CRTS 0010806

CR R: 10806 TO: TA4599 DATE: 970821 09:31:21  
199X DN-101 199X DN-101

TIME-ZERO CORRECTED  
IN ACCORDANCE WITH ST-25  
REFERENCE 7

(134) CR10067 L/ROCKER @ B-PILLAR LAT 60C  
MAX = 7.921 at 94.88 MS MIN = -4.531 at 26.32 MS **AXIS 1**



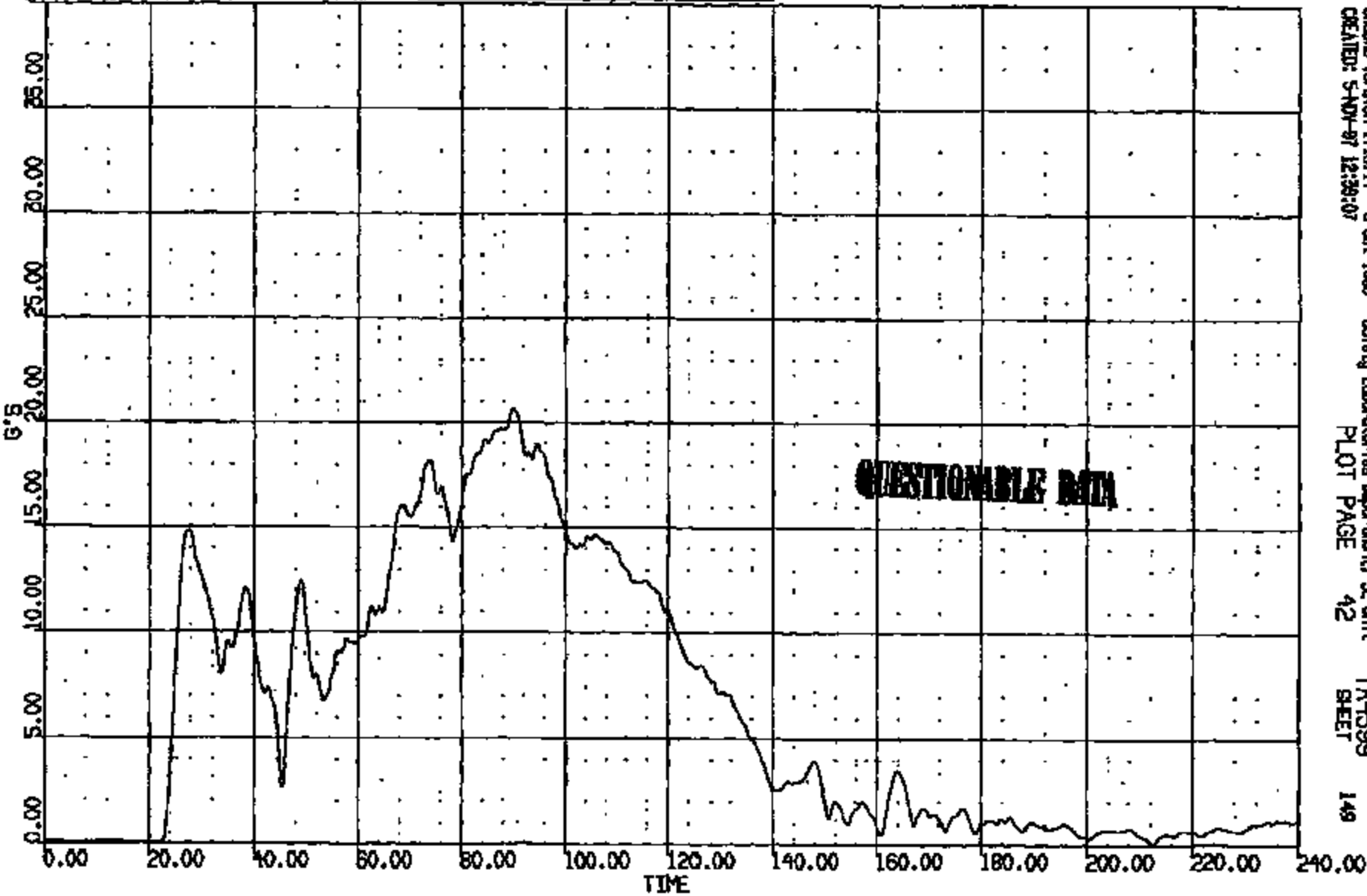
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CREATED: 5-NOV-97 12:48:15 PLOT PAGE 177 TA4599 SHEET 148



CR R: 10806 TO: TA4599 DATE: 870821 09:51:21  
199X DN-101 199X DN-101

TIME-ZERO CORRECTED  
IN ACCORDANCE WITH ST-25  
REFERENCE 7

(100)5 CR10806T L/ROCKER @ 8-PILLAR RES 60C  
MAX = 20.08 at 89.76 MS MIN = 0.174E-01 at 212.5 MS **AXIS 1**



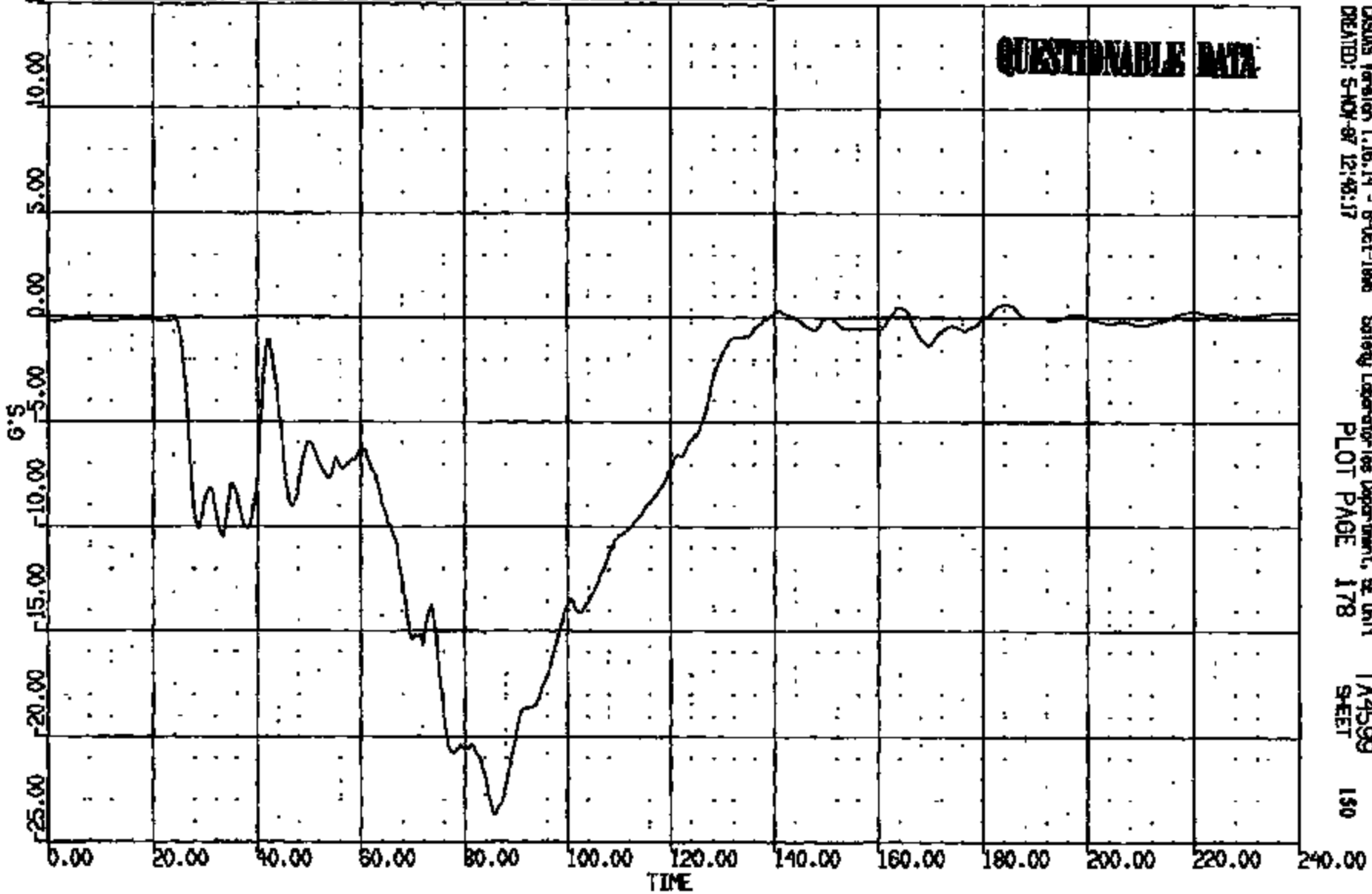
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CRTS 0010806

CR#: 10806 TO: TA4599 DATE: 970821 09:31:21  
100X DN-101 100X DN-101

TIME-ZERO CORRECTED  
IN ACCORDANCE WITH ST-25  
REFERENCE 7

(135) CR10806T R/ROCKER @ B-PILLAR LONG GOC  
MAX = 0.6298 at 185.8 MS MIN = -23.70 at 85.92 MS **AXIS 1**



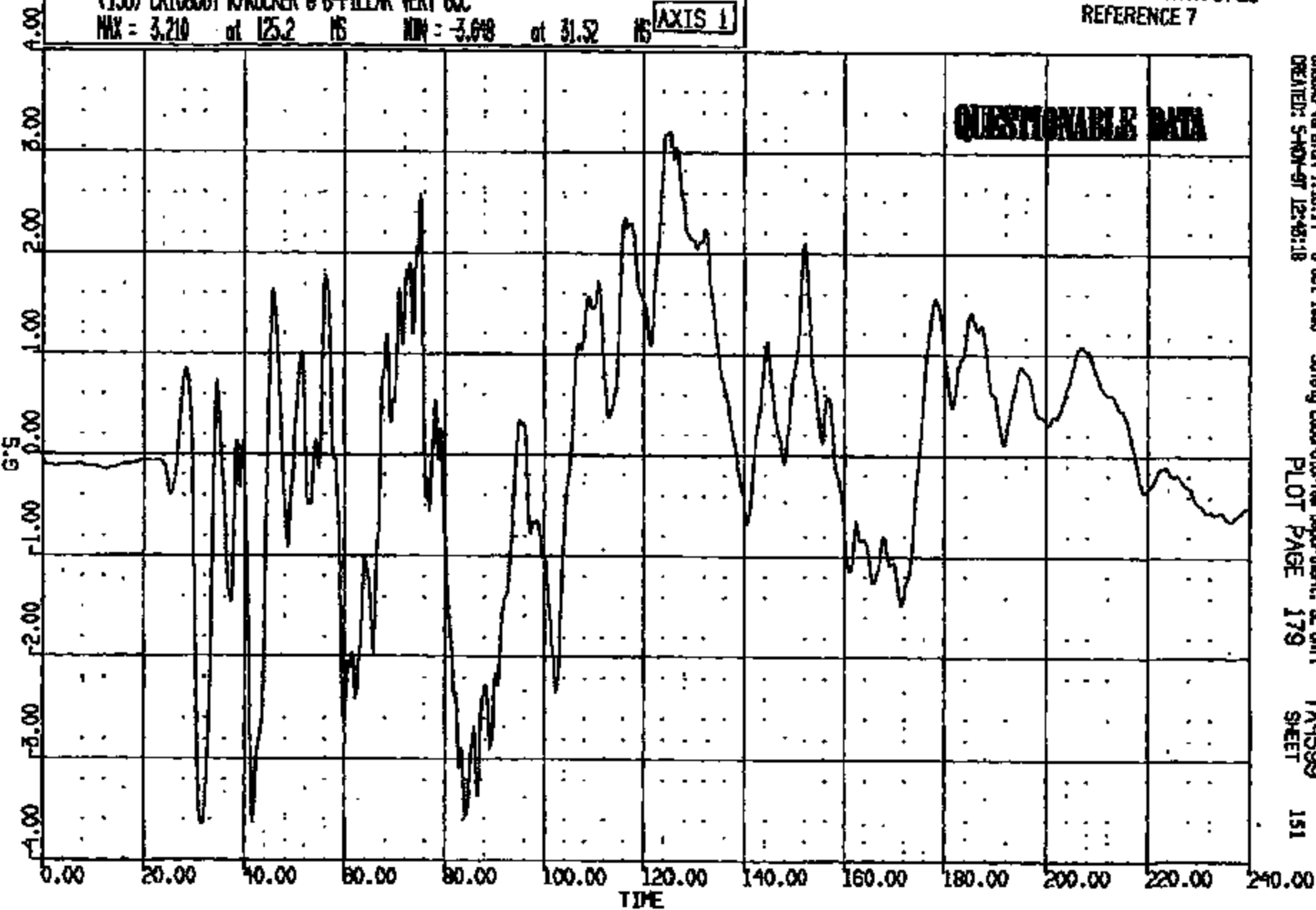
DISK Version 1.16.14 - 8-Oct-1996 Safety Laboratories Department, SE Unit TA4599  
CREATED: SMOY-87 12:43:17 PLOT PAGE 178 SHEET 150

CRTS 0010806

CR R: 10806 TO: TA4599 DATE: 970821 09:31:21  
199X DN-101 199X DN-101

TIME-ZERO CORRECTED  
IN ACCORDANCE WITH ST-25  
REFERENCE 7

(136) CR10806T R/ROCKER @ B-PILLAR VERT 60C  
MAX = 3.210 at 125.2 MS MIN = -3.698 at 31.52 MS **AXIS 1**



CASUS Version 1.18.14 - 8-Dec-1999  
CREATED: 5-10-97 12:45:18

Safety Laboratories Department, SE Unit 1  
PLOT PAGE 179

TA4599  
SHEET

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CRTS 0010806

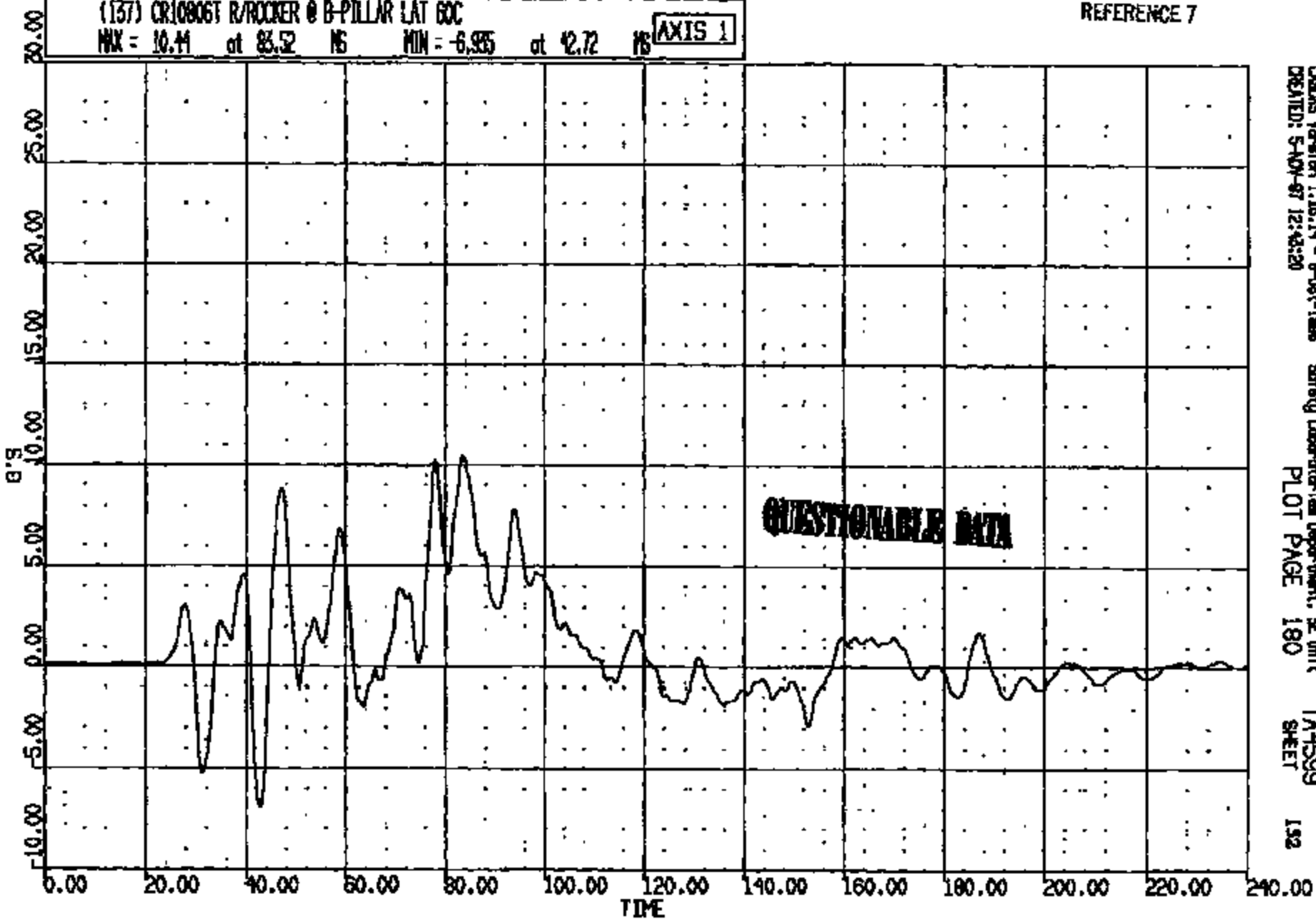
CR R: 10806 TO: TA4599 DATE: 970921 09:31:21  
199X DN-101 199X DN-101

TIME-ZERO CORRECTED  
IN ACCORDANCE WITH ST-25  
REFERENCE 7

(137) CR10806T R/ROCKER @ B-PILLAR LAT 60C

MAX = 10.44 at 83.52 NS MIN = -6.935 at 42.72 NS

AXIS 1



CRSIS Version 1.18.14 - 8-06-1995  
CREATED: 5-MAY-97 12:45:20

Safety Laboratories Department, SE Unit  
PLOT PAGE 180

TA4599  
SHEET

192

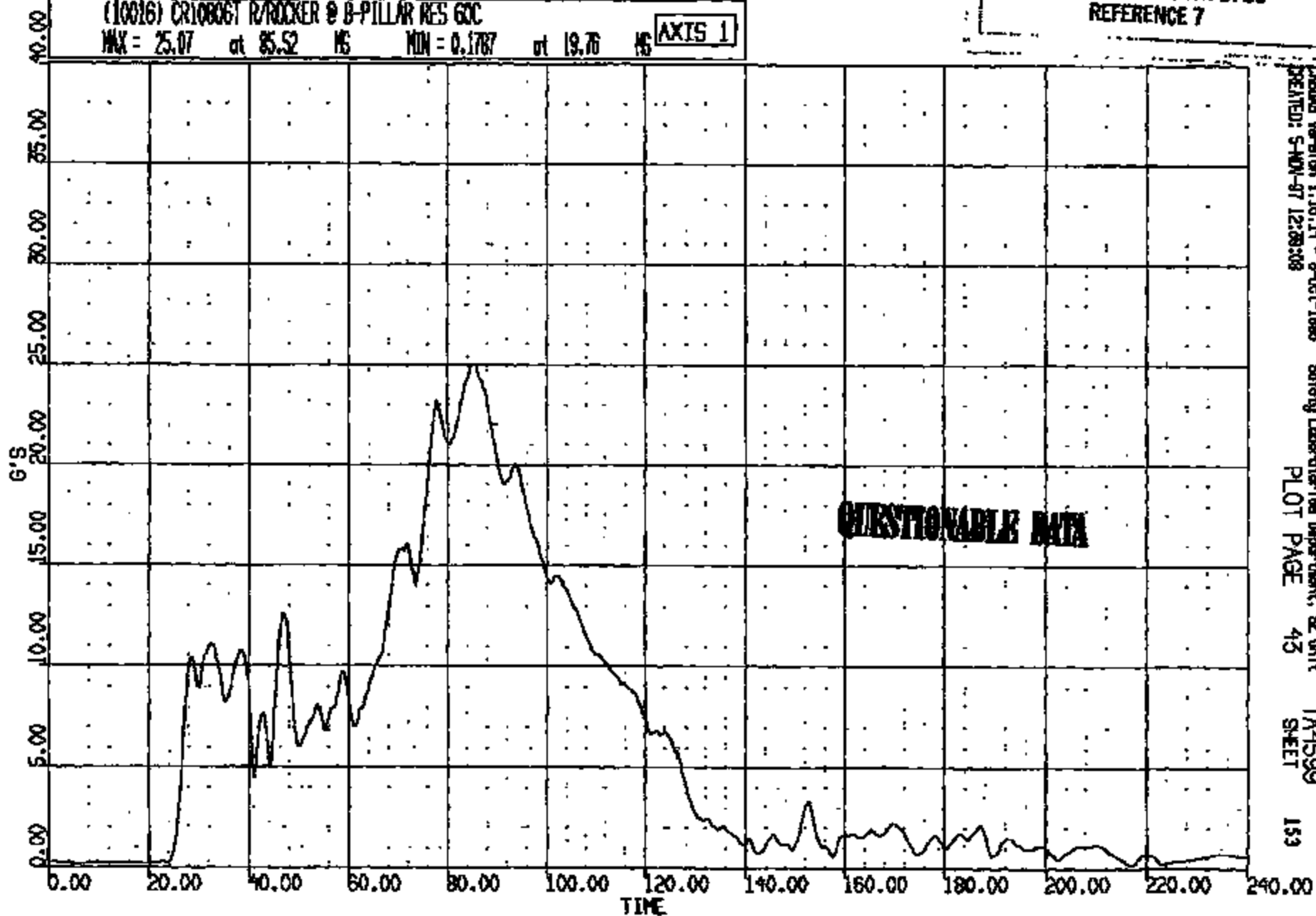
CR R: 10806 TO: TA4599 DATE: 970821 09:51:21  
199X DN-101 199X DN-101

TIME-ZERO CORRECTED  
IN ACCORDANCE WITH ST-25  
REFERENCE 7

(10016) CR108067 R/ROCKER @ B-PILLAR RES 60C

MAX = 25.07 at 85.52 MS MIN = 0.1787 at 19.76 MS

AXIS 1



CASMS Version 1.16.14 - 9-Oct-1998  
CREATED: 5-NOV-97 12:08:08

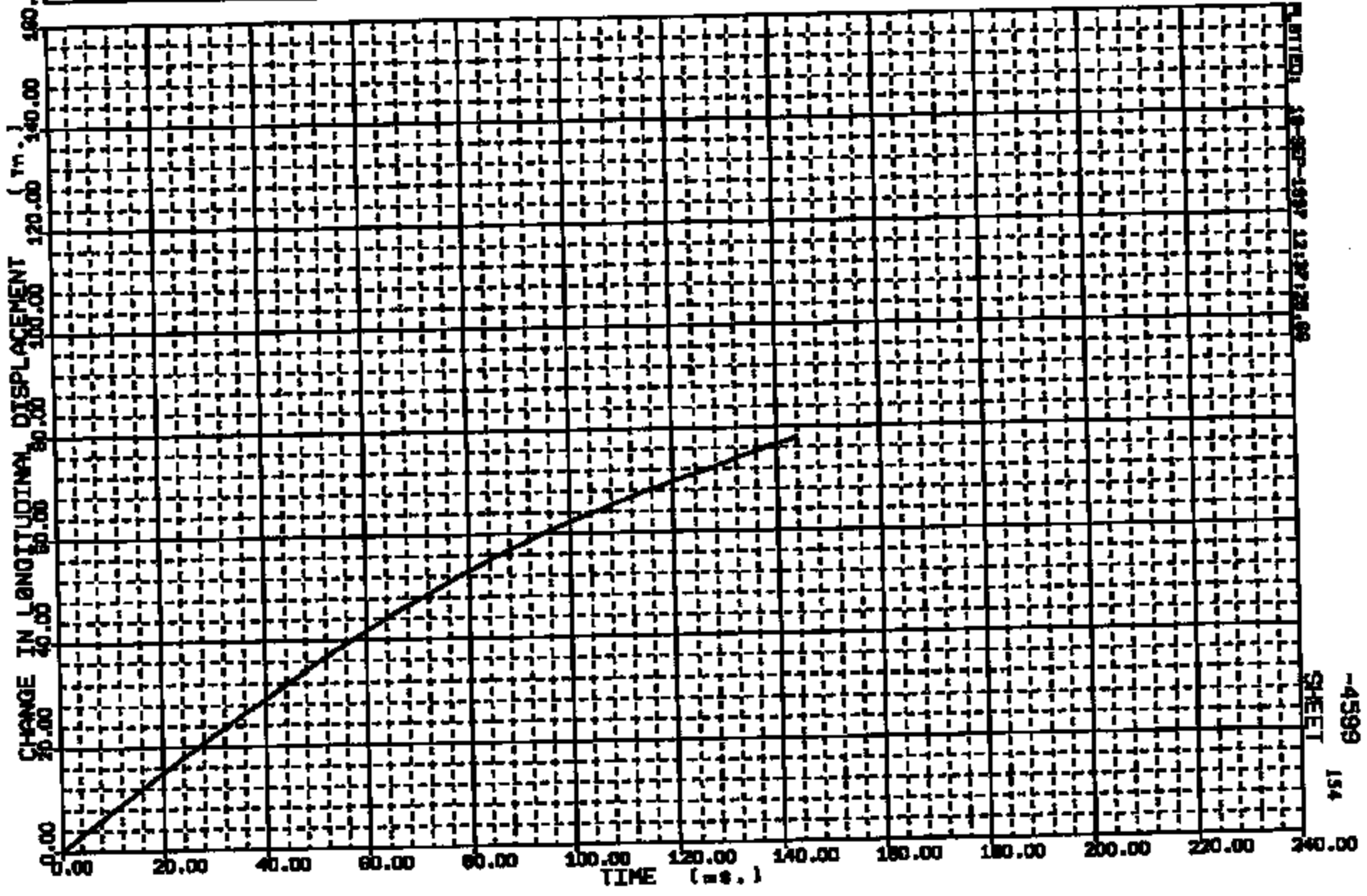
Safety Laboratories Department, SE Unit  
PLOT PAGE 43

TA4599  
SHEET 153

Y - AXIS: L/BECKER AT B-PILLAR WRT L/GROUND REFERENCE MAX = 77.97 at 144.00 MIN = 0.0000E+00 at 0.00

RUN NO.	FACILITY	TEST ORDER NO.	FILM ANALYSIS METHOD	PITCH CORRECTION
10806	BARRIER	-4599	SCALE	NOT APPLIED

199X DN-101 INTO 199X TAURUS



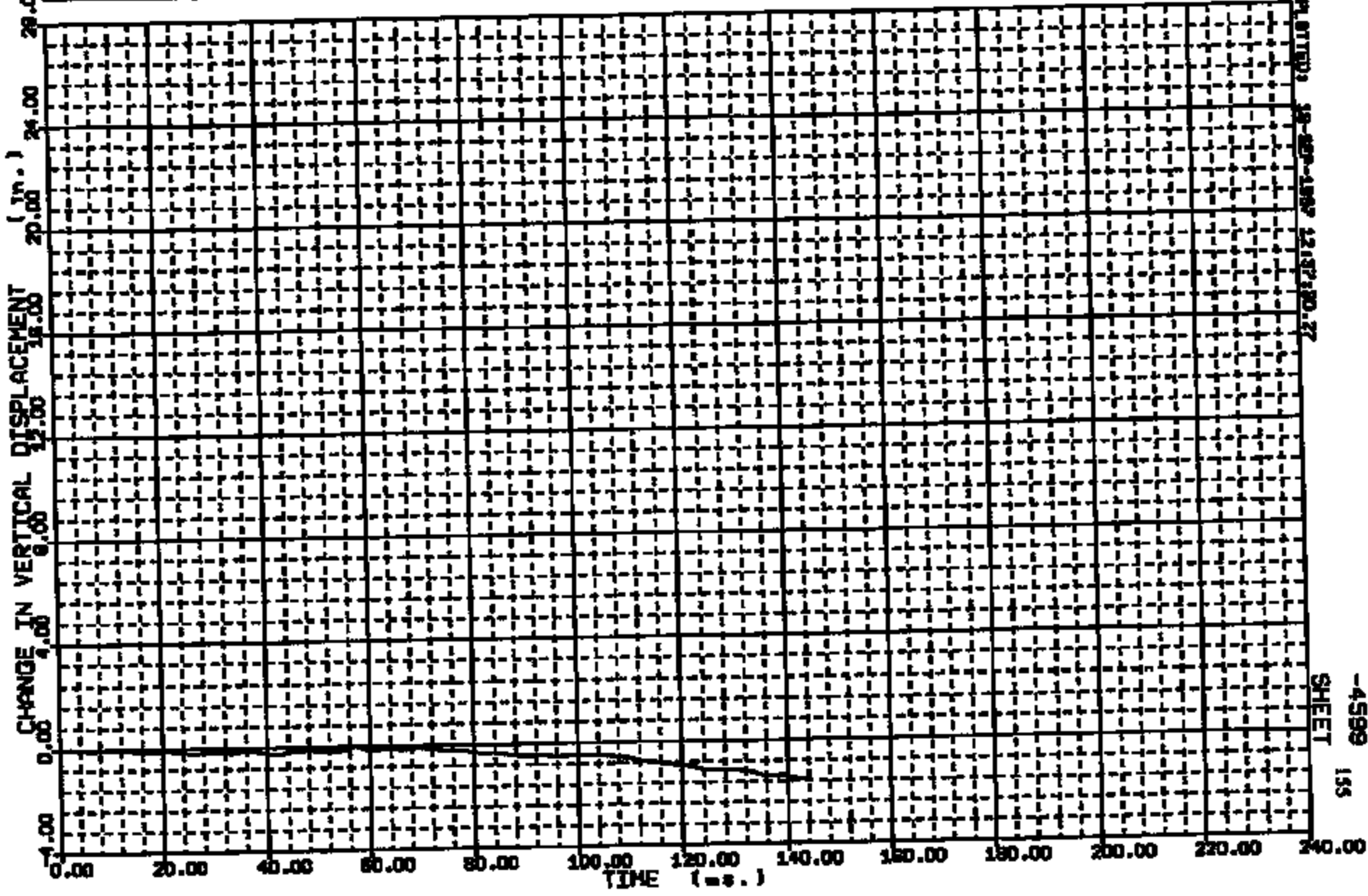
CRIS 0010806

PLATED 18 SEP 1997 12:27:28.00

SHEET -4599 154

Y - AXIS | L/BECKER AT 8-PILLAR NET L/GROUND REFERENCE | MAX = 0.2408E-01 at 37.00 MIN = -1.307 at 144.00

RUN NO.	FACILITY	TEST ORDER NO.	FILM ANALYSIS METHOD	PITCH CORRECTION
10806	BARRIER	-4599	SCALE	NOT APPLIED
199X DN-101 INTO 199X TAURUS				



CRTS 0010806

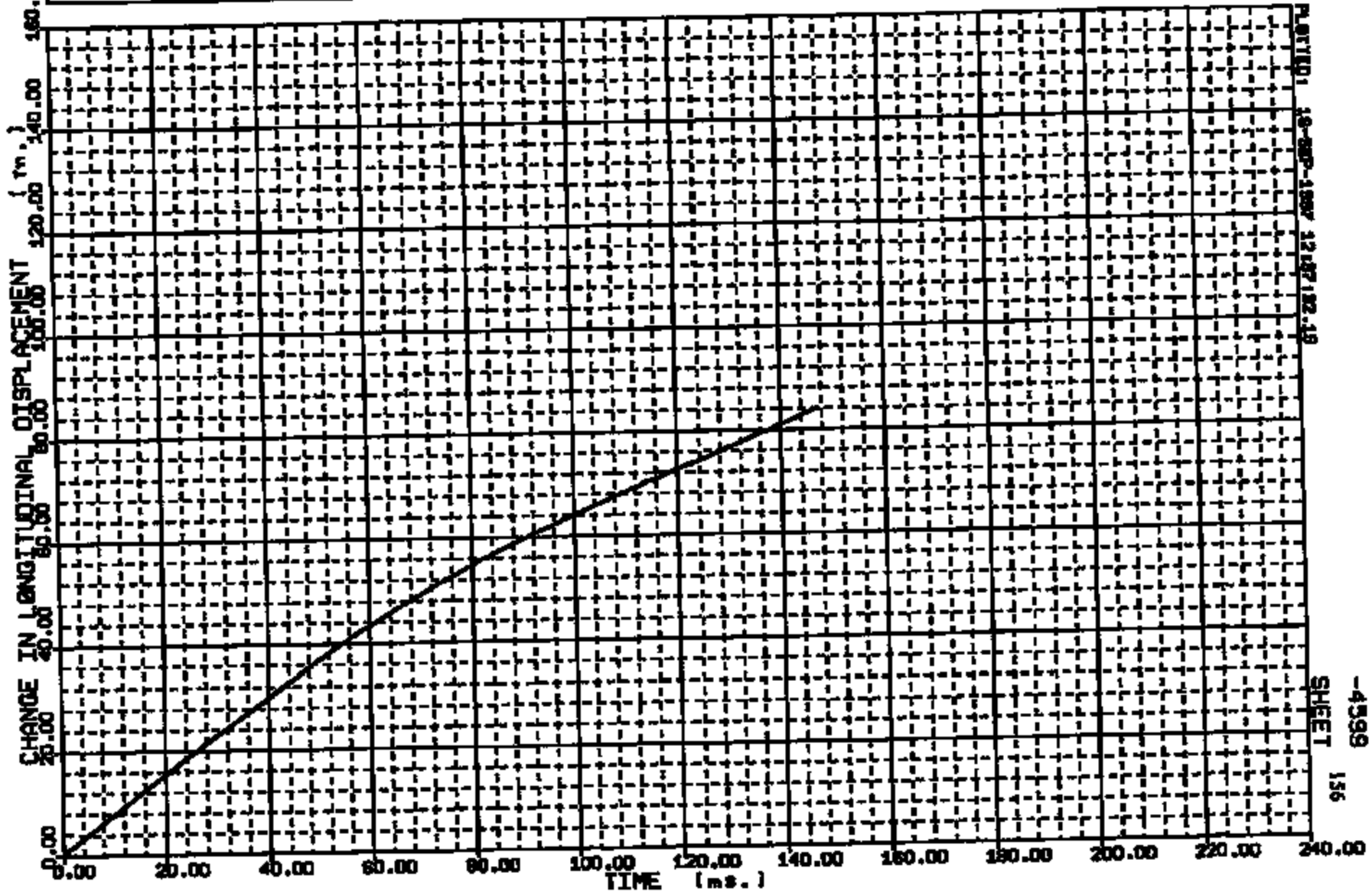
PLATED: 19-SEP-1987 12:57:20.27

SHEET  
-4599  
155

Y - AXIS: R/ROCKER AT B-PILLAR WRT G/GROUND REFERENCE MAX = 83.99 at 147.00 MIN = 0.0000E+00 at 0.00

RUN NO.	FACILITY	TEST ORDER NO.	FILM ANALYSIS METHOD	PITCH CORRECTION
10806	BARRIER	-4599	SCALE	NOT APPLIED

199X DN-101 INTO 199X TAURUS



PLATED: 19-SEP-1987 12:42:12.48

SHEET 156  
-4599

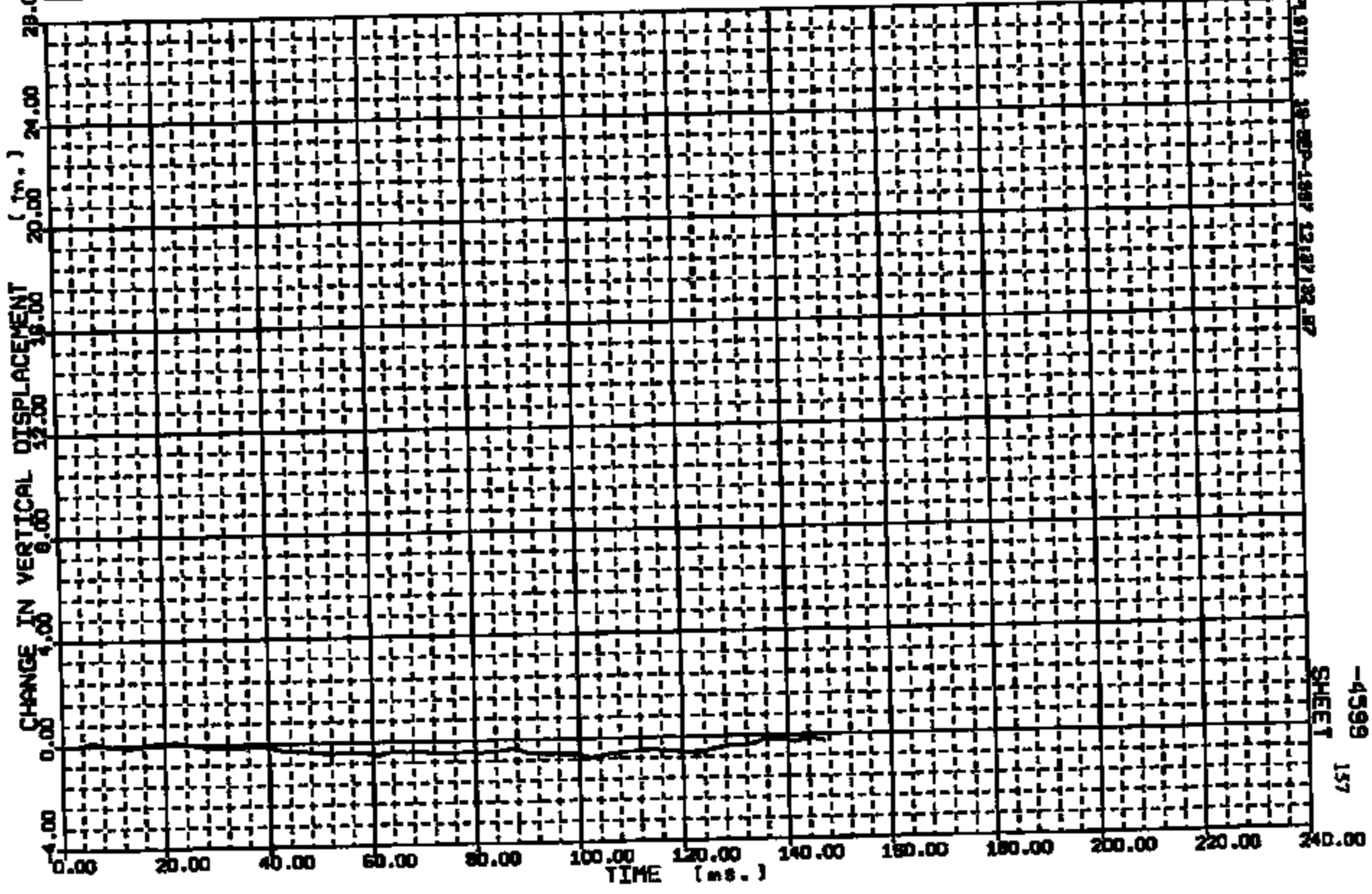
CRIS 0010806



Y - AXIS: R/ROCKER AT B-PILLAR HRT R/GROUND REFERENCE MAX = 0.1455 at 8.00 MIN = -.7500 at 102.00

RUN NO.	FACILITY	TEST ORDER NO.	FILM ANALYSIS METHOD	PITCH CORRECTION
10806	BARRIER	-4599	SCALE	NOT APPLIED

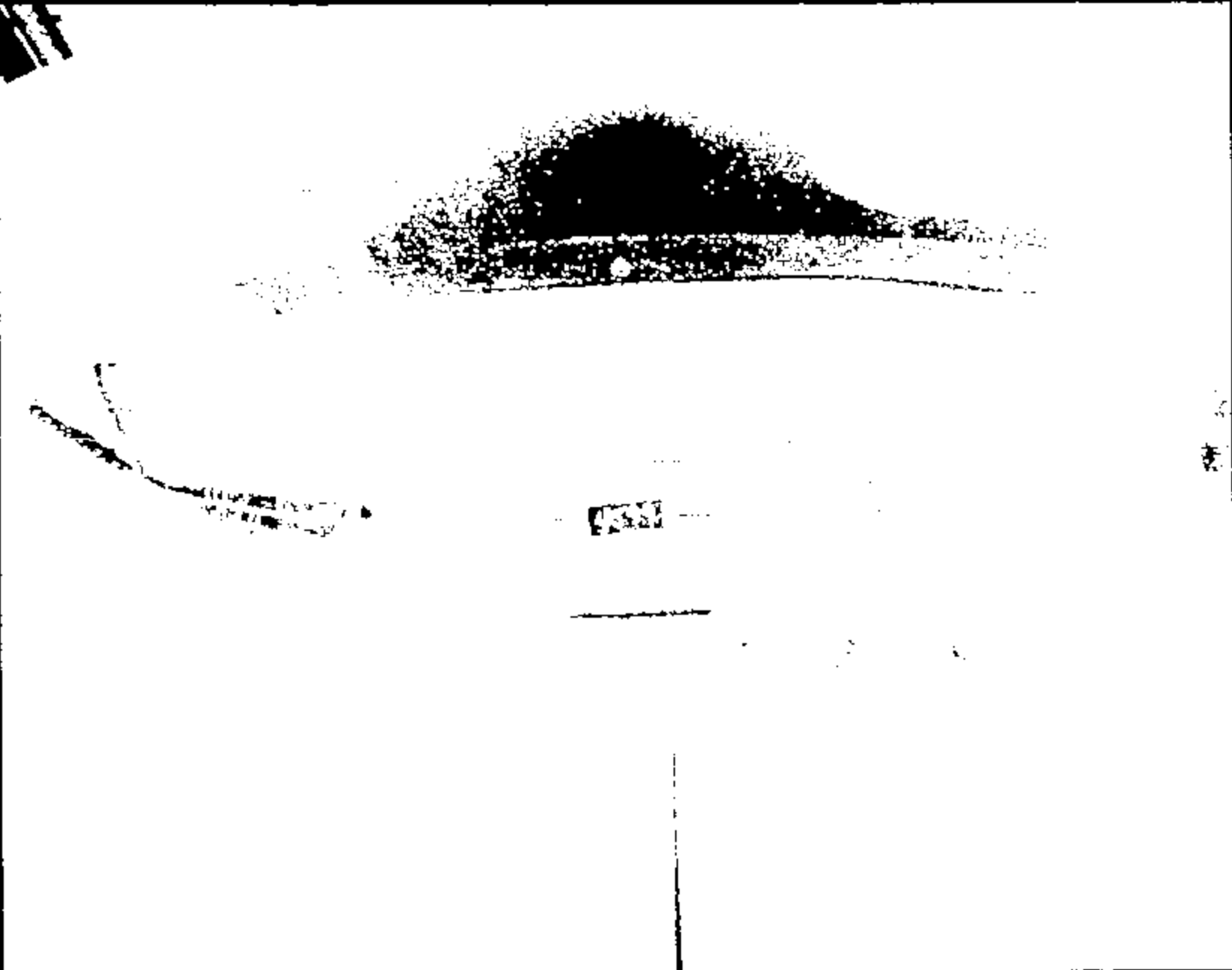
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CRITS 0010806

PLATED: 18-SEP-1967 12:12:13Z-BZ

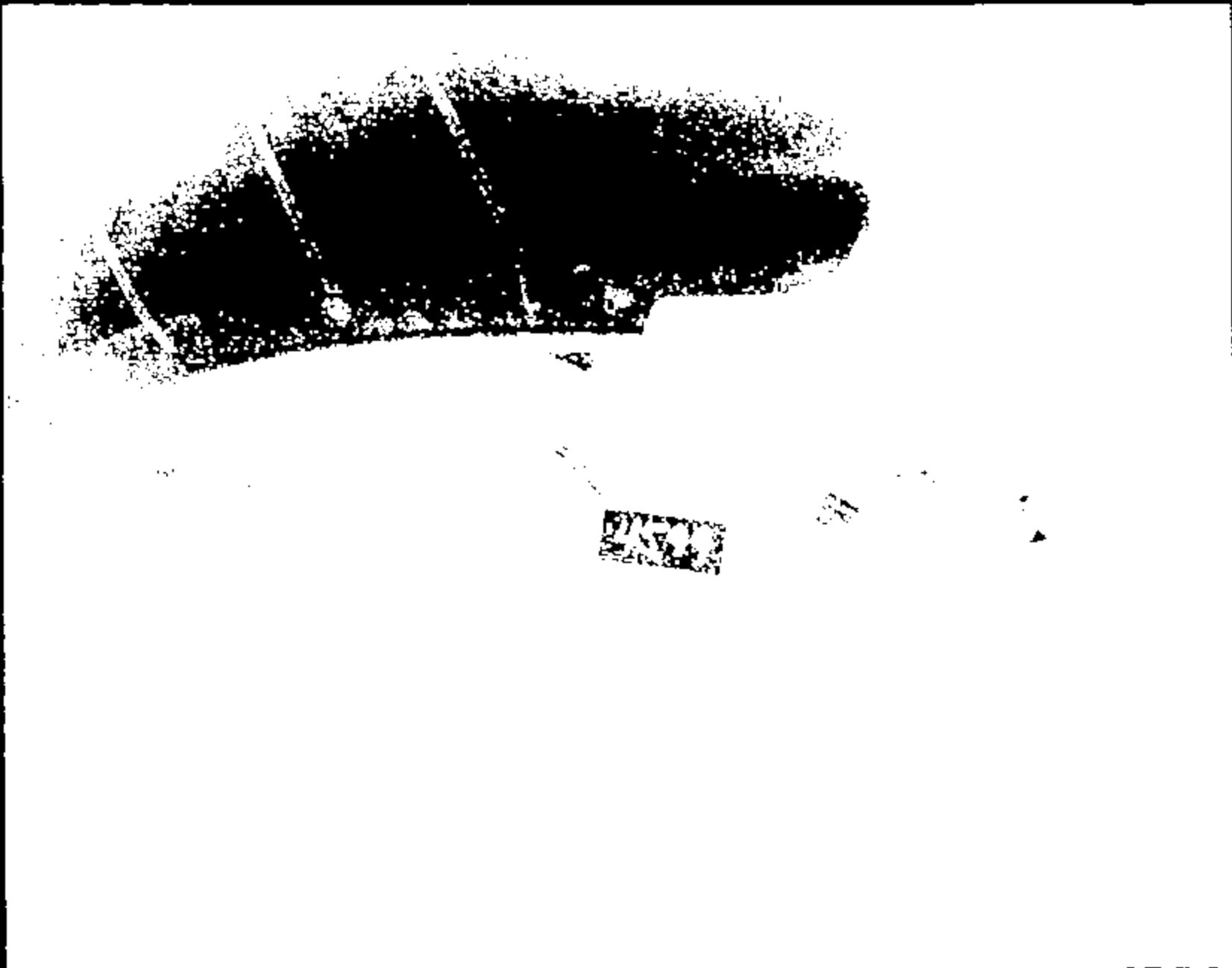
SHEET 157  
-4599



Name :

10806801.JPG

CRTS 0010806



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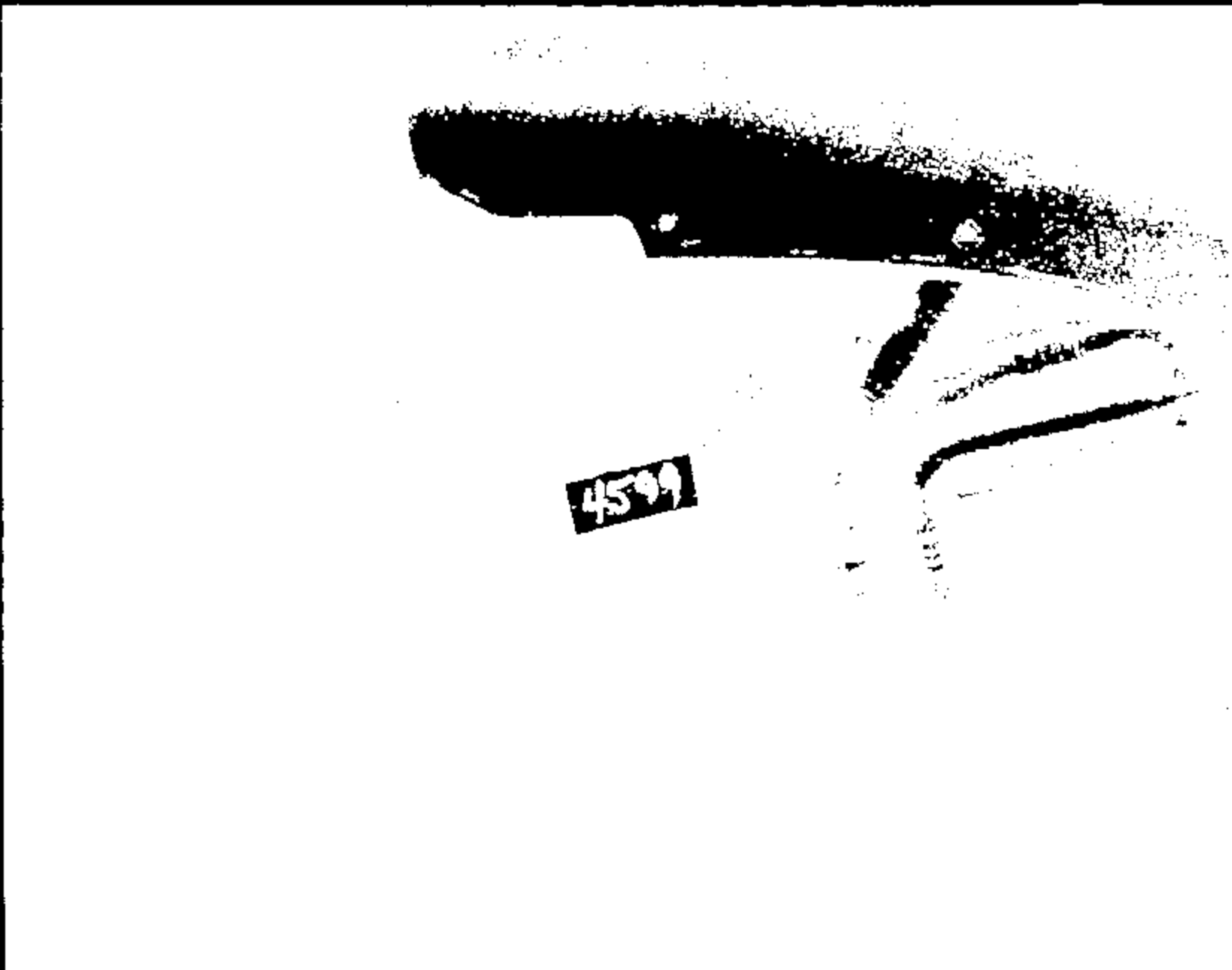
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CRTS 0010806

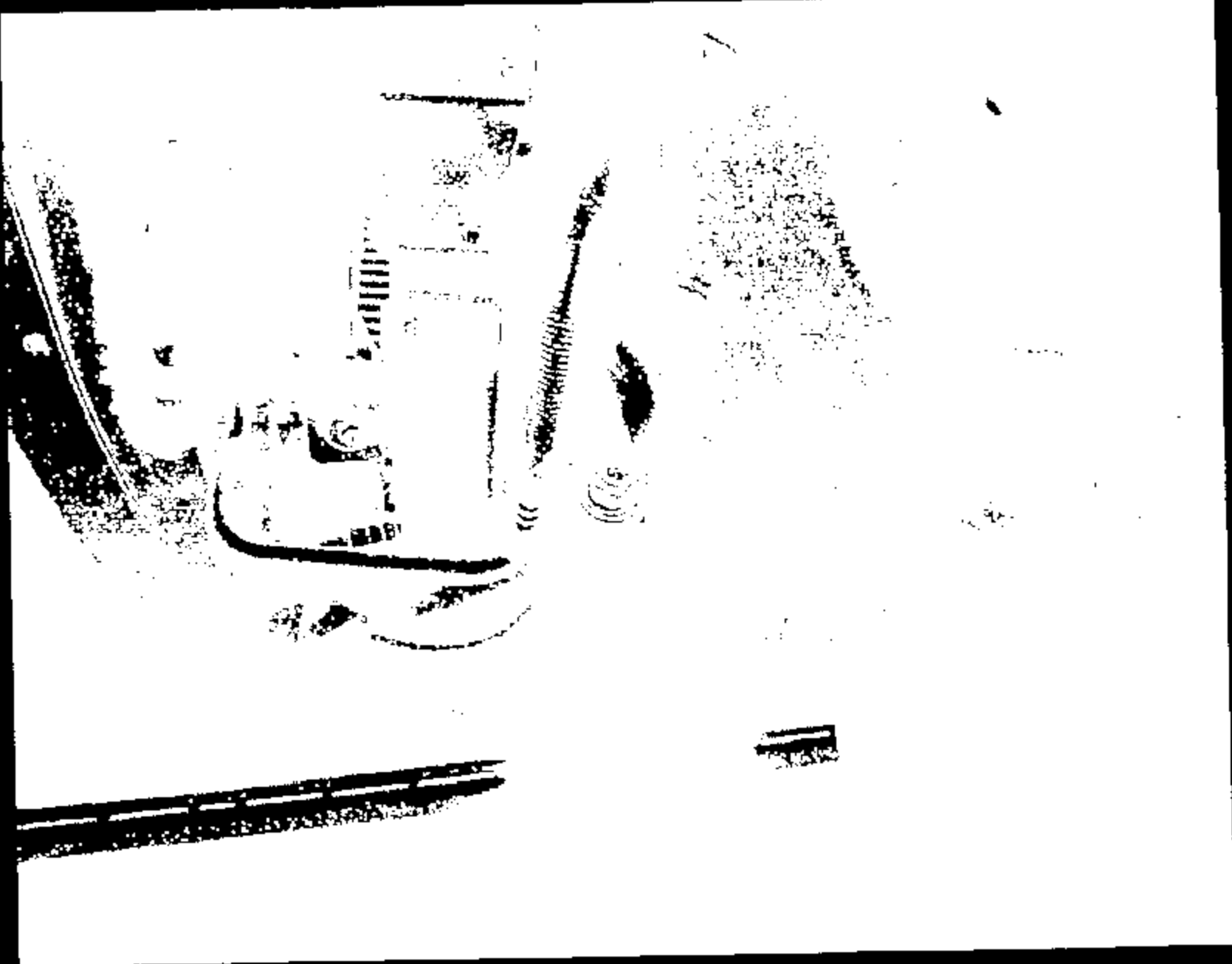


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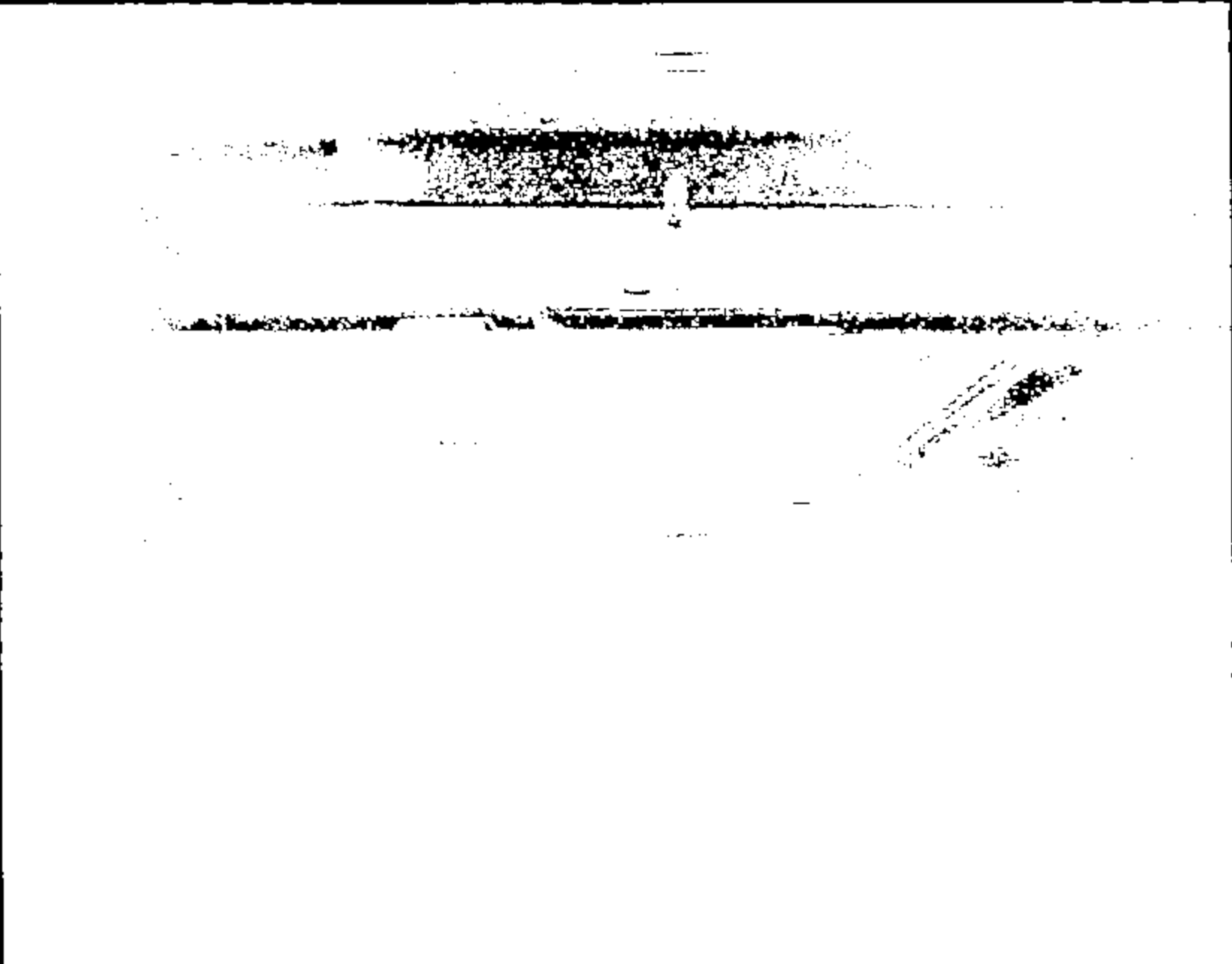
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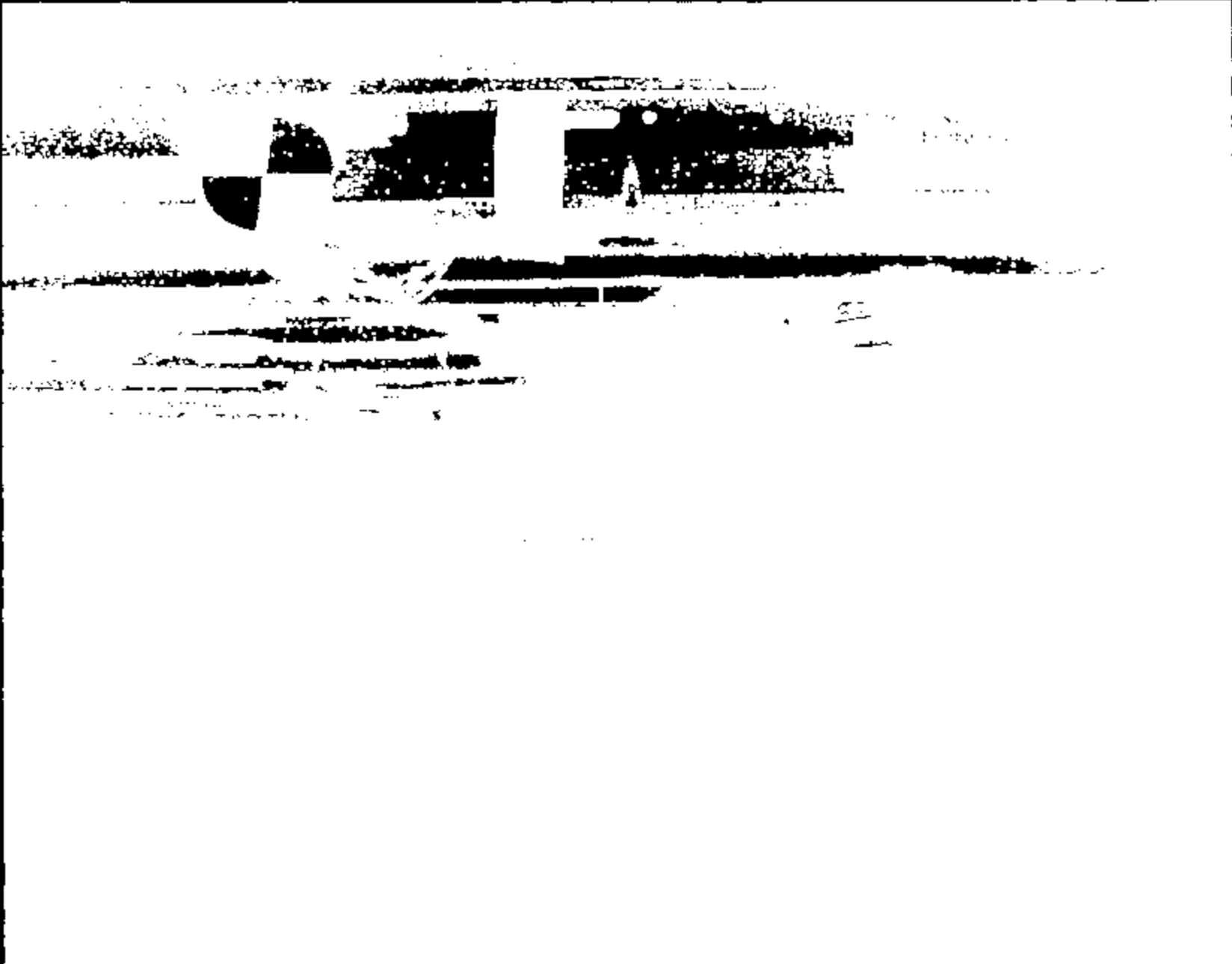
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10806006.JPG

CRTS 0010806

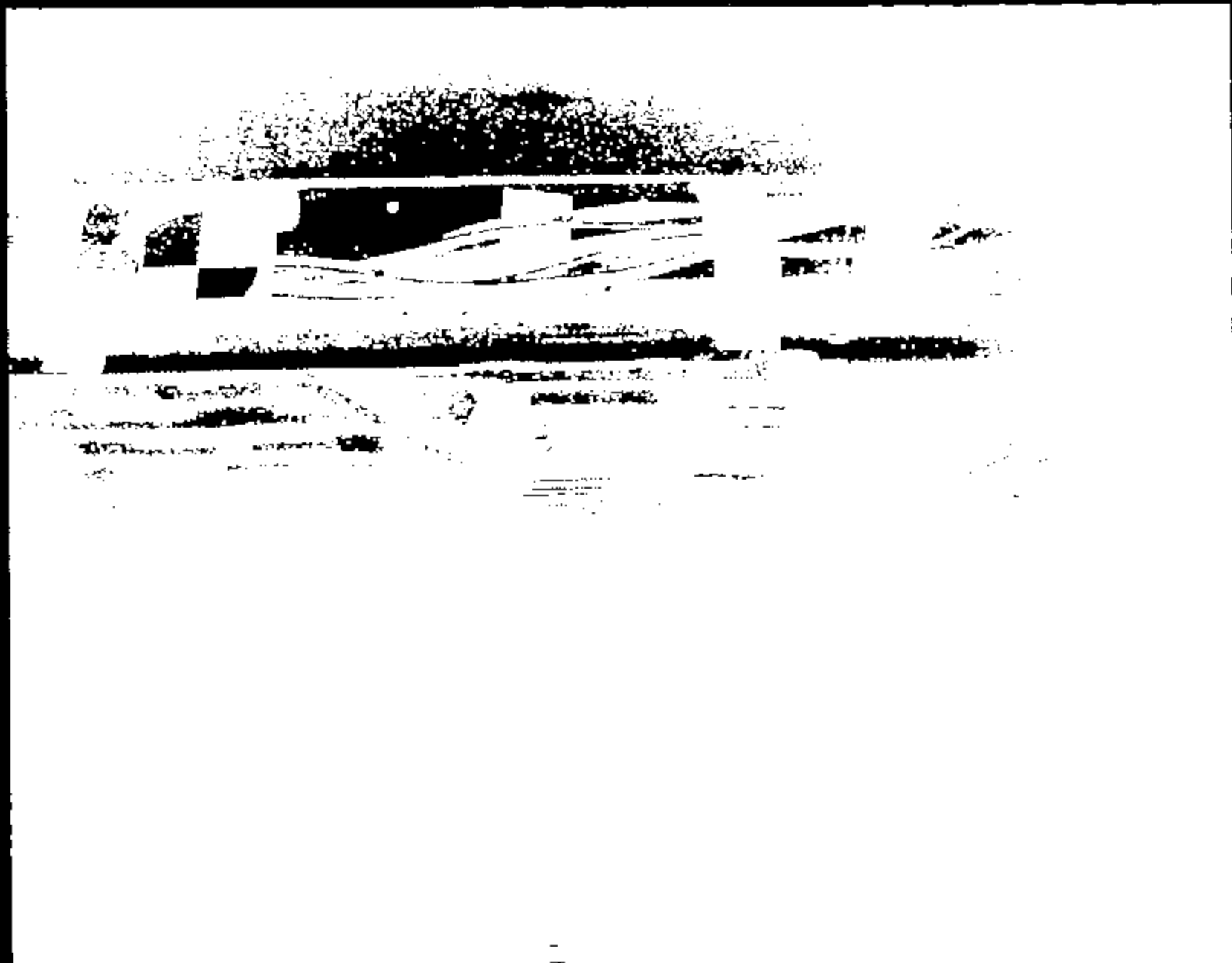


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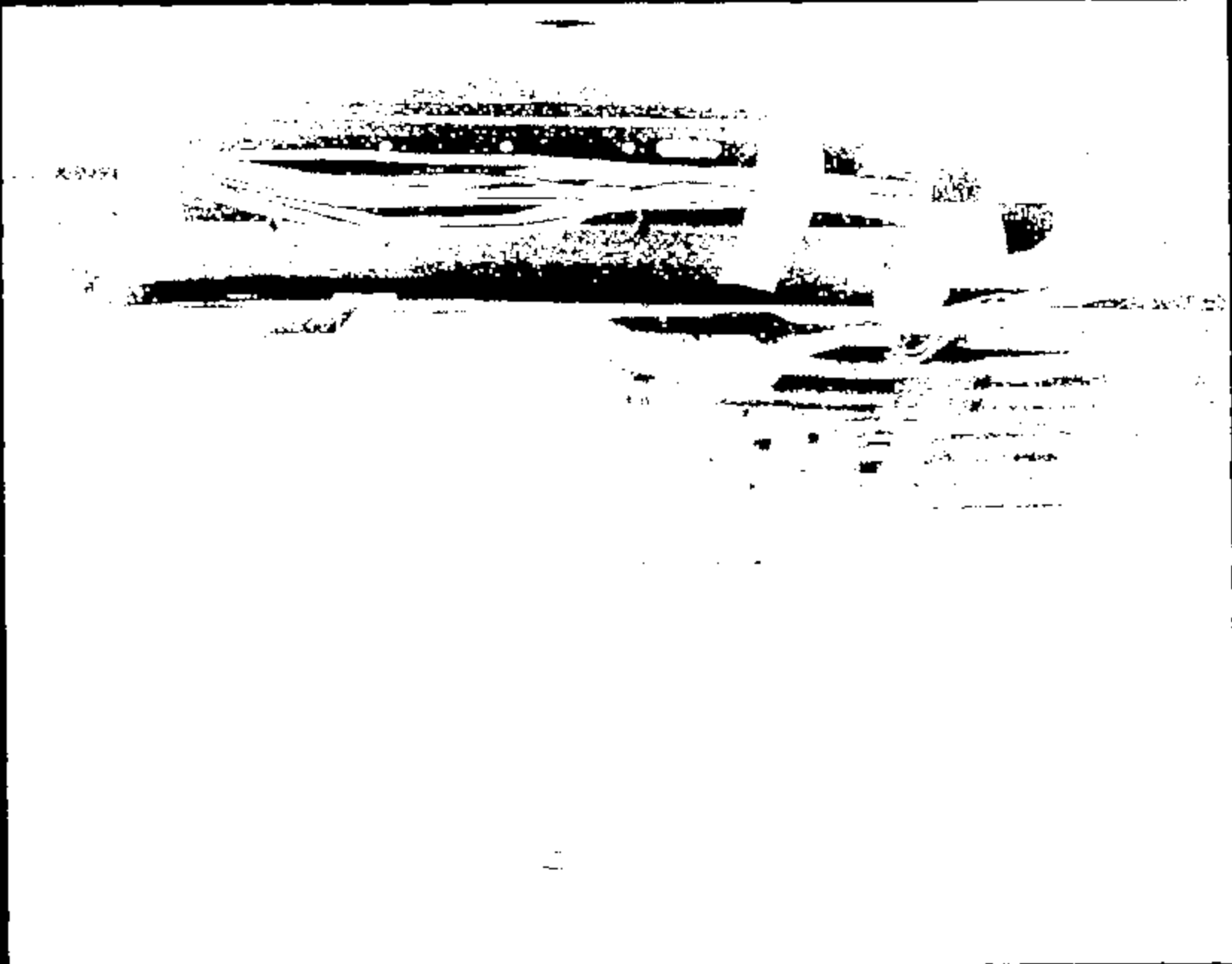
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CRITS 0010805





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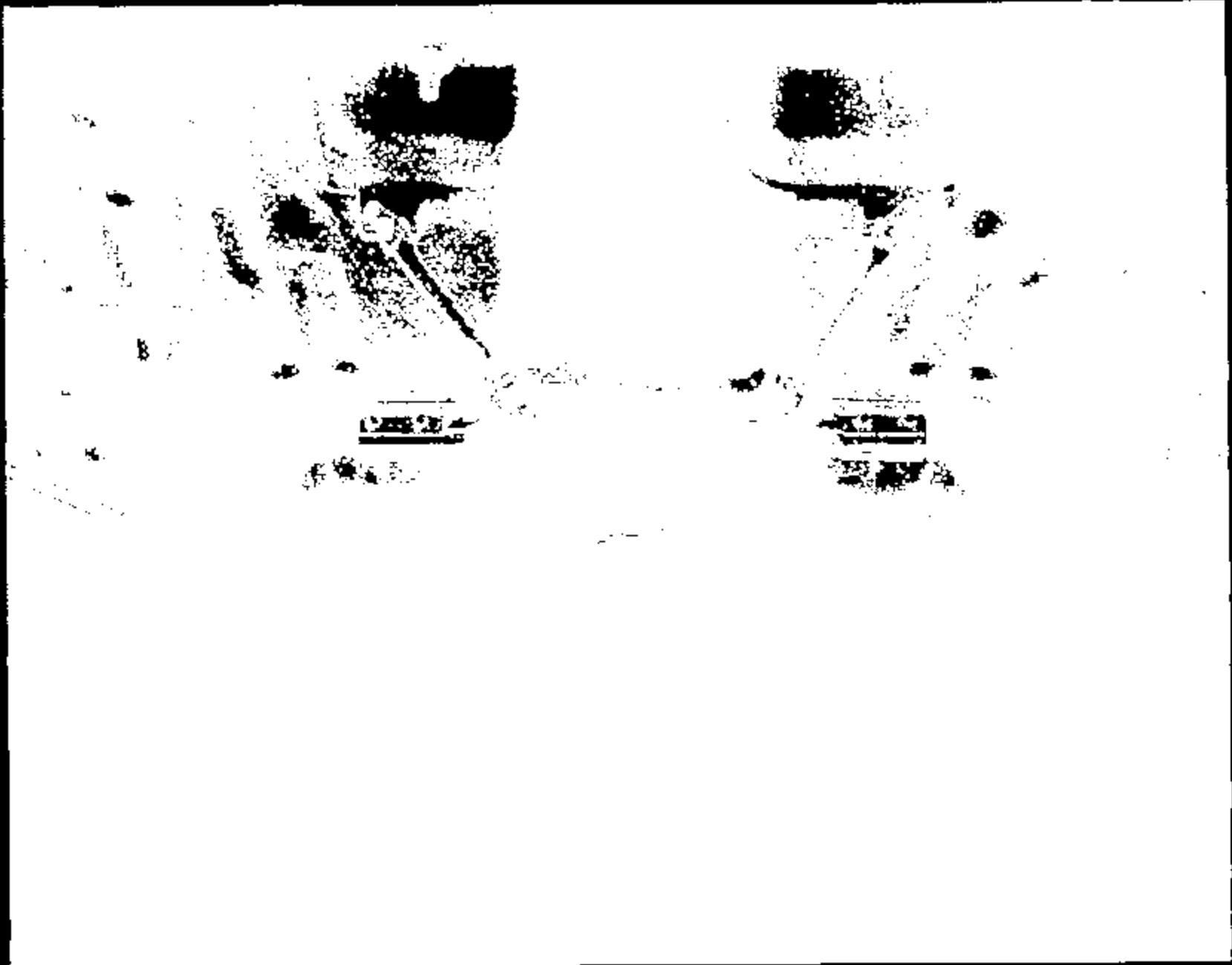


10806009

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10806009.JPG

CRTS 0010806



Name: 10806010.JPG

CRTS 0010805



Name:

19806011.JPG

CRITS 0010806

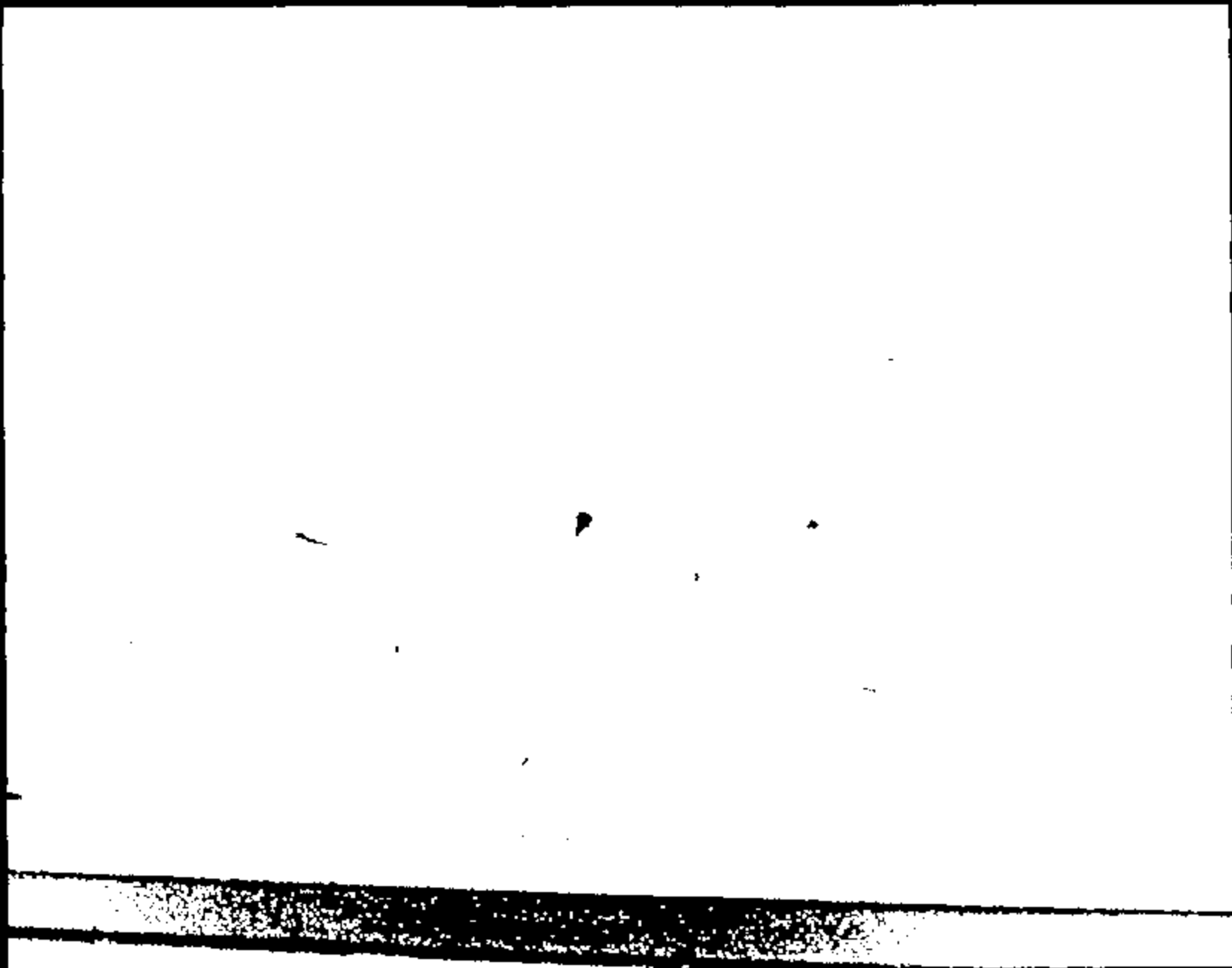
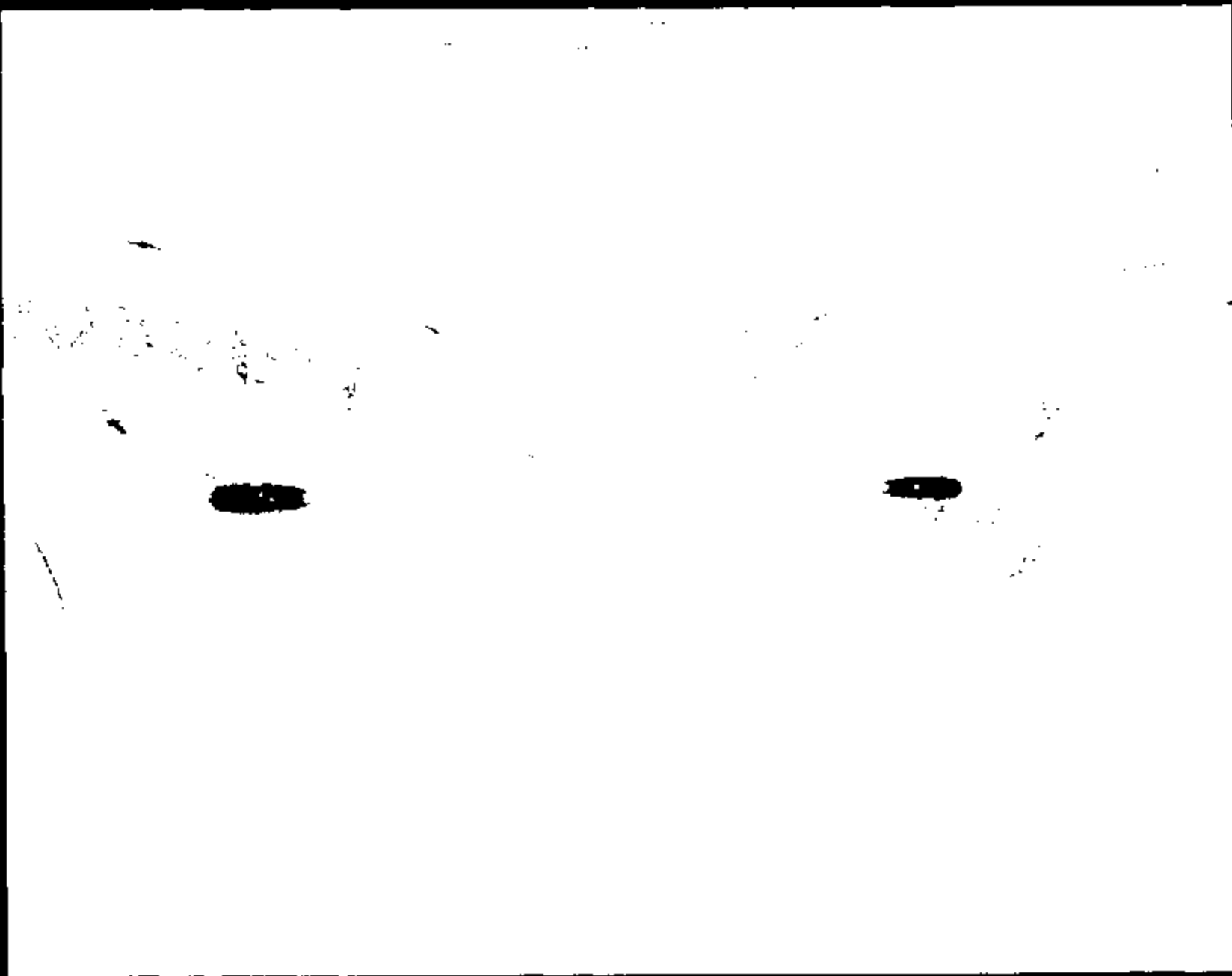


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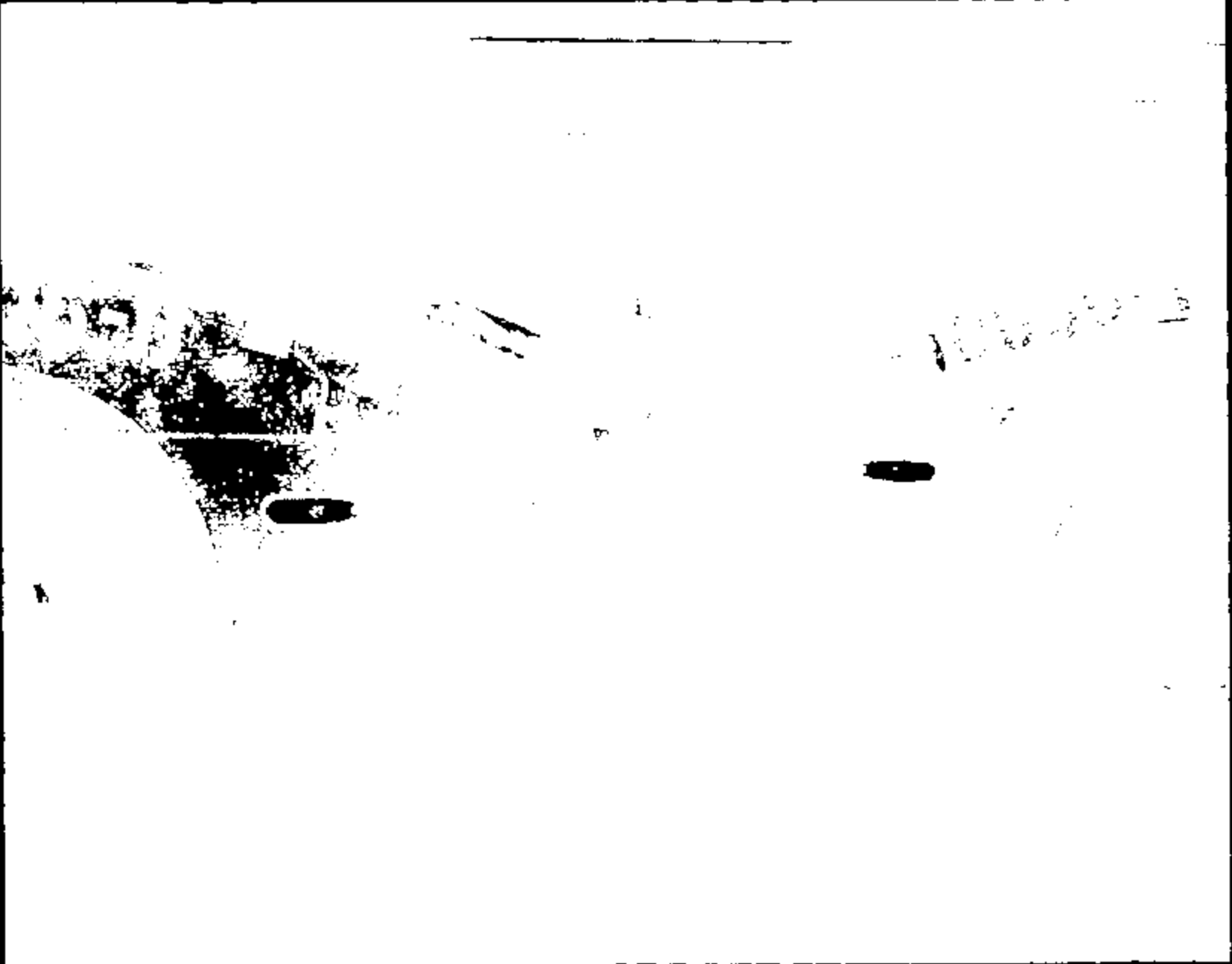
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Date :

10806013 .Jpg

CRJS 0010806

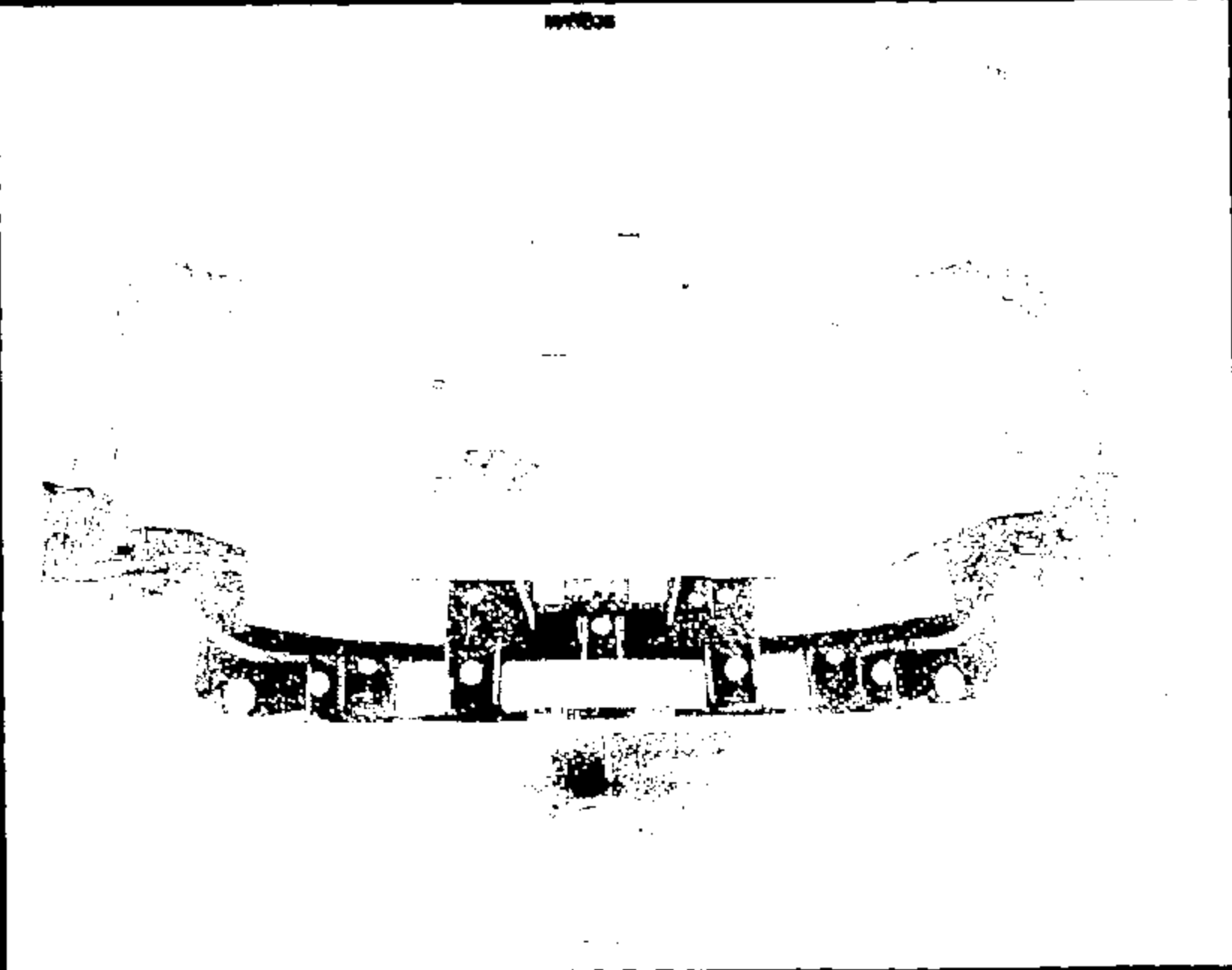


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197808

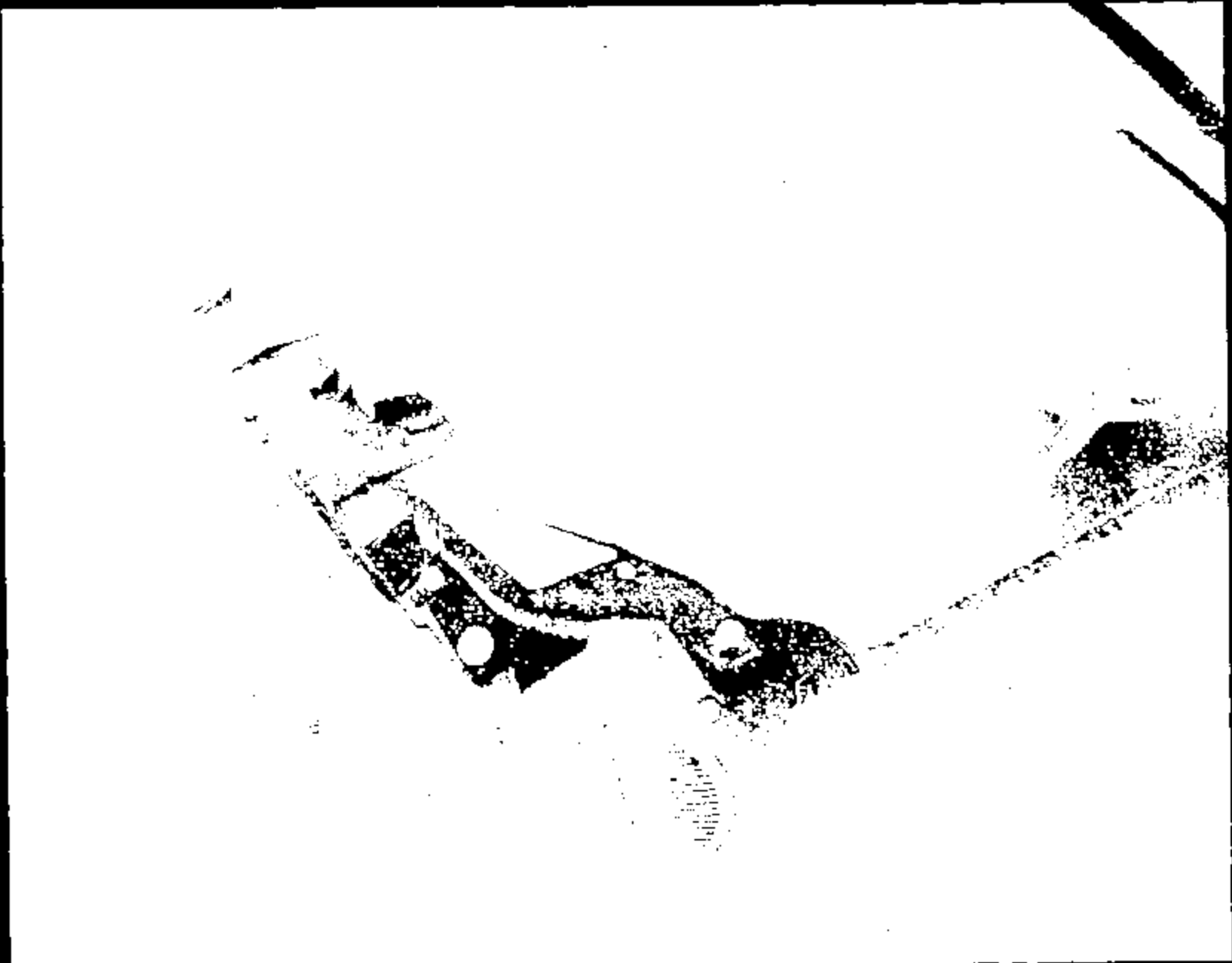


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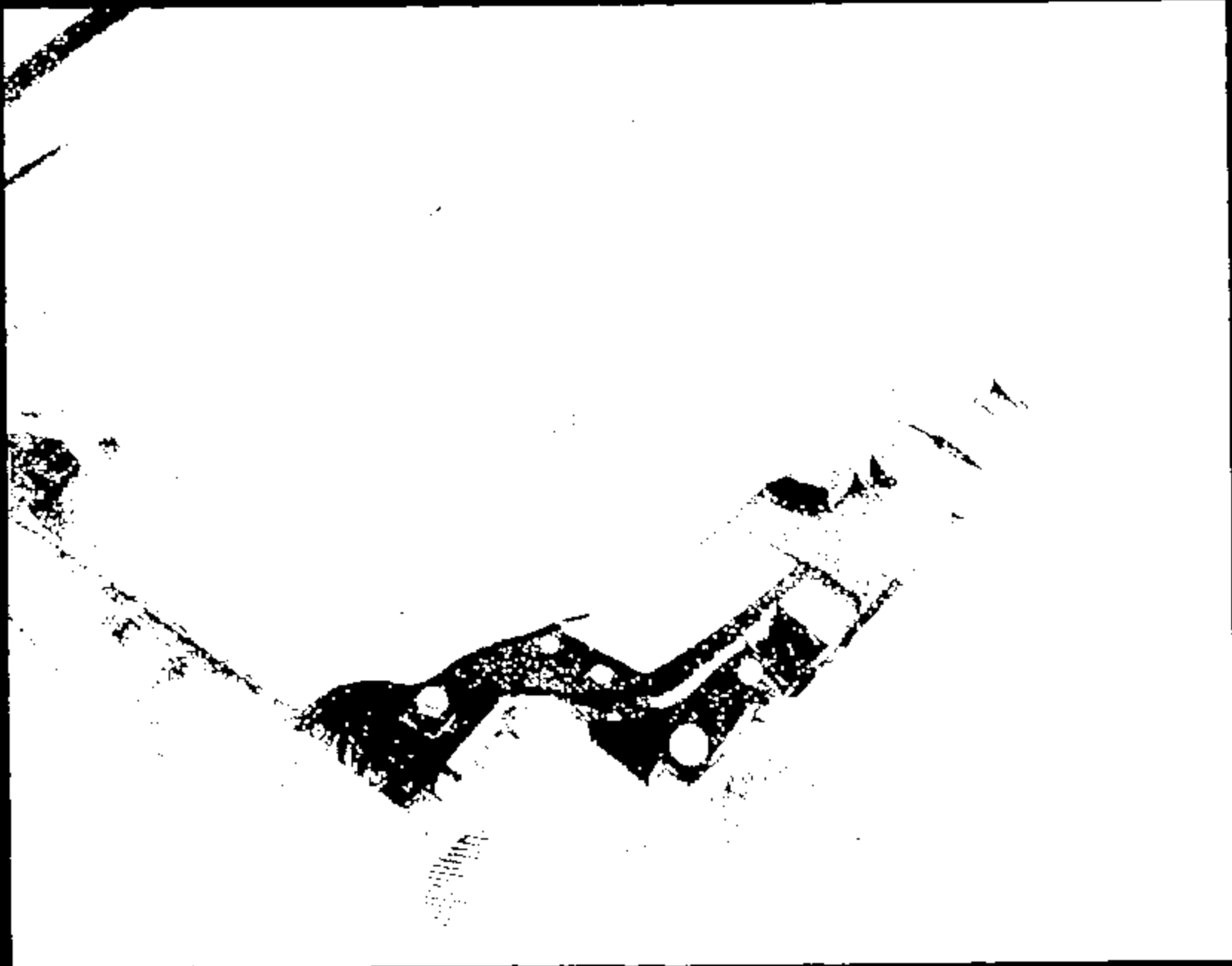




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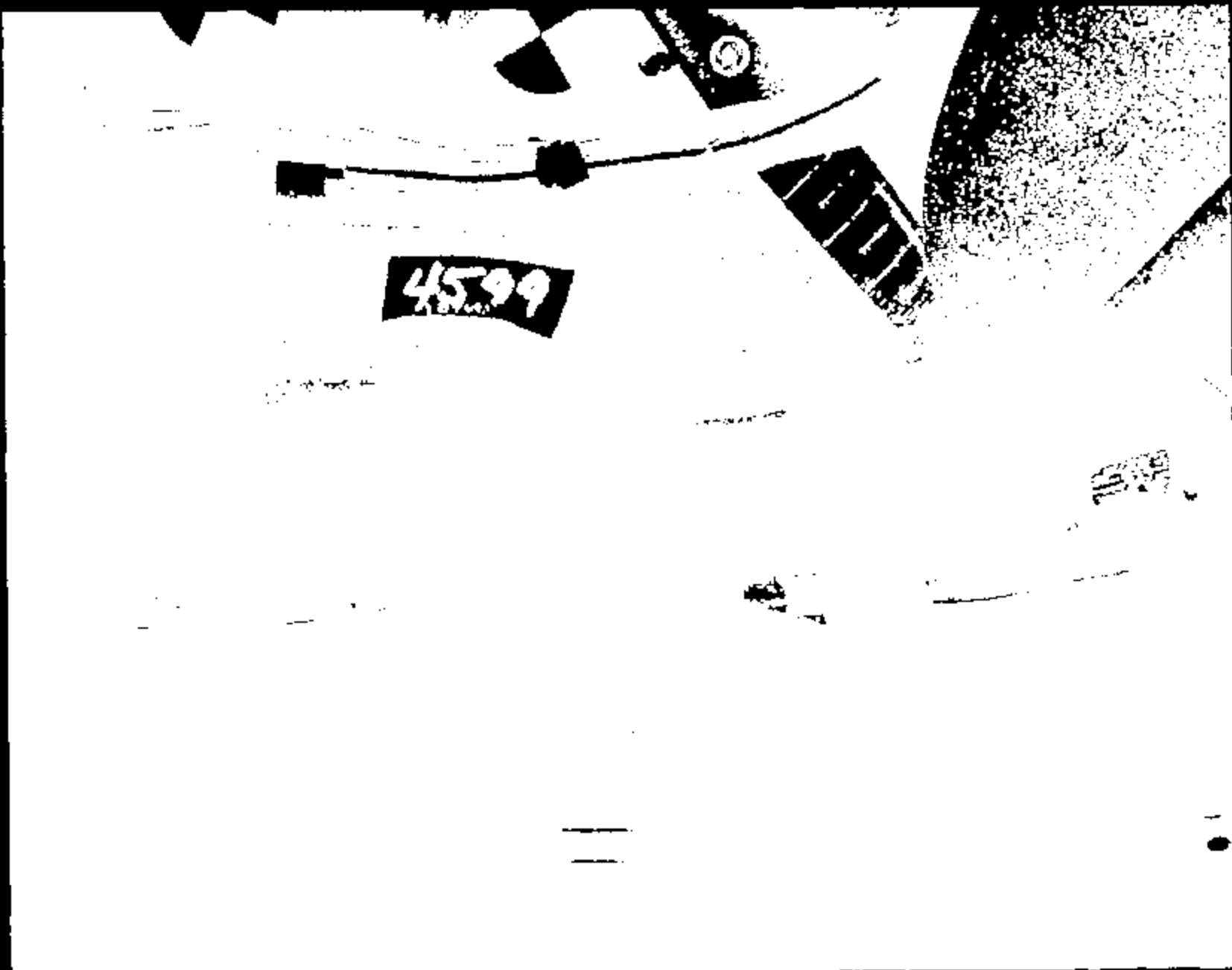
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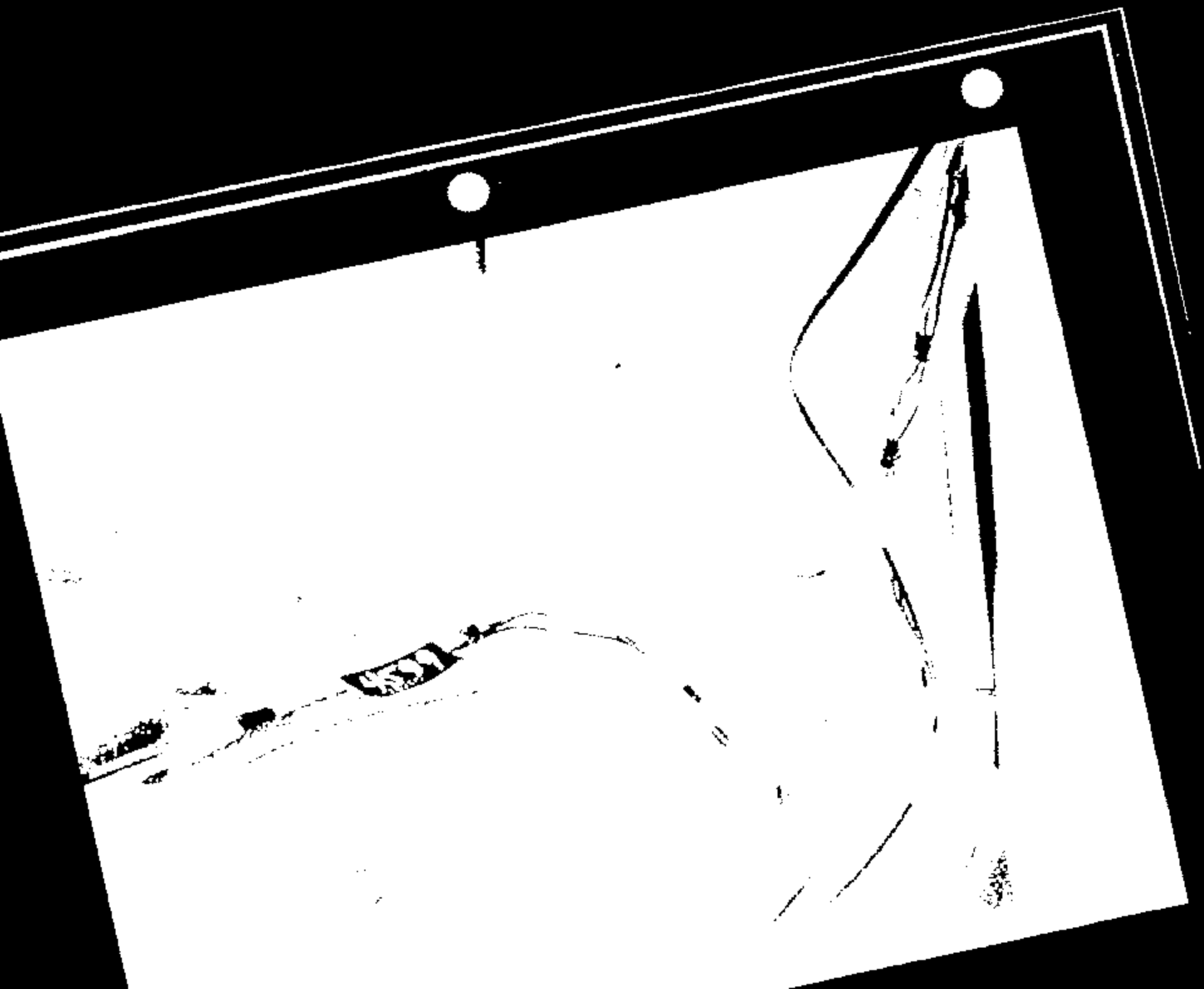
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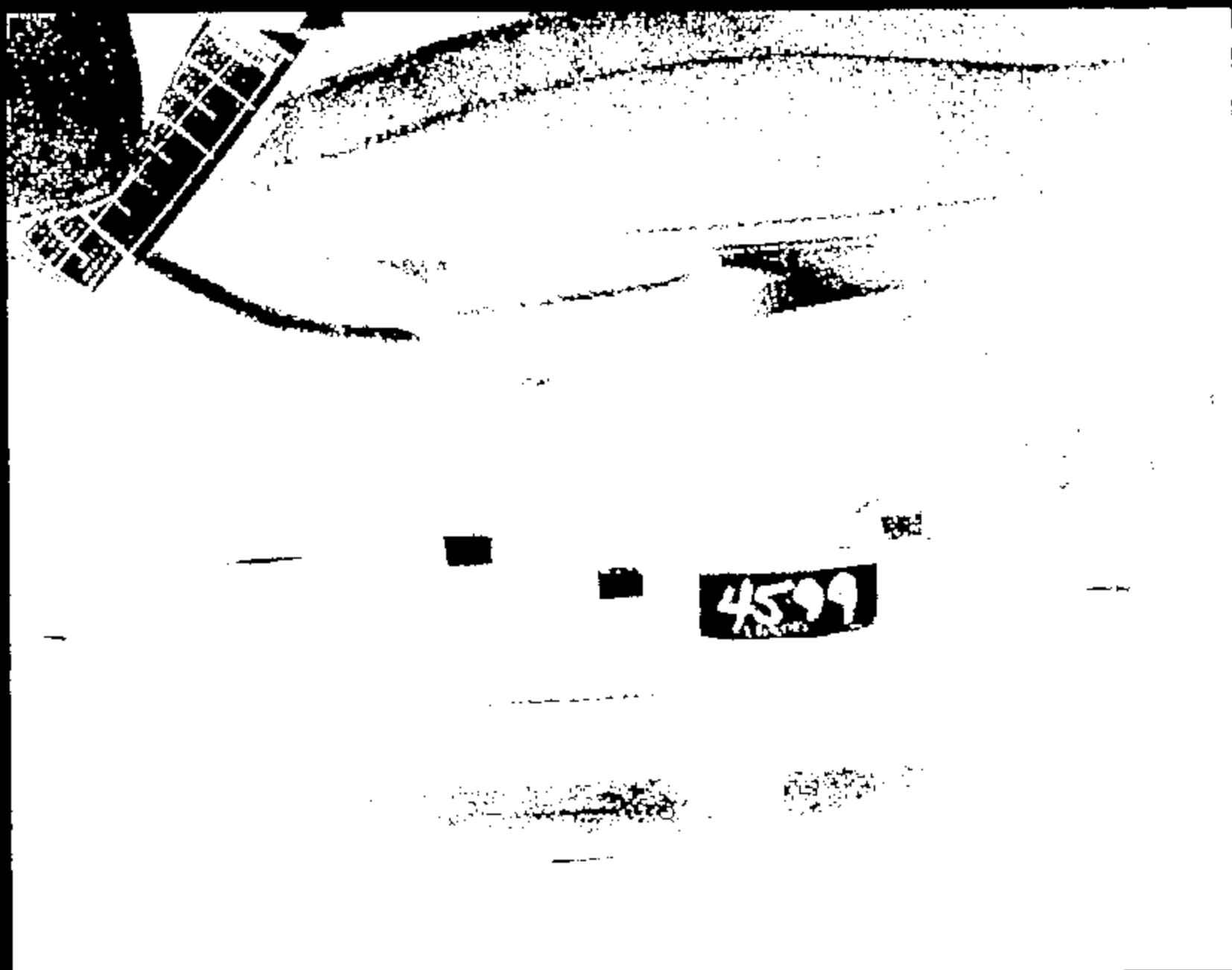
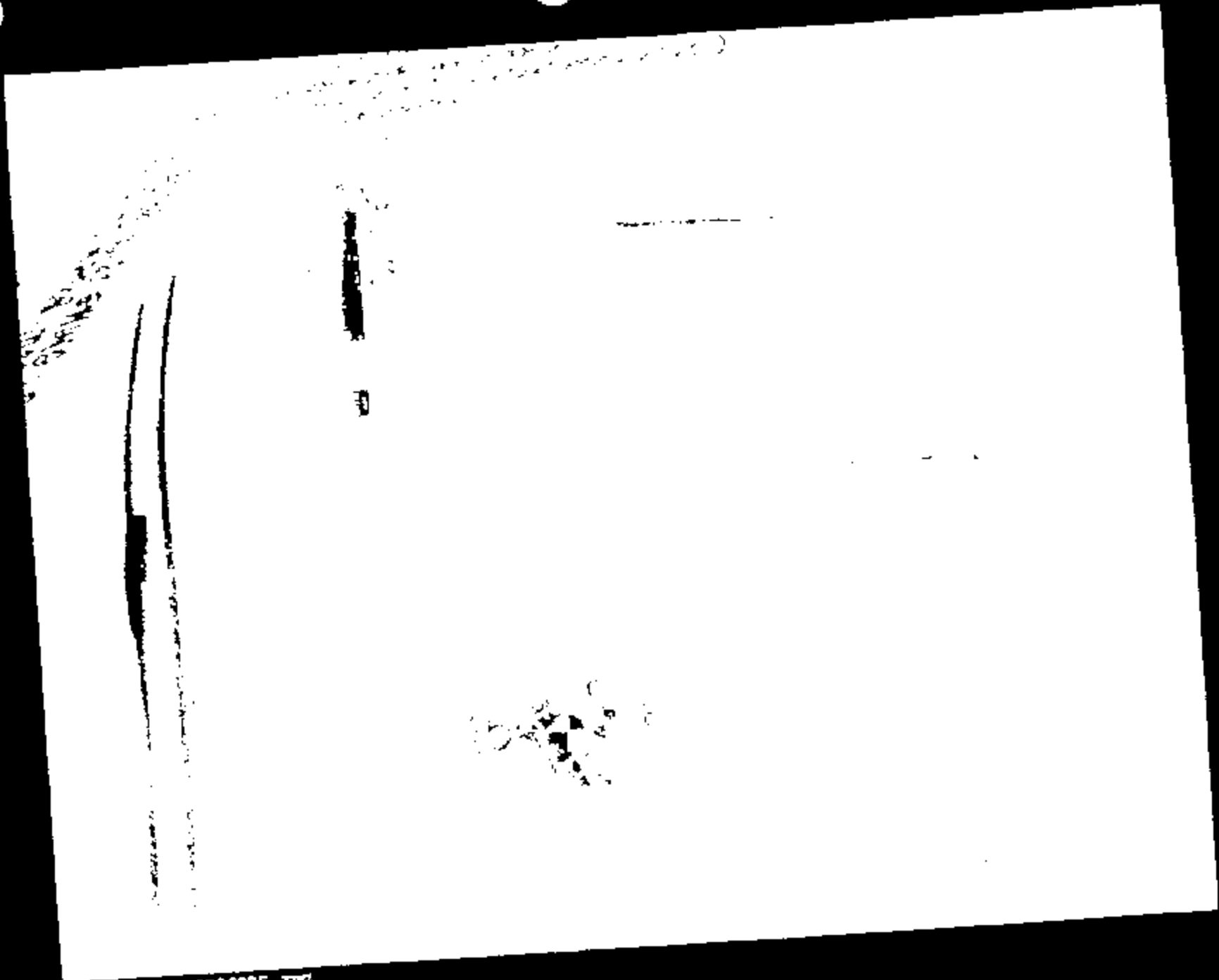


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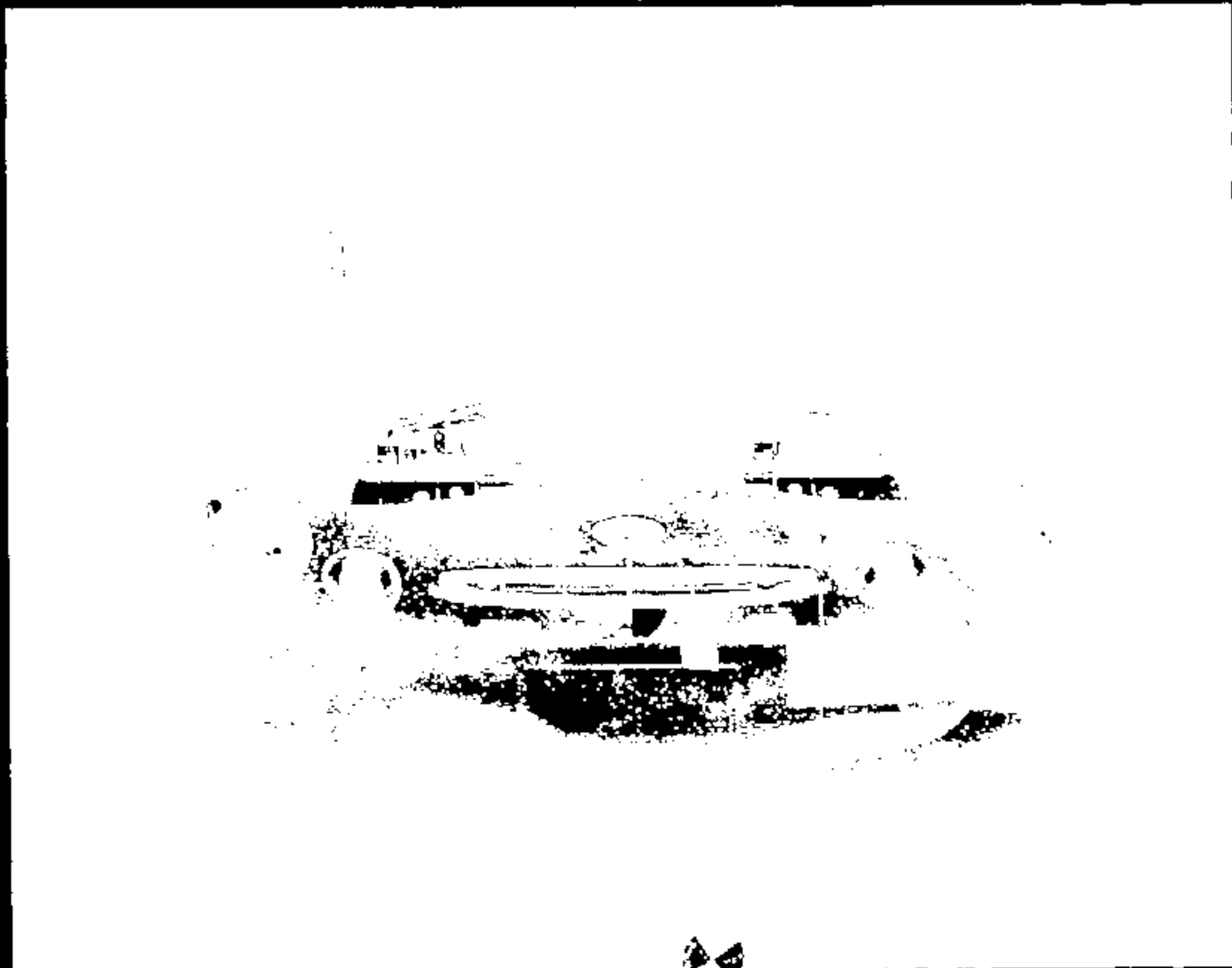
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CRTS 0010806



Header :

10806025.JPG



Name:

10806026.JPG

CRTS 0010806



Nome : 10806027.JPG

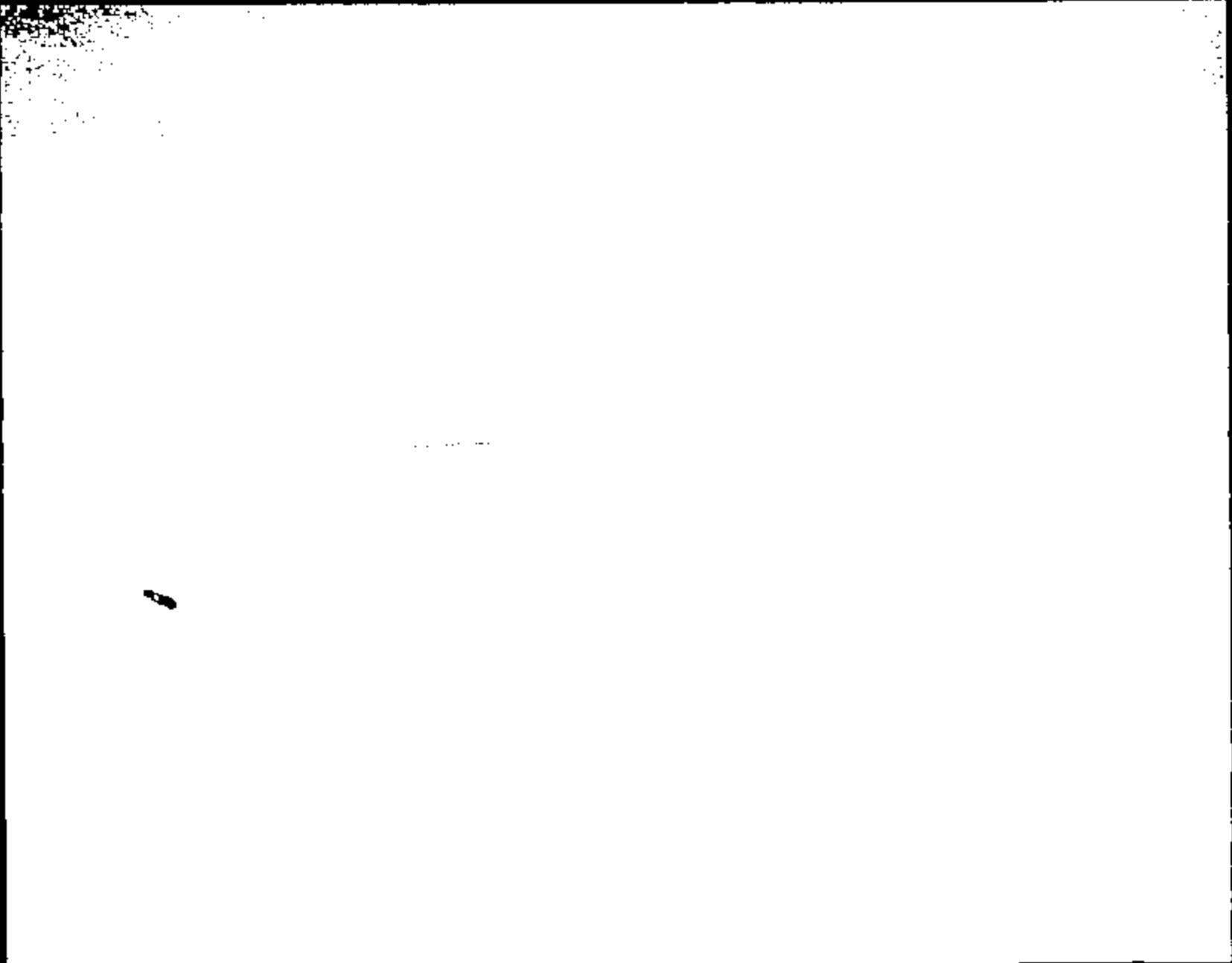
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CRTS 0010806



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10806029.JPG

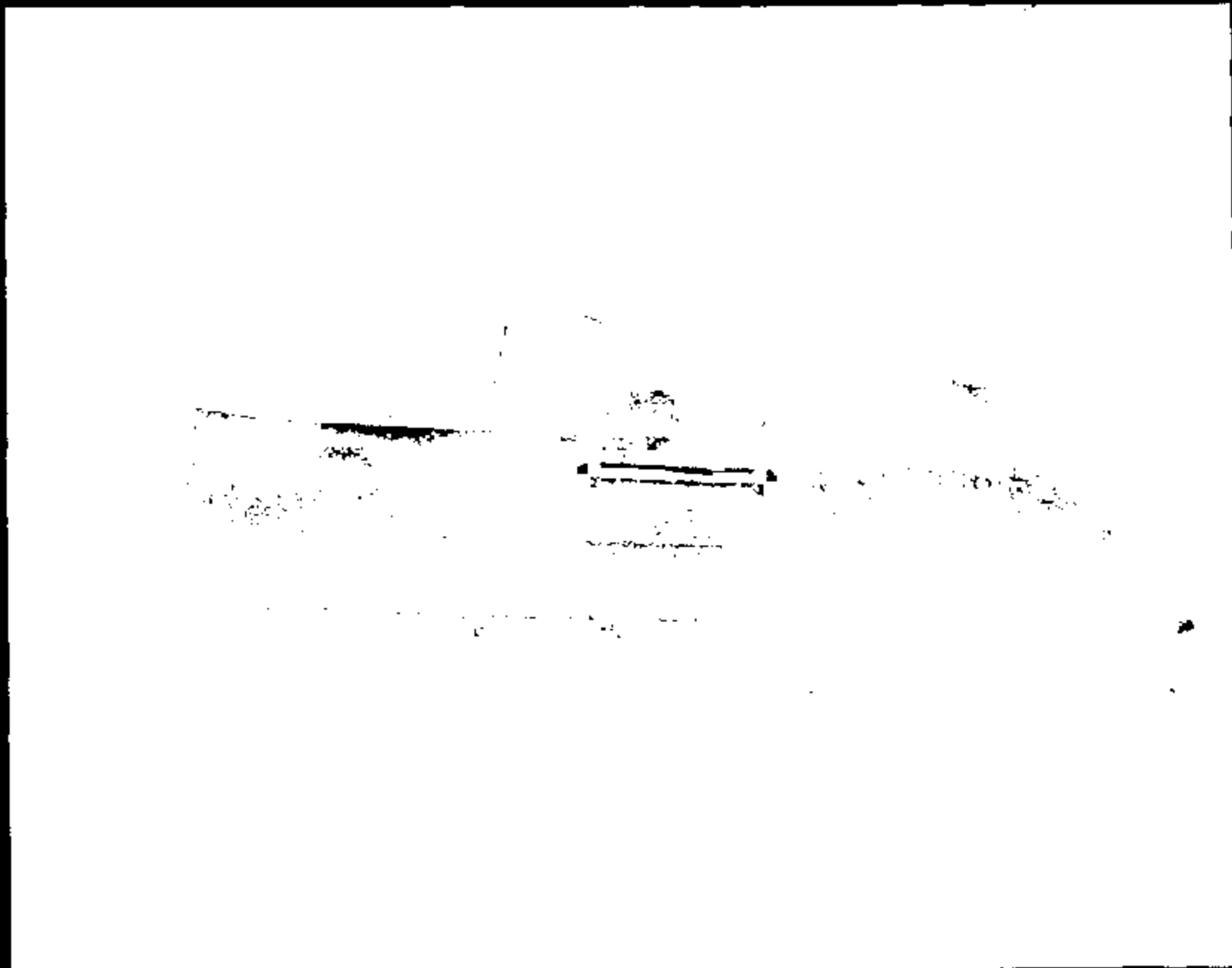
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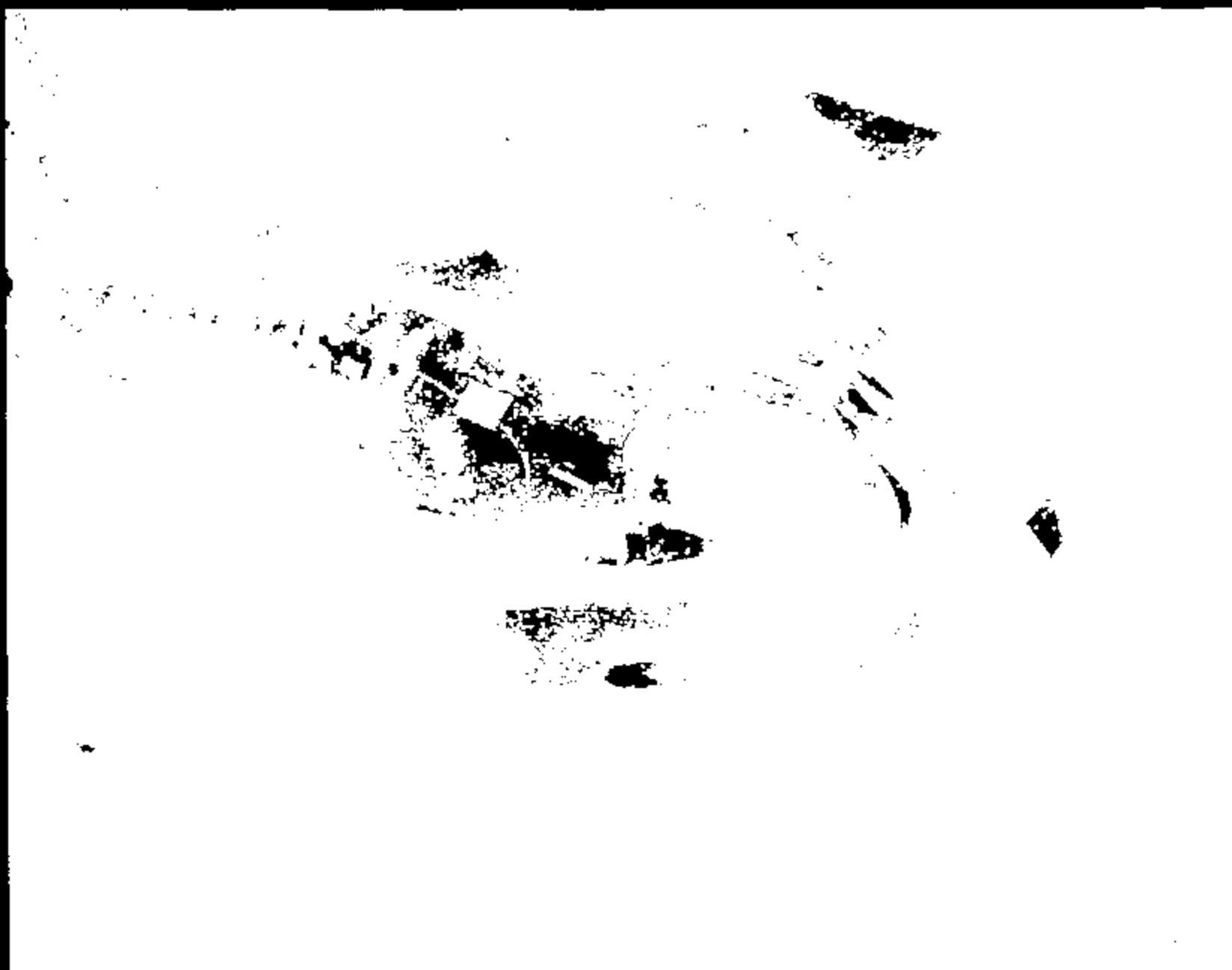


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CRIS 0010806

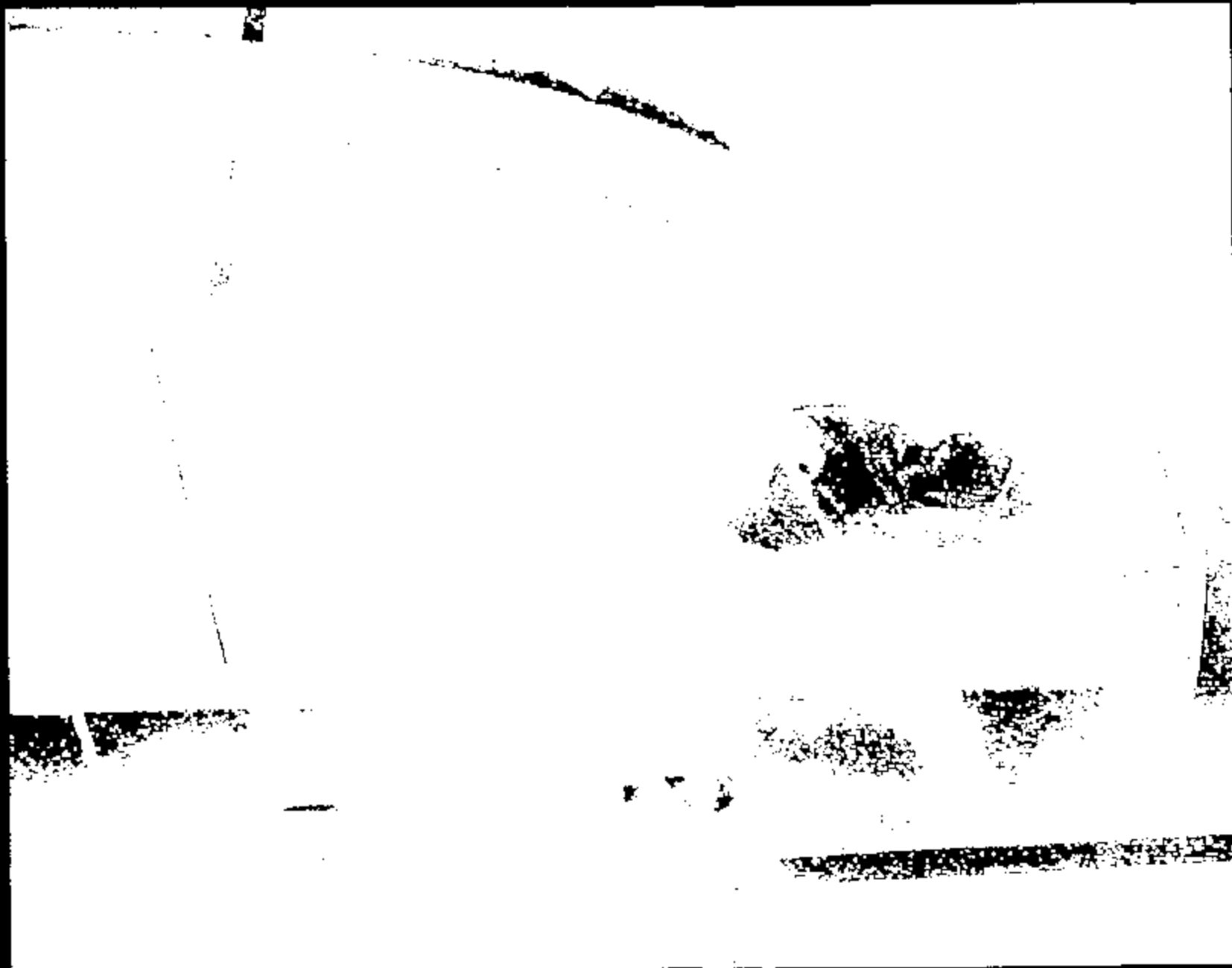




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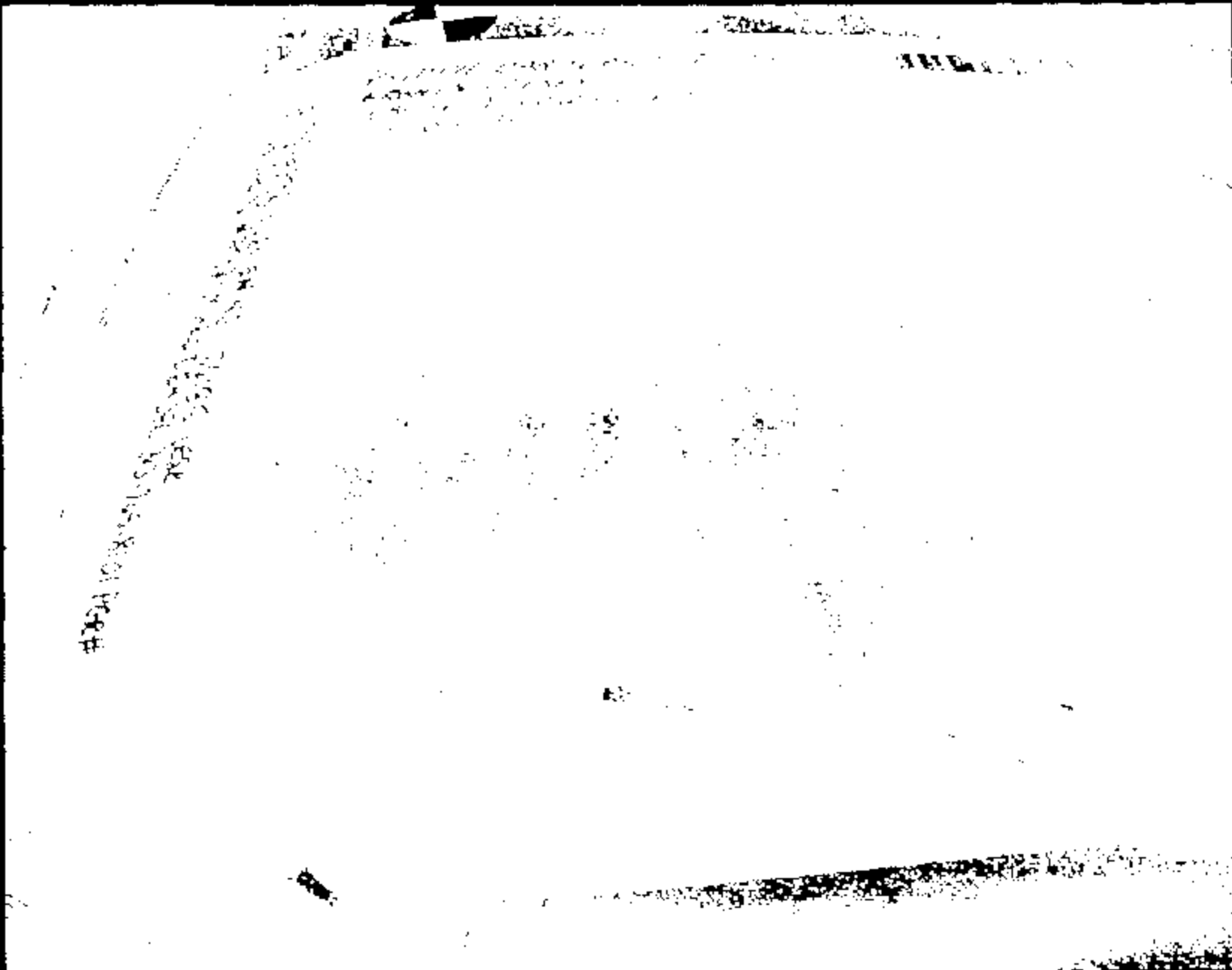
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CRTS 0010806



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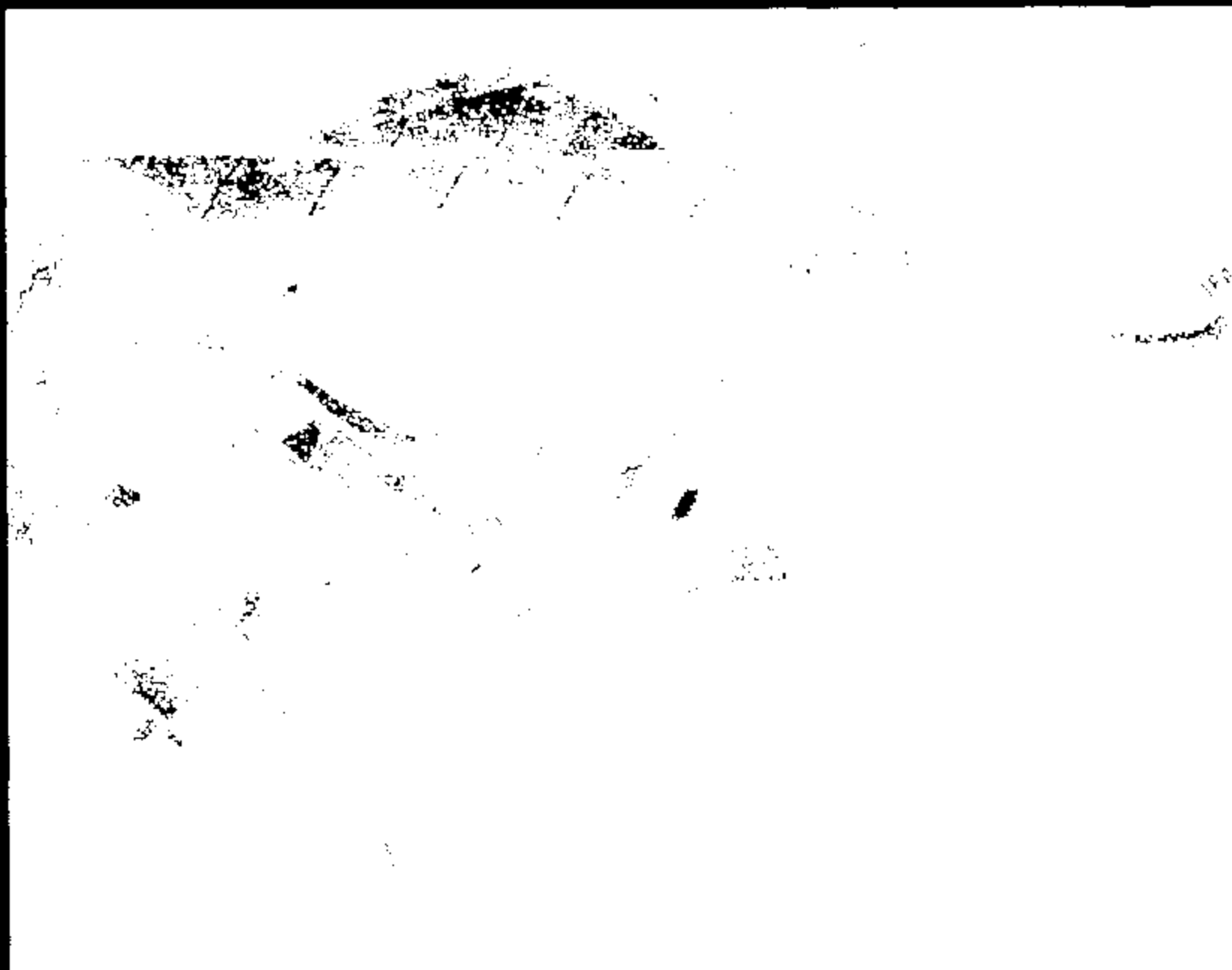
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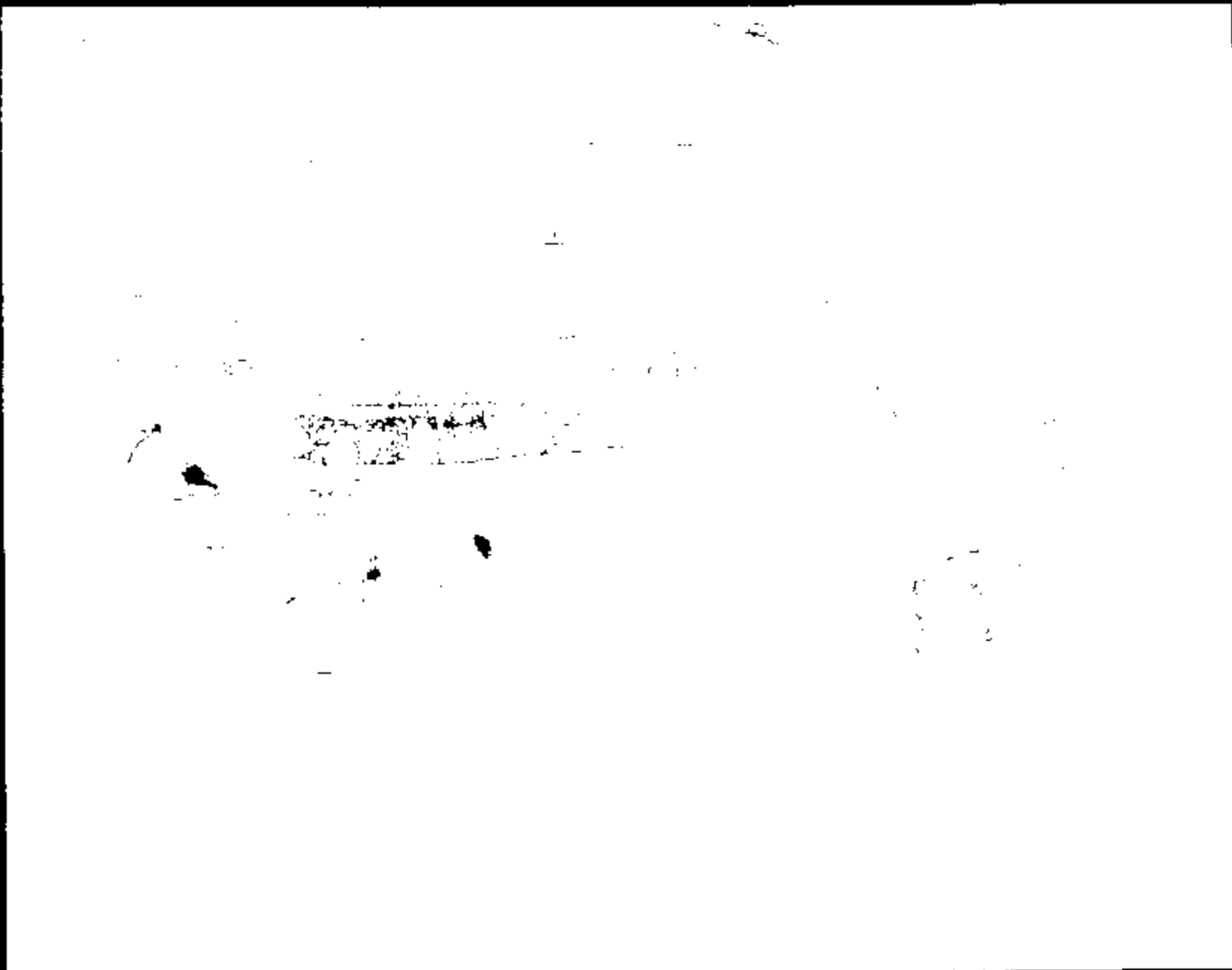


Name:

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CRTS 0010806

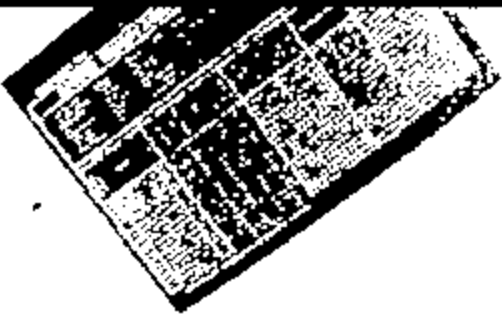
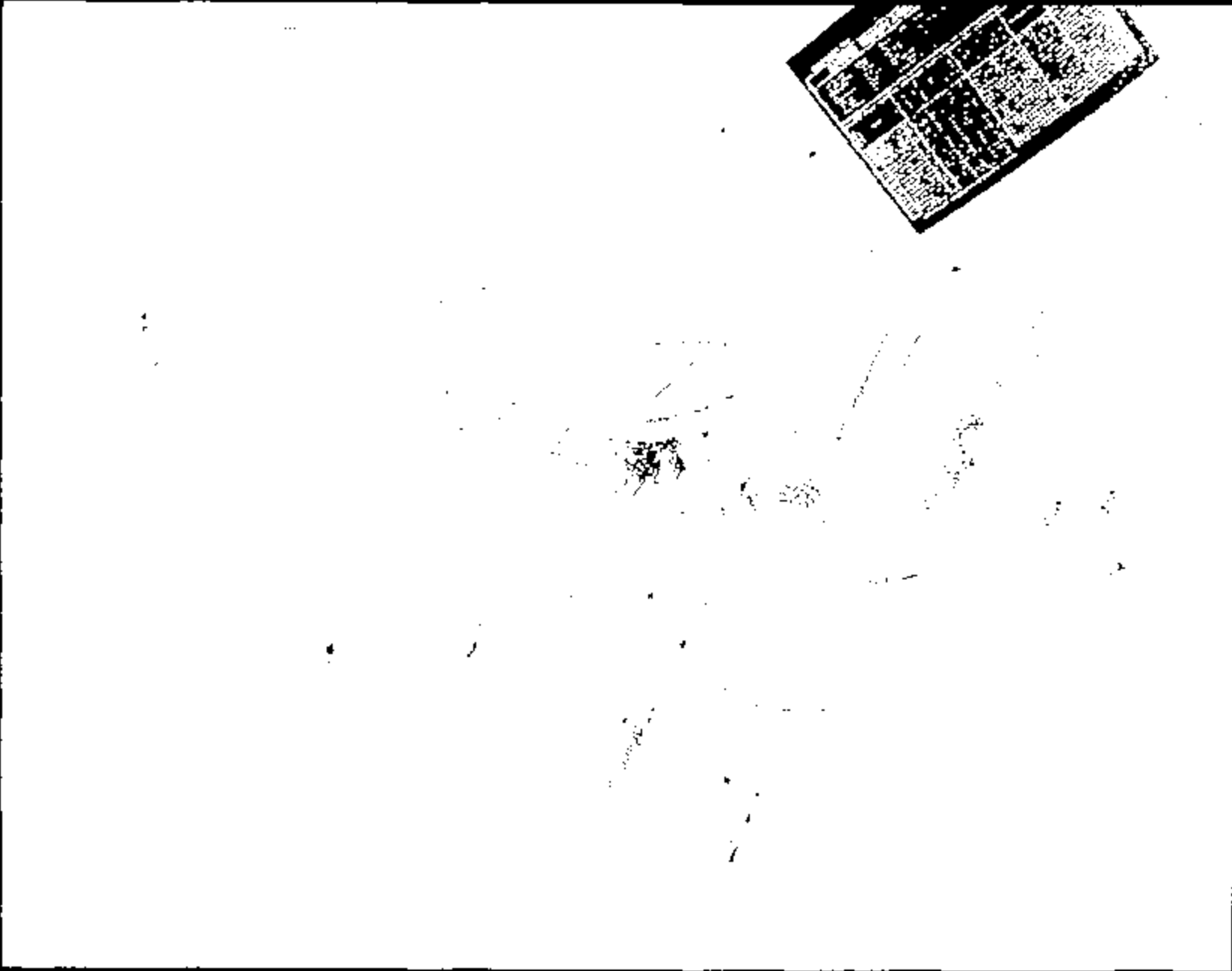




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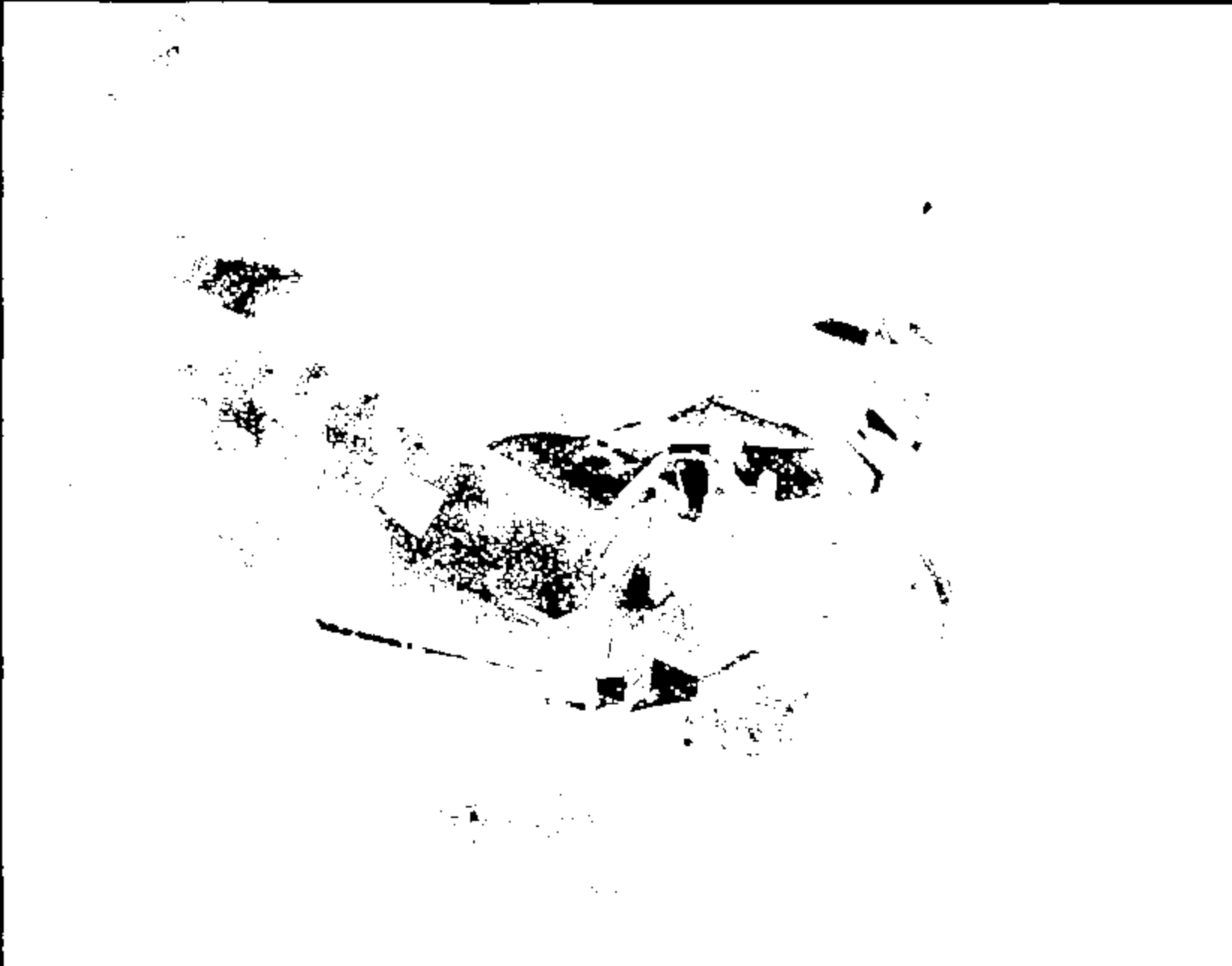
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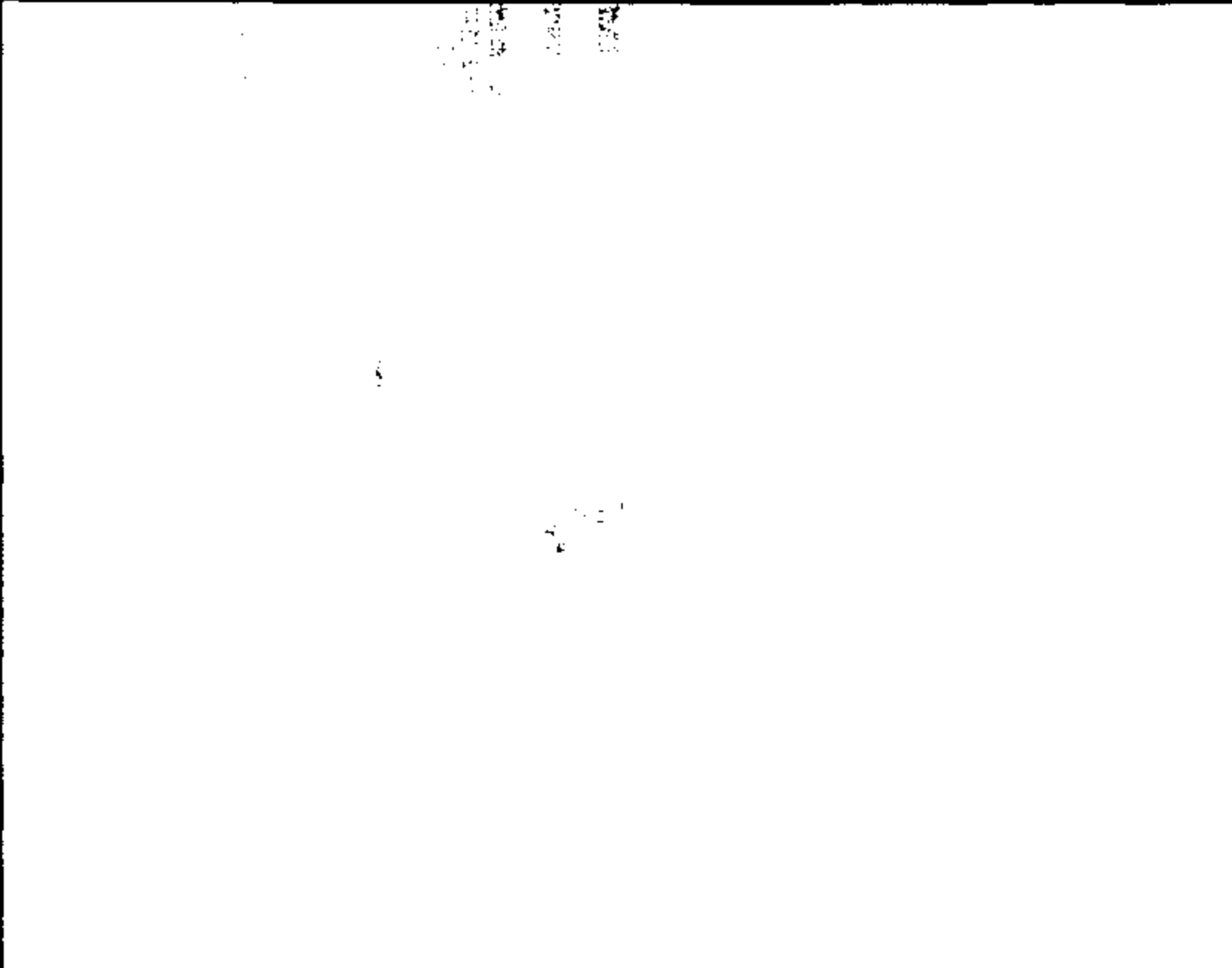


Name 1

10806039 .JPG

CRTS 0010806





11111111  
22222222  
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44444444  
55555555  
66666666  
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88888888  
99999999  
00000000

Name :

10806040 .JPG

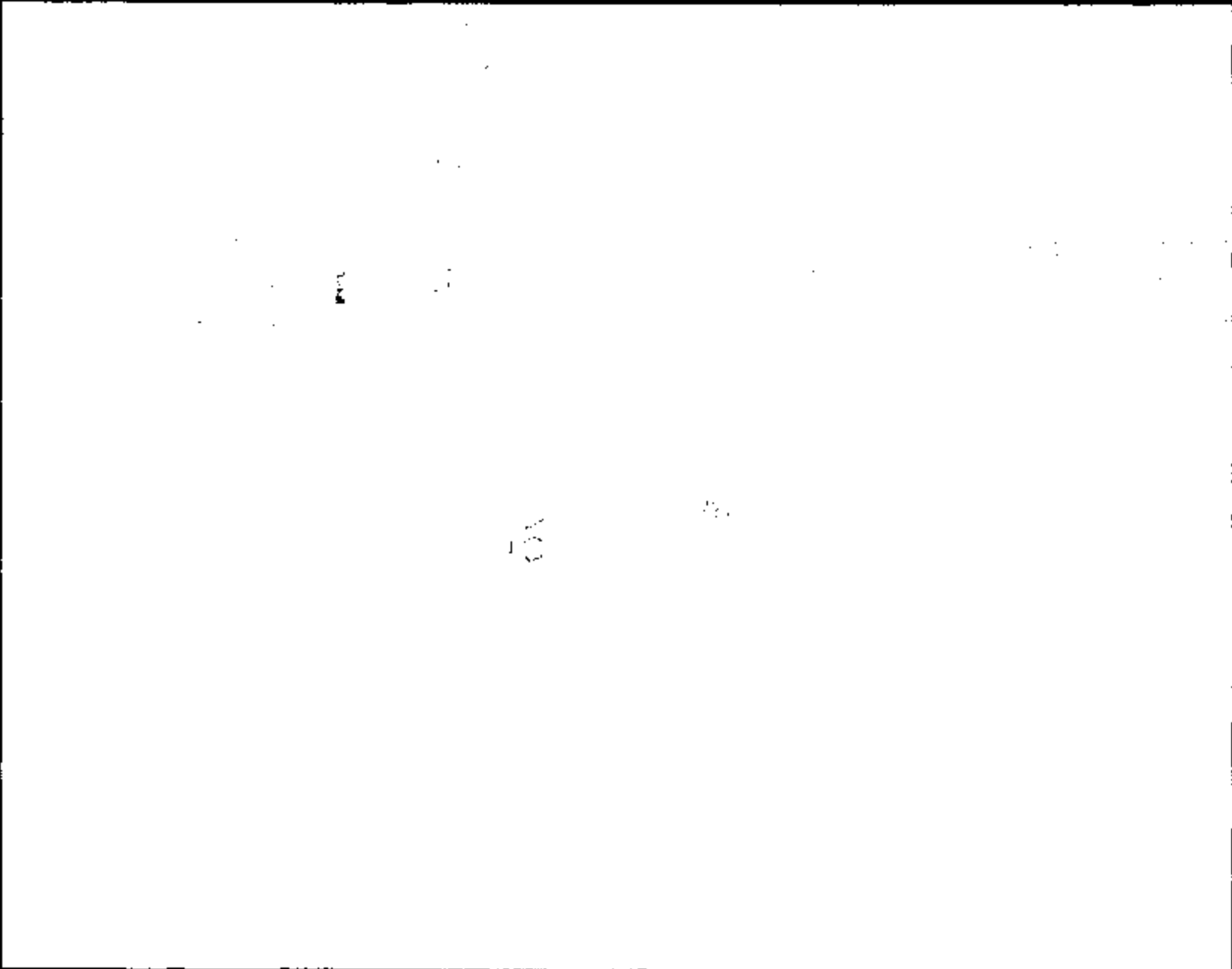
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4599

Name:

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CRIS 0010806



Name :

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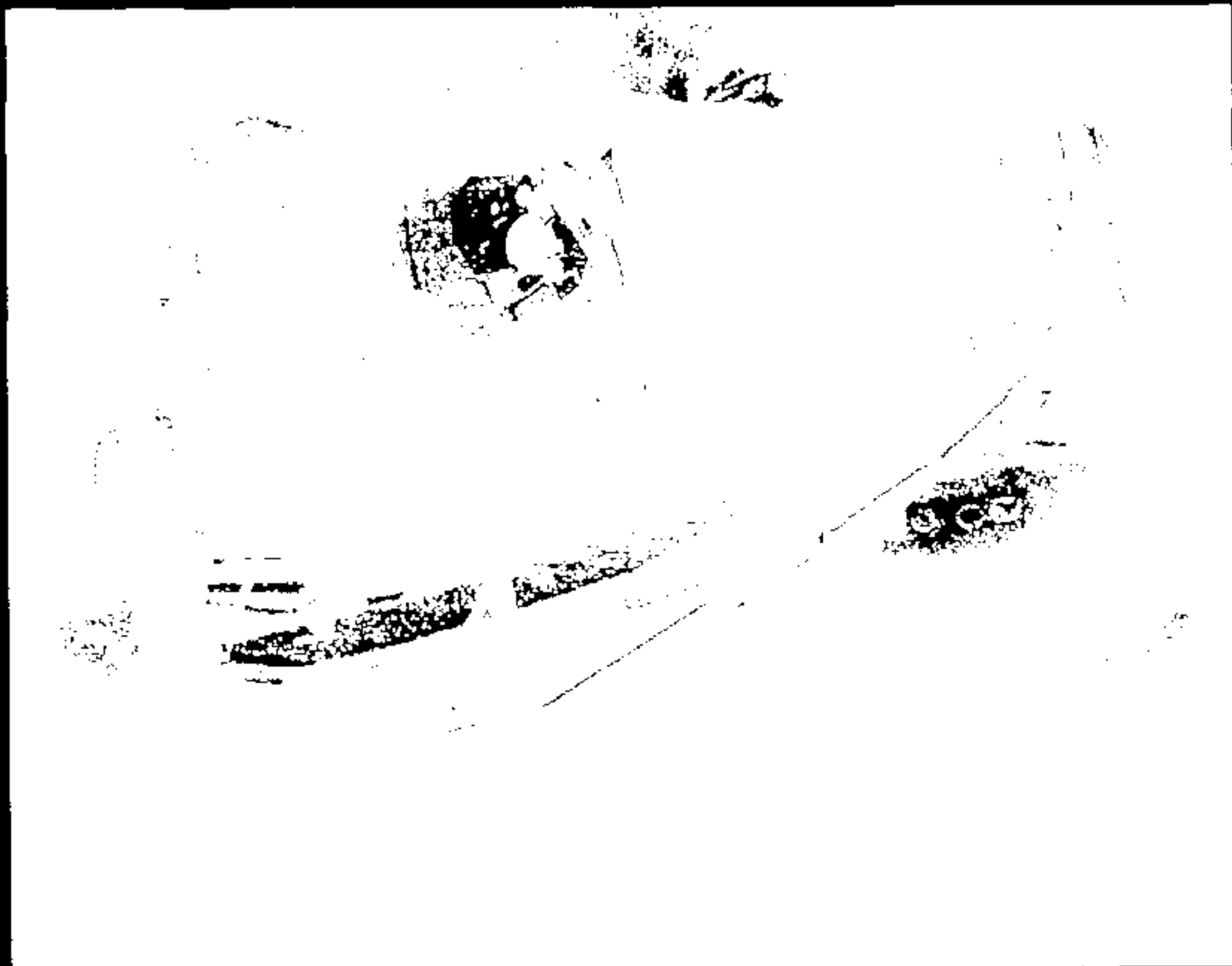
CRTS 0010806

4599  
R/K

Name:

10806043.JPG

CRTS 0010806



Name :

10806044 . JFG

CRTS 0010806



CRTS 0010806

Image 1

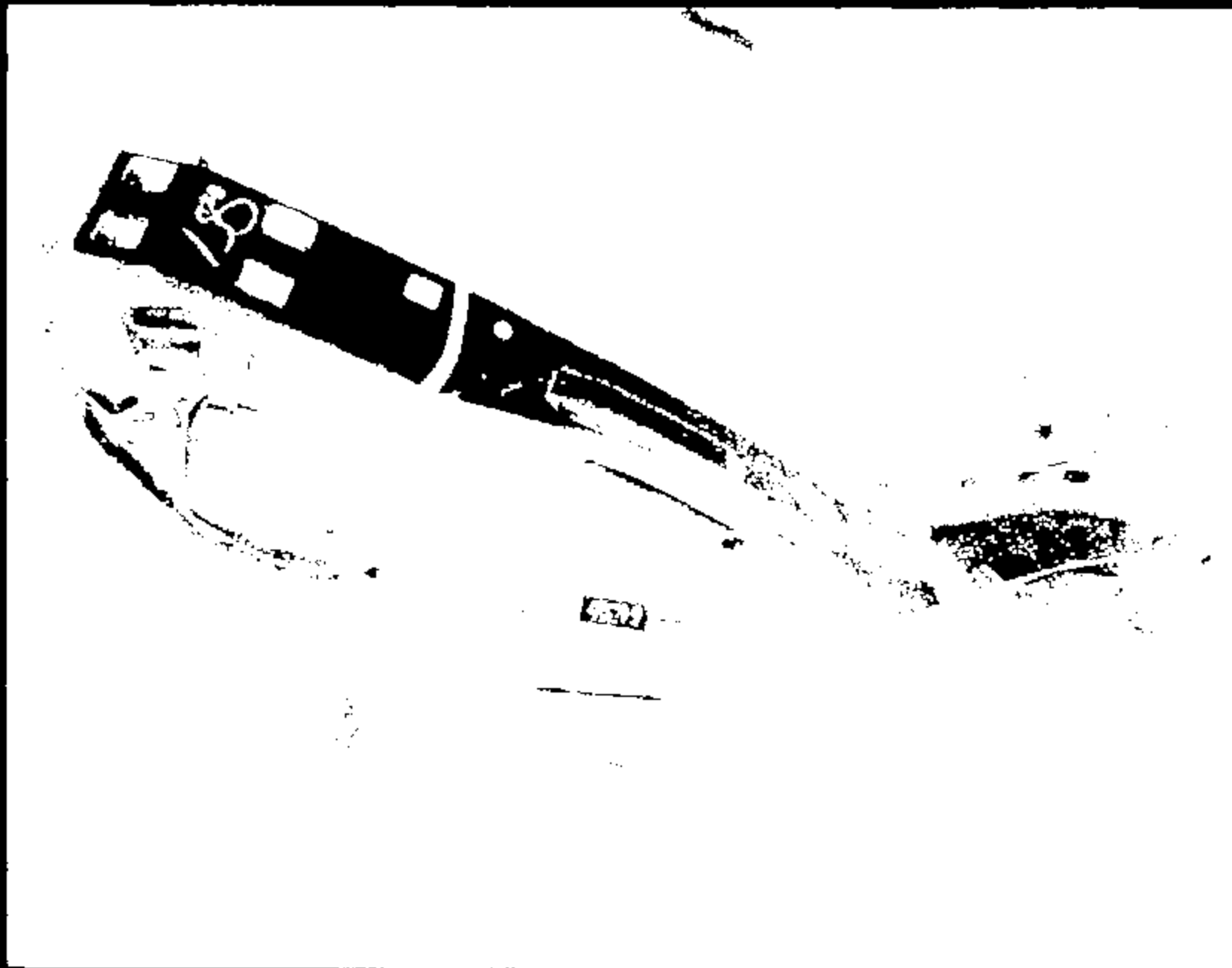
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Name:

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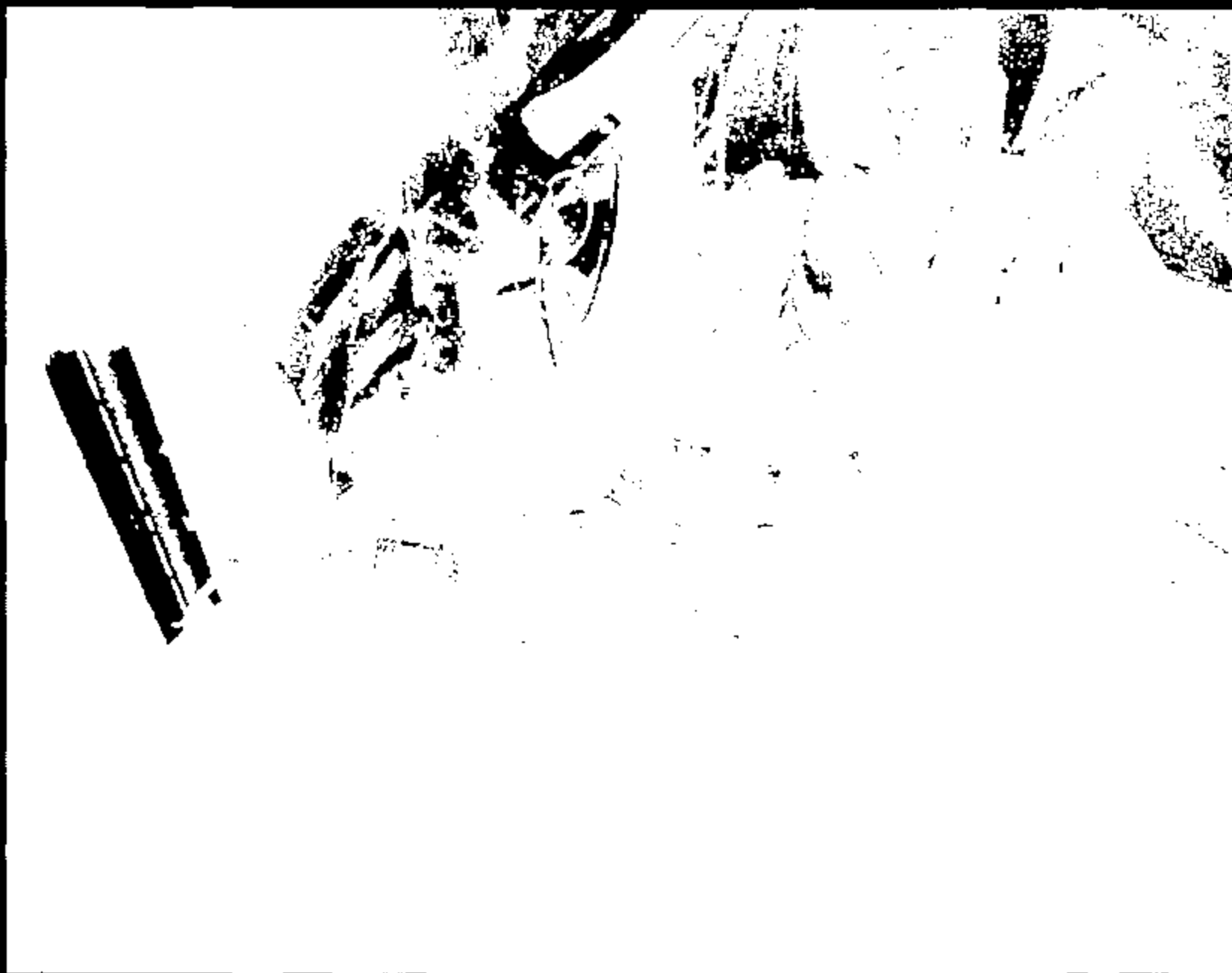


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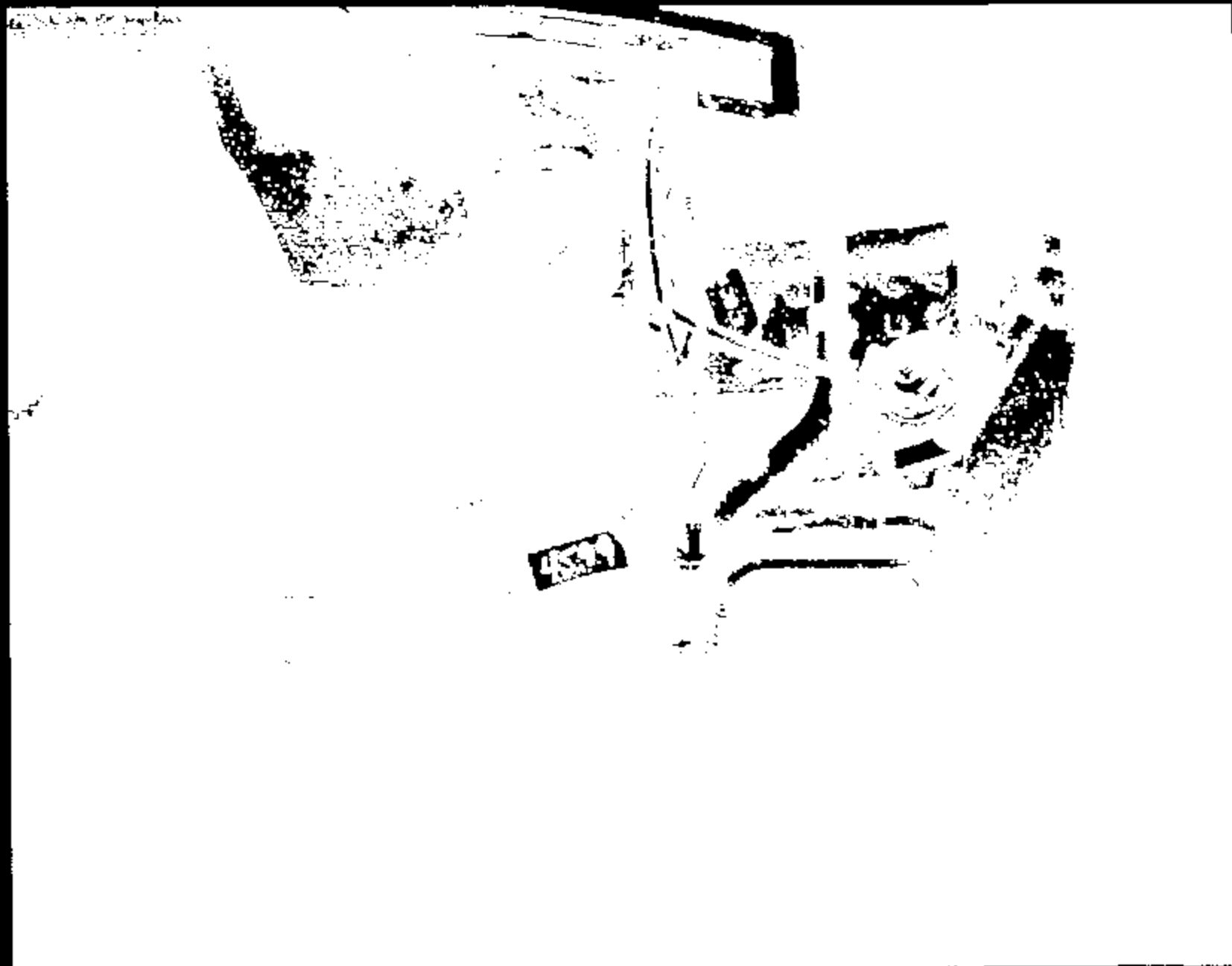




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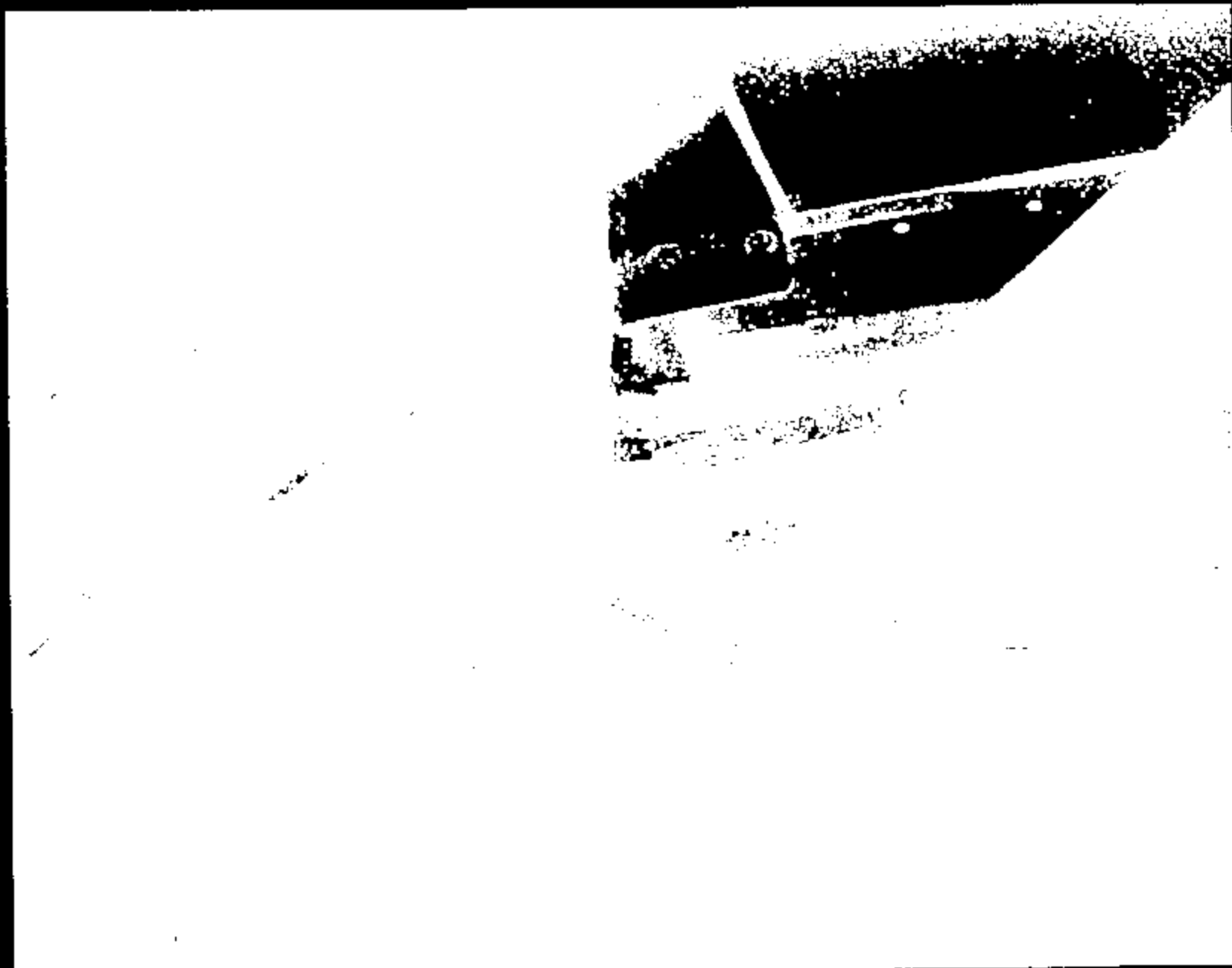
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Name:

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CRTS 0010806



Name :

10806050.JPG

CRTS 0010805



Name:

10806051.JPG

CRTS 0010806



Name:

10806092.JPG

CRTS 0010806



Base:

10806053 .JPG

CRTS 0010806

# TEST AUTHORIZATION

TEST ORDER NUMBER TA4599

TO: J. Kilschick FROM: D. POLSIANES J. Schleichner WEATHERS ARCHER KIRBY JOHNSON W. E. VINTAGE	REQUEST DATE 08-11-97	REQUESTED COMPLETION DATE 08-15-97
	REQUEST NUMBER TA4599	PROBLEM NUMBER N/A
	REQUESTING SECTION AN2215A	

TITLE OF TEST Taurus 45 mph Car-to-Car Frontal Offset Impact			PARTS DUE DATE 08-11-97
TYPE OF TEST <input checked="" type="checkbox"/> VEHICLE <input type="checkbox"/> BENCH <input type="checkbox"/> LABORATORY <input type="checkbox"/> OTHER		VEHICLE NUMBER OR OTHER IDENTIFICATION 311T098	VEHICLE MODEL & YEAR TAURUS 92
ENGINE NO. DISPL. CYCL. 5.0L 2V	TRANSMISSION AX4N	AXLE RATIO N/A	PRODUCT OR ENG. LETTER N/A
TYPE OF FUEL N/A	CONVERTER N/A	IGNITION TIMING N/A	TEST CONDUCTED TO CERTIFY CONTROL ITEM COMPLIANCE WITH GOVERNMENT REGULATIONS? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
CHANGE OIL AND CAPACITY N/A	TIRE SIZE AND PLY RATING N/A	REPORT CATEGORIES <input checked="" type="checkbox"/> ENGINEERING <input checked="" type="checkbox"/> DATA <input checked="" type="checkbox"/> RAW DATA	DISPOSITION OF PARTS Boneyard
VEHICLE TEST WEIGHT FRONT 2266 REAR 1825 TOTAL 4187	TIRE PRESSURE FRONT 30 REAR 30		PROCUREMENT REQUIRED? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO CODE
			WILL REPORT Y/N ROOM ND1252 BLDG 2

1. OBJECT OF TEST: Advanced Restraint Sensor Development

2. TEST PROCEDURE: C88-03

3. NUMBER OF SAMPLES: 1

4. RUNS PER SAMPLE: 0

5. ITEMS TO BE TESTED:  
DESCRIPTION

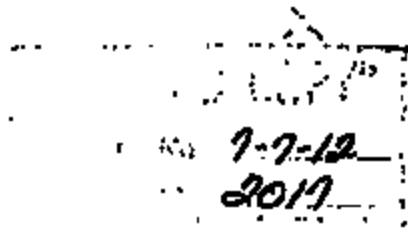
TAURUS SENSOR DEV. PROTOTYPE

PART NOS

1FALP52MTS134263

QUANTITY

( 01 )

  
 7-7-12  
 2017

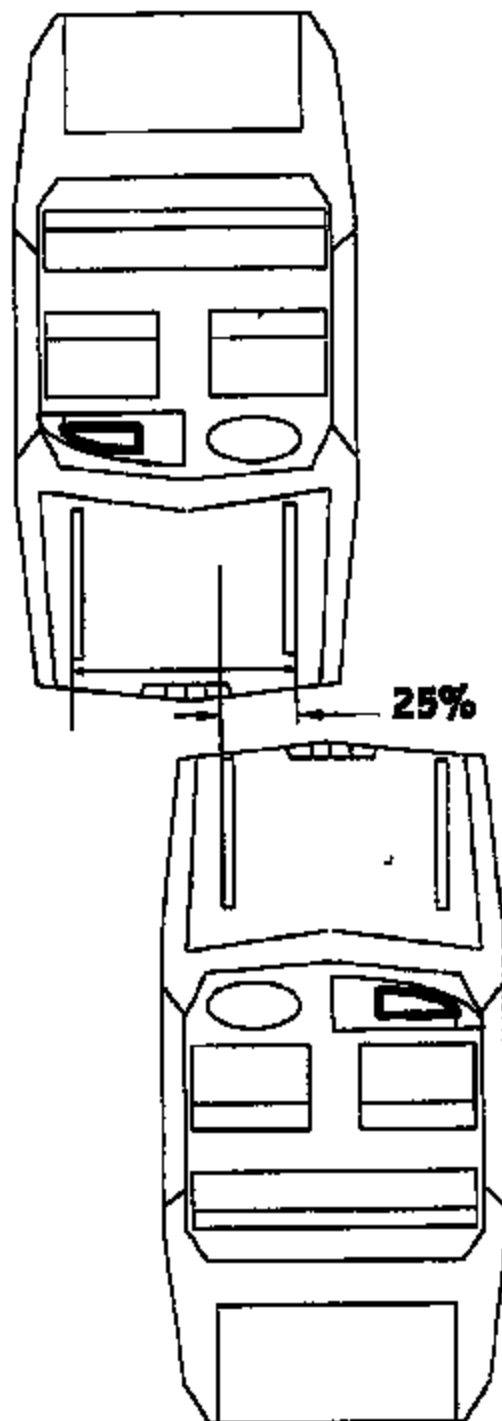
REQUESTING DEPT NO T551	WORK ORDER/TASK XRT39	ISSUED/REQUESTED BY B4116	PHONE 66165	APPROVALS BOLAND	TEST TYPE	RISK	SIGN-OFF DATE
----------------------------	--------------------------	------------------------------	----------------	---------------------	-----------	------	---------------

REQUESTER DO NOT WRITE BELOW THIS LINE

WORK STANDARDS NUMBER	TITLE Taurus 45 mph Car-to-Car Frontal Offset Impact						
MANDATORY				OPTIONAL			
TEST ORDER # TA4599	CATEGORY 4	RESP SECT T457	EST COMP DATE	P80 R	YES/NO/US INIT CRASH	URTY CODE 08-11-97	TEST ORDER DATE
PERFORMING SECT.	HOURS	MATERIAL COST	COMP. COST	PARTS DUE DATE	EST START DATE	EST COMP DATE	STATUS
DESIGN	0	\$	\$				
ENGINEERING	0	\$	\$				
TECHNICAL	0	\$	\$				
		\$	\$				
TOTAL	0	\$	\$				

# Car To Car 25% Offset Crash Test Setup

25% is measured  
from outside of  
structure. (RAIL)





TEST DEFINITION WORKSHEET

KURT L. EWING

16-SEP-97 15:33

TEST ORDER: TA4599

TEST PROCEDURE: CR8-00

CR# 10806

REQUESTER'S COMMENTS:

TEST OBJECTIVE: Advanced Restraint Sensor Development

CUSTOM TEST SETUP:

Align left vehicle fronts such that impact markers coincide.  
Impact test vehicle into stationary secondary vehicle @ 45 mph.

RATED FUEL CAPACITY: N/A  
RATED LUGGAGE LOAD: 200 lb.

OCCUPANT TYPE: Left Front: 5th Hybrid III  
Rgt. Front: 5th Hybrid III

RESTRAINT SYSTEM:	BELT	PYRO BELT	FRONTAL BAG	SIDE BAG
Left Front:	X		X	
Rgt. Front:	X		X	

DUMMY POSITIONING: ST-25. Consult requestor & test engineer for additional instructions.

DRIVER FOOT REST: N

SENSOR SYSTEM: Driver Stage 1: Remote Deploy @ 38 ms  
Driver Stage 2: Remote Deploy @ 400 ms  
Pass. Stage 1: Remote Deploy @ 38 ms  
Pass. Stage 2: Do not deploy.

SEAT POSITION:	Long.	Vert.	Seat Back Angle
Left Front:	Full Fed.	Full Up	Vertical (Full Up)
Rgt. Front:	Full Fed.	Full Up	Vertical (Full Up)

TEST DEFINITION WORKSHEET

ALBERT L. EWING

16-SEP-97 15:33

TEST ORDER: TA4599

TEST PROCEDURE: CRS-00

SEAT PACKAGE CHECK REQUIRED ? YES. Mark design mid H-point location and rocker target for repositioning reference @ barrier.

DIMENSIONAL ANALYSIS: None.

FILM ANALYSIS:

Right & Left Dummy head WRT rocker.  
Rocker WRT ground.

*LATS FROM TARGETING NEED CHANGES*

STILL PHOTO:

Std. Pre & Post Test Photographs  
Close ups of sensor instrumentation on vehicle front and

HIGH SPEED PHOTO:

Onboard:	Over Shoulder:	Left, Right
	D-Ring:	Left, Right
	Retractor:	Left, Right
Offboard:	Overall Views:	Left, Right, Overhead
	Dummy Kinematics:	Left, Right
	B-Pillar Forward:	Left, Right
	A-Pillar Forward:	Overhead

Number Of Copies: 1

Digitized Film: Standard views.

WEIGH UP INSTRUCTIONS:

Curb Weight:	Front-2191	Rear-1163	Total Curb-3293
Test Weight:	See Test Authorization Page 1.		

Do NOT Place Weight: Front Floor  
MAY Remove To Lighten Vehicle: Deck Lid, Rear Lamps, Carpet  
Interior Trim, Exhaust

Max. Added Weight to Engine: 75 lb. Allowed.

Front Test Weight Tolerance:	+10 -0
Rear Test Weight Tolerance:	+15 -0

RIDE HEIGHTS: Load to test weight & level rocker WRT ground.

SECONDARY VEHICLE INFORMATION:

TEST DEFINITION WORKSHEET

KURT L. EWING

16-SEP-97 15:33

TEST ORDER: YA4599

TEST PROCEDURE: CRS-00

Tag # = 306T318

Test Weight: Front= 2090 Rear= 1294 Total= 3392 (lbf.)

Side Height: Align such that front bumper height is same as test vehicle.

SPECIAL BUILD INSTRUCTIONS:

Fabricate Sensor Bracket Hardware as per requestor's instructions.  
Remove All Door Trim Panels, Side Glass and B-pillar trim.  
Mark impact location on vehicle front.

CONTACTS:	NAME	PHONE	PAGER
Requestor:	K. Ewing	24-86185	KEMI (313-660-6991)
	E. Kemnitz	24-81602	EKEM
	D. Bauch	32-23884	DEAU
Std. Coord:	N. Dendel	24-85498	NDSN (313-705-8101)
Supervisor:	M. Jurosek	32-18958	MJUR (313-705-9990)
GTO:	B. Pingston	39-03809	SPIN (313-780-3922)

{x2  
TEST ENGINEERS COMMENTS:  
-----

LAB COMMENTS:  
-----

TEST DEFINITION WORKSHEET

KURT L. EWING

16-SEP-97 15:33

TEST ORDER: TA4599  
\*\*\*\*\*

TEST PROCEDURE: CRS-00  
\*\*\*\*\*

FINAL COMMENTS:  
\*\*\*\*\*

REQUESTERS FINAL COMMENTS:  
\*\*\*\*\*

Billable Department: T552  
Billable Requestor: T. Brynik  
VSCAE is requesting this test on behalf of Department T552.

**SIDE TARGETING**

TEST 10806 T.O. TA4500  
 DATE 9-18-97  
 BY TAT  
 VEH DNT01  
 TARGET/BULLET TARGET

Left side to  
centerline

Right side to  
centerline

BULLET

\_\_\_\_\_ Ground Reference (+ pit CL)

36.2      36.2      Door Side (Scale = 24.0 in.) 66.2      33.1

32.0      32.0      Rocker at Front Brest Bolt 64.0

\_\_\_\_\_ Rocker (for Pitch Correction)

\_\_\_\_\_ Rocker Panel at A-Pillar

32.0      32.0      Rocker Panel at B-pillar 64.0

\_\_\_\_\_ Rocker Panel at C-Pillar

\_\_\_\_\_ Frame Rail at A-Pillar

\_\_\_\_\_ Frame Rail at B-Pillar

\_\_\_\_\_ Steering Wheel or Column

\_\_\_\_\_ A-Pillar at Roofline

\_\_\_\_\_ B-Pillar at Roofline

\_\_\_\_\_ A-Pillar at Beltline

\_\_\_\_\_ B-Pillar at Bottom of Window

\_\_\_\_\_ Vehicle Offset

\_\_\_\_\_ Roof/Bumper Tgts To Pit CL

\_\_\_\_\_ Frame Rail at \_\_\_\_\_

\_\_\_\_\_ Engine

\_\_\_\_\_ CL on Box

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**OVERHEAD TARGETING**

T.O. BULLET  
TAM88

DN-101

(For a left side angle crash, the Roof at A-Pillar Right and Center are targeted, dimensioned (relative to ground) and the Scale, recorded.)

(For a right side angle crash, the Roof at A-Pillar Left and Center are targeted, dimensioned (relative to ground) and the Scale, recorded.)

<u>Left</u>	<u>Center</u>	<u>Right</u>	<u>Scale</u>	
_____	_____	_____	_____	Ground Reference
_____	_____	_____	_____	Top of Barrier
<u>52.4</u>	_____	<u>52.8</u>	<u>36.2</u>	Roof at A-Pillar
<u>54.7</u>	_____	<u>54.9</u>	<u>34.0</u>	Roof at B-Pillar
_____	_____	_____	_____	Roof at C-Pillar
_____	_____	_____	_____	B-Pillar @ Beltline
_____	_____	_____	_____	Engine
_____	_____	_____	_____	Radiator Support
_____	_____	_____	_____	Hood (for offset)
_____	_____	_____	_____	
_____	_____	_____	_____	

**OTHER MEASUREMENTS**

- \_\_\_\_\_ Driver Dummy Head (Left side)
- \_\_\_\_\_ Driver Dummy Shoulder (Left side)
- \_\_\_\_\_ Passenger Dummy Head (Right side)
- \_\_\_\_\_ Passenger Dummy Shoulder (Right side)

**GENERIC TARGETING  
UNDERCARRIAGE TARGETING**

TEST \_\_\_\_\_ T.O. TA4599  
 DATE \_\_\_\_\_  
 BY \_\_\_\_\_  
 VEH. DN101  
 TARGET/BULLET \_\_\_\_\_ TARGET \_\_\_\_\_

<u>Reference to Ground</u>	<u>Scale</u>	
_____	_____	*Steering Gear
_____	_____	*Front Bumper
_____	_____	Radiator Support
_____	_____	*No. 1 Crossmember Front
_____	_____	*No. 1 Crossmember Rear
_____	_____	*Engine Oil Pan Front
_____	_____	*Engine Oil Pan Rear
_____	_____	*Transfer/Transmission
_____	_____	*Torque Box Front
_____	_____	No. 2 Crossmember
_____	_____	*Frame Rail Front
_____	_____	No. 3 Crossmember
_____	_____	Floor Pan under cabin
_____	_____	*Frame Rail at B-Pillar
_____	_____	Torque Box Rear
_____	_____	Differential
_____	_____	Fuel Tank Midship Front
_____	_____	Fuel Tank Midship Rear
_____	_____	Fuel Tank Aft of Axle Front
_____	_____	Fuel Tank Aft of Axle Rear
_____	_____	Frame Rail Rear
_____	_____	Crossmember Rear
_____	_____	Rear Bumper
_____	_____	Bumper to Ground

(\* = usually targeted on front 90 & 30 degree Imps)

SIDE TARGETING

TARGET

R,  
33.3  
S.2

TAURUS  
8-20-97  
JB

Left side to  
centerline

Right side to  
centerline

36.3

36.3

Ground Reference (+ pit C/L)

Door Side (Scale = 24.0 in.) 66.0

Rocker at Front Seat Bolt

Rocker (for Pitch Correction)

Rocker Panel at A-Pillar

32.0

32.0

Rocker Panel at B-pillar 64.0

Rocker Panel at C-Pillar

Frame Rail at A-Pillar

Frame Rail at B-Pillar

Frame Rail at \_\_\_\_\_

A-Pillar at Roofline

B-Pillar at Roofline

A-Pillar at Beltline

B-Pillar at Bottom of Window

36.0"

Vehicle Offset

Roof/Bumper Tgts To Pit C/L

Steering Wheel or Column

Engine

C/L on Box



28 TT  
**TARGET**  
**THURS**

8-20-49

**OVERHEAD TARGETING**

(For a left side angle crash, the Roof at A-pillar Right and Center are targeted, dimensioned (relative to ground) and the Scale recorded. For a right side angle crash, the Roof at A-pillar Left and Center are targeted, dimensioned, (relative to ground) and the Scale recorded.)

<u>Left</u>	<u>Center</u>	<u>Right</u>	<u>Scale</u>	
_____	_____	_____	_____	Ground Reference
_____	_____	_____	_____	Top of Barrier
<u>64.0</u>	_____	<u>53.8</u>	<u>36.5</u>	Roof at A-Pillar
<u>56.1</u>	_____	<u>56.1</u>	<u>34.8</u>	Roof at B-Pillar
_____	_____	_____	_____	Roof at C-Pillar
_____	_____	_____	_____	B-Pillar & Beltline
_____	_____	_____	_____	Engine
_____	_____	_____	_____	Radiator Support
_____	_____	_____	_____	Hood (for offset)
_____	_____	_____	_____	
_____	_____	_____	_____	

**OTHER MEASUREMENTS**

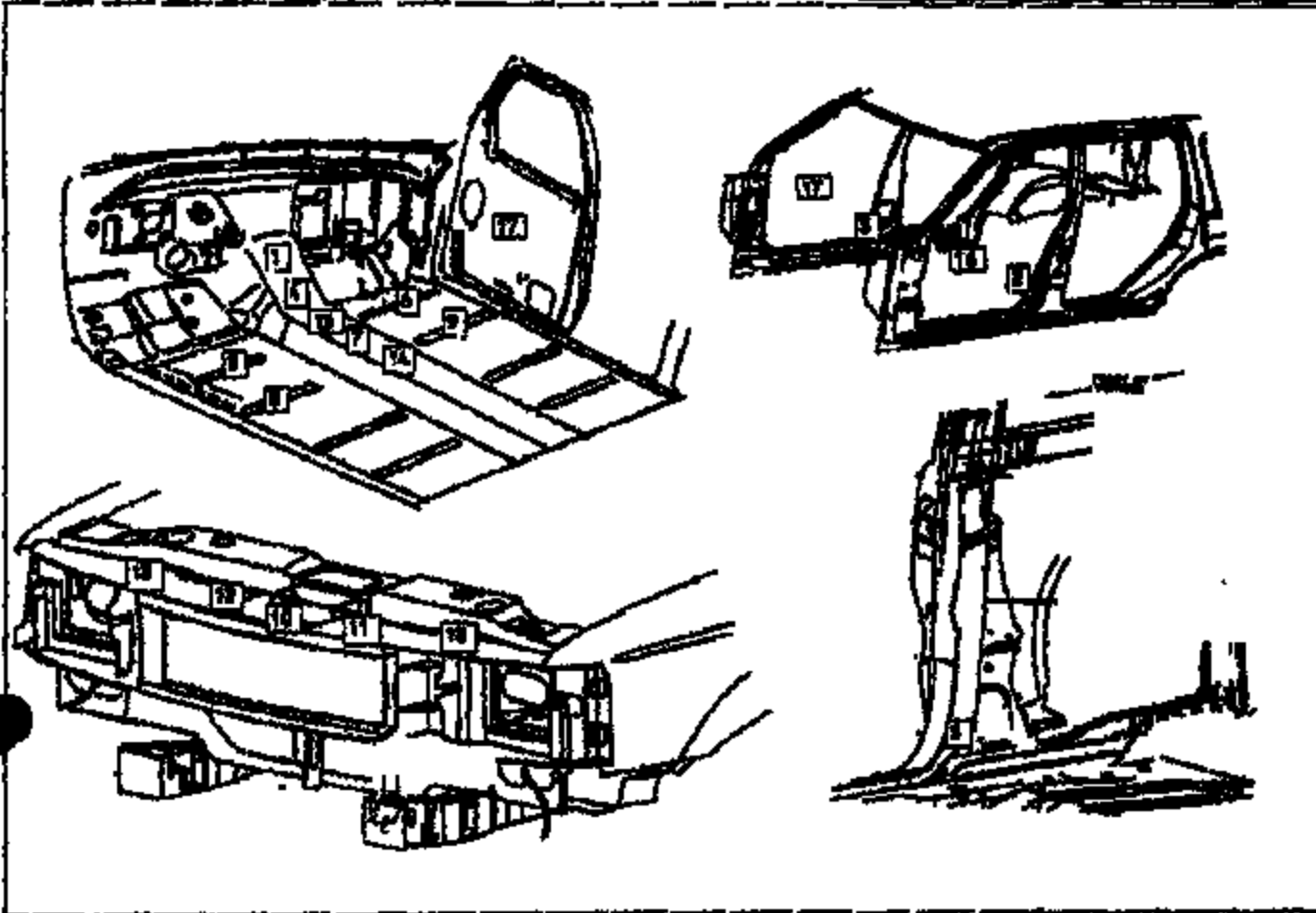
_____	Bumper to Ground
_____	Driver Dummy Head (Left side)
_____	Driver Dummy Shoulder (Left side)
_____	Passenger Dummy Head (Right side)
_____	Passenger Dummy Shoulder (Right side)

TA4599

Program: Crash Severity  
 Vehicle ID: 3117888  
 Build level: WH  
 Test Mode: 48mph VTV

**SENSOR MAP**

Engineer: Erich Kernitz  
 Phone #: 24-81802  
 Date: 8/12/97  
 Time: 12:12 PM



Location Name	Supplier	Output	Nominal (+)	Max/min	Serial #
1 FRT_FLOOR_PAN_B_C/L (LHS RCH Location)	_RCH	SENSOR	volts		
		Pan Bq Squ/b R2	0	5-7	WR07
		Pan Bq Squ/b R1	0	5-7	WR07
		Dr Bq Squ/b R2	0	5-7	WR07
		Dr Bq Squ/b R1	0	5-7	WR07
		Ground			
		Wakeup	6		
1 FRT_FLOOR_PAN_B_C/L	_RCH	sensor	TRIAK	On ACC RCH	
2 L/S-PLA_LOWER_UPPER	_RH	sensor	TRIAK		
3 R/S-PLA_LOWER_UPPER	_RH	sensor	TRIAK		
4 FRT_FLOOR_PAN_B_C/L (RHS RCH Location)	RCH	SENSOR	volts		
		Power	12		
		SW			
		U31	0	0-2A	8L001
		U31	0	0-2A	8L001
		U32	0	0-2A	8L001
		U32	0	0-2A	8L001

Locator Name	Supplier	Output	Sensor Channels only		
			Normal (+)	Max/Min	Signal #
4 RTY_FLOOR_PAN_R_C/L	_BOS	accel	TRIAK	On Delco ECM	
5 FLA_WDR_R_L/F_SEAT_C/L	_SH	accel	TRIAK	Rear face of left front seat cross member	
6 FLA_WDR_R_R/F_SEAT_C/L	_SH	accel	TRIAK	Rear face of right front seat cross member	
7 C/L_TIL_BETWEEN_F/SEATS	_SH	accel	TRIAK	Dist to Bred 10H	
7 C/L_TIL_BETWEEN_F/SEATS	Frank	ECM	volts		
			Power	12	
			Trigger		
			Through 1	5	0-5
			Through 2	5	0-5
					80001
					80001
8 RL_FLR_WDR_R_L/F_SEAT_C/L	_SH	accel	TRIAK	Front of left front seat rear cross member	
9 RL_FLR_WDR_R_R/F_SEAT_C/L	_SH	accel	TRIAK	Front of right front seat rear cross member	
10 C/RND UP FRT	_ACD	ACD DSM		Crash Severity Sensor C/L, forward of hood latch bracket on mounting plate	
10 C/RND UP FRT	_SH	accel	TRIAK	C/L, forward of hood latch bracket, next to CSA sensor on mounting plate	
11 L/C/RND UP FRT	_SH	accel	TRIAK	Left side of C/L CSA sensor, location 90, underside of BOR	
12 R/C/RND UP FRT	_SH	accel	TRIAK	Right side of C/L CSA sensor, location 10, underside of BOR	
13 R/RND UP FRT	_DEL	Delco DSM		Crash severity Sensor Delco on top side of BOR	
13 R/RND UP FRT	_SH	accel	TRIAK	Rear CSA Sensor	
14 C/L_TIL_SH	Frank	ECM	volts		
			AKL	0	4
			FAB	0.00	3.5 - 5
			FAP	0.00	3.5 - 5
			PTD	0.00	3.5 - 5
			PTP	0.00	3.5 - 5
14 C/L_TIL_SH	_SH	accel	TRIAK	Near Dash ECM	
15 C/L_TIL_RND_OF_F/SEATS	_SH	accel	TRIAK	Near Tablets ECM on sheet metal	
15 C/L_TIL_RND_OF_F/SEATS	Yakata	ECM	volts		
			Power	12	0-13
			Unbelted	1.20	0-5
			Belted	1.20	0-5
					87003
					87003
16 L/F_DOOR_R_BELTLINE_HTD	_SH	accel	TRIAK		
17 R/F_DOOR_R_BELTLINE_HTD	_SH	accel	TRIAK		
18 L/RND UP FRT	_DEL	Delco DSM		Crash Severity Sensor Delco on top side of BOR	
18 L/RND UP FRT	_SH	accel	TRIAK	Near CSA Sensor	

DUMMY POSITIONING MEASUREMENTS

5% Dummies. Seat Full  
Forward Full Down!

Test Order No.

TA4590

Crash No.

10806

Target/Bullet

TARGET BULLET

Dummy Type

50HB

Foot Rest

Yes/No

SNP 4-20-98

MEASUREMENT DESCRIPTIONS WRT FRONT ROCKER TARGET		TEST DRIVER		TEST PASSENGER	
		RANGE	Actual	RANGE	Actual
Head (Inches)	Long	8.5	8.8	7.8	8.1
	Vert	34	34.1	35.4	35.7
	Lat	14.4	14.2	14.4	14.9
Shoulder (Inches)	Long	/	/	/	/
	Vert	/	/	/	/
	Lat	/	/	/	/
H-Point (Inches)	Long	3.5	4.1	5.0	4.2
	Vert	12.1	12.1	12.9	12.8
	Lat	12.0	11.5	12	12.9
Outboard Knee Bolt (Inches)	Long	-9.8	-9.6	-8.3	-9.6
	Vert	15.2	15.1	15.2	15.6
	Lat	12.5	11.8	12.6	13

MEASUREMENT DESCRIPTIONS		DRIVER		PASSENGER	
		RANGE	Actual	RANGE	Actual
Leg to Instrument Panel - Left	(Inches)	1.7	2	1.3	1.8
Leg to Instrument Panel - Right	(Inches)	1.2	1.5	1.5	1.8
Rocker Target to Ground - Front	(Inches)	7.2	7.0	7.4	7.2
Rocker Target to Ground - Rear	(Inches)	7.5	7.3	7.8	7.4
Nose to Steering Wheel	(Inches)	9.0	8.8		
Nose to Instrument Panel	(Inches)			15.2	15.8
Torso to Instrument Panel	(Inches)			12.5	13.5
Torso to Steering Wheel	(Inches)	3.1	3.0		
Top of Legs to Steering Wheel	(Inches)	4.5	4.8		
Knee Spread	(Inches)	8.2	7.9	7.8	7.5
Bumper Target to Ground	(Inches)	-	-	-	-
Head Angle	(degrees)	.5	.5	.5	.3
Pelvic Angle	(degrees)	21.3	21.3	23.7	23
Neck Bracket Angle	(degrees)	0	0	0	0
Rocking Angle	(degrees)	.2	.3	.4	.5
Seat Back Angle (ON TRIN)	(degrees)	20.3	19.6	20.6	20

STEERING COL ANGLE = 22.2°

DUMMY MEASUREMENT REPORT  
CRASH BARRIER

IN NUMBER 10806  
TEST ORDER NUMBER TA4599

DUMMY POSITION LEFT  
DUMMY ABBREV 50H3

FRONT

ABSOLUTE MEASUREMENTS (INCH)	MEASUREMENT
LEG (HYB II) / KNEE (HYB III) TO INST PANEL LEFT	2.00
LEG (HYB II) / KNEE (HYB III) TO INST PANEL RIGHT	1.50
ROCKER TARGETS TO GROUND FRONT	7.00
ROCKER TARGETS TO GROUND REAR	7.30
NOSE TO STEERING WHEEL	8.80
NOSE TO INSTRUMENT PANEL	
INSTRUMENT PANEL TO TORSO	
STEERING WHEEL TO TORSO	3.00
STEERING WHEEL TOP LEGS	4.80
KNEE SPREAD OS-OS (HYB II) / CL-CL (HYB III)	7.90
SEAT BACK ANGLE	19.60
PELVIC ANGLE	21.30
HEAD ANGLE	0.50
ROCKER ANGLE	0.30
NECK BRACKET ANGLE	0.00
BUMPER TARGET TO GROUND	

RELATIVE MEASUREMENTS (INCH)	WRT FRT RKR TGT
HEAD LAT	14.20
HEAD VERT	34.10
HEAD LONG	8.80

SHOULDER LAT  
SHOULDER VERT  
SHOULDER LONG

H-POINT LAT	11.50
H-POINT VERT	12.10
H-POINT LONG	4.10

O/S KNEE BOLT LAT	12.50
O/S KNEE BOLT VERT	15.20
O/S KNEE BOLT LONG	-9.80

DUMMY MEASUREMENT REPORT  
CRASH BARRIER

RUN NUMBER 10806  
TEST ORDER NUMBER TR4599

DUMMY POSITION RIGHT FRONT  
DUMMY ABBREV 50H3

ABSOLUTE MEASUREMENTS (INCH)	MEASUREMENT
LEG (HYB II) / KNEE (HYB III) TO INST PANEL LEFT	1.80
LEG (HYB II) / KNEE (HYB III) TO INST PANEL RIGHT	1.80
ROCKER TARGETS TO GROUND FRONT	7.20
ROCKER TARGETS TO GROUND REAR	7.40
NOSE TO STEERING WHEEL	
NOSE TO INSTRUMENT PANEL	15.80
INSTRUMENT PANEL TO TORSO	13.50
STEERING WHEEL TO TORSO	
STEERING WHEEL TOP LEGS	
KNEE SPREAD OS-OS (HYB II) / CL-CL (HYB III)	7.50
SEAT BACK ANGLE	20.00
PELVIC ANGLE	23.00
HEAD ANGLE	0.30
ROCKER ANGLE	0.50
NECK BRACKET ANGLE	0.00
BUMPER TARGET TO GROUND	

RELATIVE MEASUREMENTS (INCH)	WRT FRT RKR TGT
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HEAD LAT	14.90
HEAD VERT	35.70
HEAD LONG	8.10

SHOULDER LAT  
SHOULDER VERT  
SHOULDER LONG

H-POINT LAT	12.90
H-POINT VERT	12.80
H-POINT LONG	4.20

O/S KNEE BOLT LAT	13.00
O/S KNEE BOLT VERT	15.60
O/S KNEE BOLT LONG	-9.60