

• EAO3-010

Ford

10/22/03.

• Attachment F

Book 21 of 24



**FINAL TEST REPORT**

**CONFIDENTIAL**

**Global Test Operations  
Advanced Vehicle Technology**

TEST COPY  
Date No. 7-7-12  
2017

Test Order No. T-44570  
Work Task W. O. No. XRT39  
Test Date 8/13/97  
Date Reported 10/31/97  
Sheet 1 of 89

**TO:** J. Boland

**SUBJECT:** Crash Test 10797 (90° Front 40% Offset Left Side Barrier Impact at 9.4 ± 0.4 mph, 15.1 ± 0.6 km/h) - 199X Taurus (OH-101) 4-Door Sedan

**REQUESTED BY:** Vehicle Safety and CAE 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. Ewing  
Section Supervisor  
Operations Engineering Section  
10/31/97

**VEHICLE DATA:**

**Make and Model** 199X Taurus (DN-101) 4-Door Sedan  
**ID Numbers** 1PALP5387TA100152, 318-T-591  
**Power Train** 3.0L, EFI, Automatic (AX4E) 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/27.0° Rear  
 of Vertical  
 Head Restraints/Position: Adjustable/Down  
 Lumbar Support/Position: 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: 2294 lb (1041 kg)  
 Rear: 1563 lb (710 kg)  
 Total: 3859 lb (1750 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 Thatcham fixture was attached to the normal fixed barrier face and aligned to contact 40% of the front of the test vehicle left of its longitudinal centerline to the left (driver) side.

**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 10797001 through 10797056.

**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.

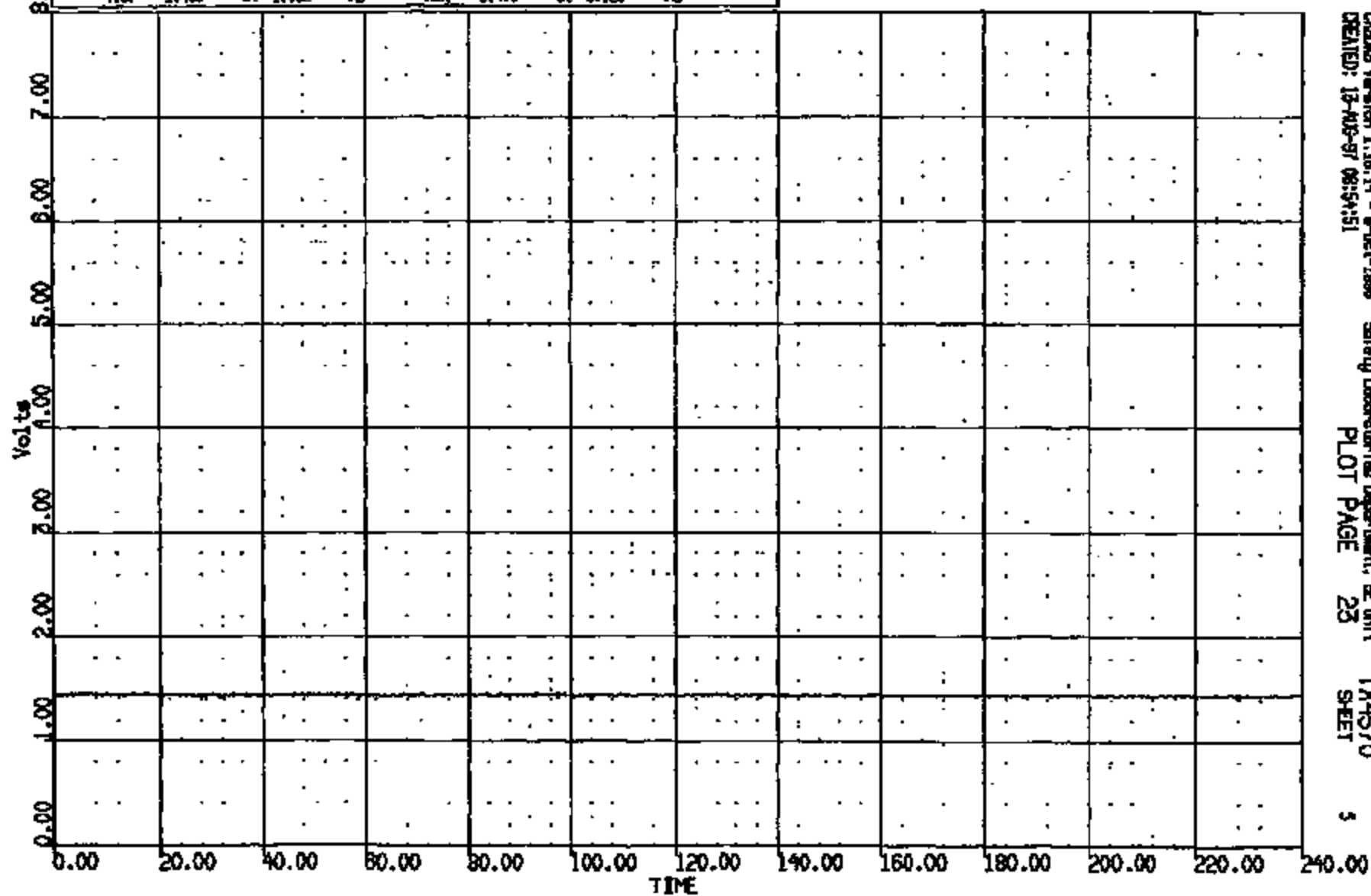
Static displacements of various body points obtained by Dimensional Analysis are included in this report.

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

CR R: 10797 TO: TA4570 DATE: 970813 08:50:55  
188X DN-101

(1) CR107977 FRTFLOR PAN @ C/L ACID 50001-1 4000C  
MAX = 1.40 at 17.52 NS MIN = 1.406 at 97.28 NS

AXIS 1



CRIS Version 1.16.14 - 8-Dec-1995  
CREATED: 13-AUG-97 08:54:51

Safety Laboratory Department, E Unit  
PLOT PAGE 23

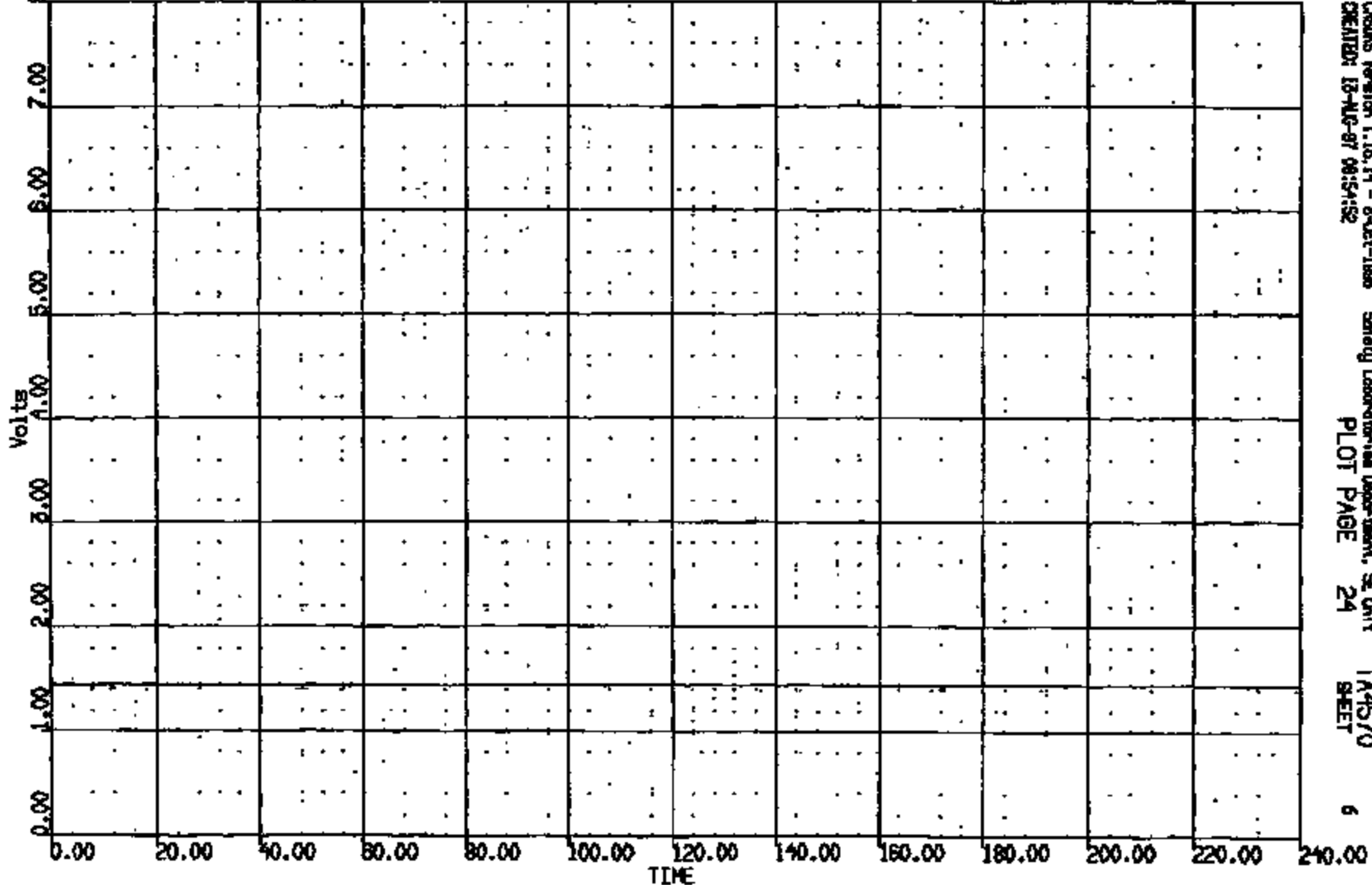
TA4570  
SHEET

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CRIS 0010797

CR R: 10797 TO: TA4570 DATE: 870813 08:30:55  
198X DN-101

(2) CR107971 FRUFLOOR PHN @ C/L A/D 50001-2 4000  
MAX = 1.450 at 9.200 MS MIN = 1.406 at 172.5 MS **AXIS 1**



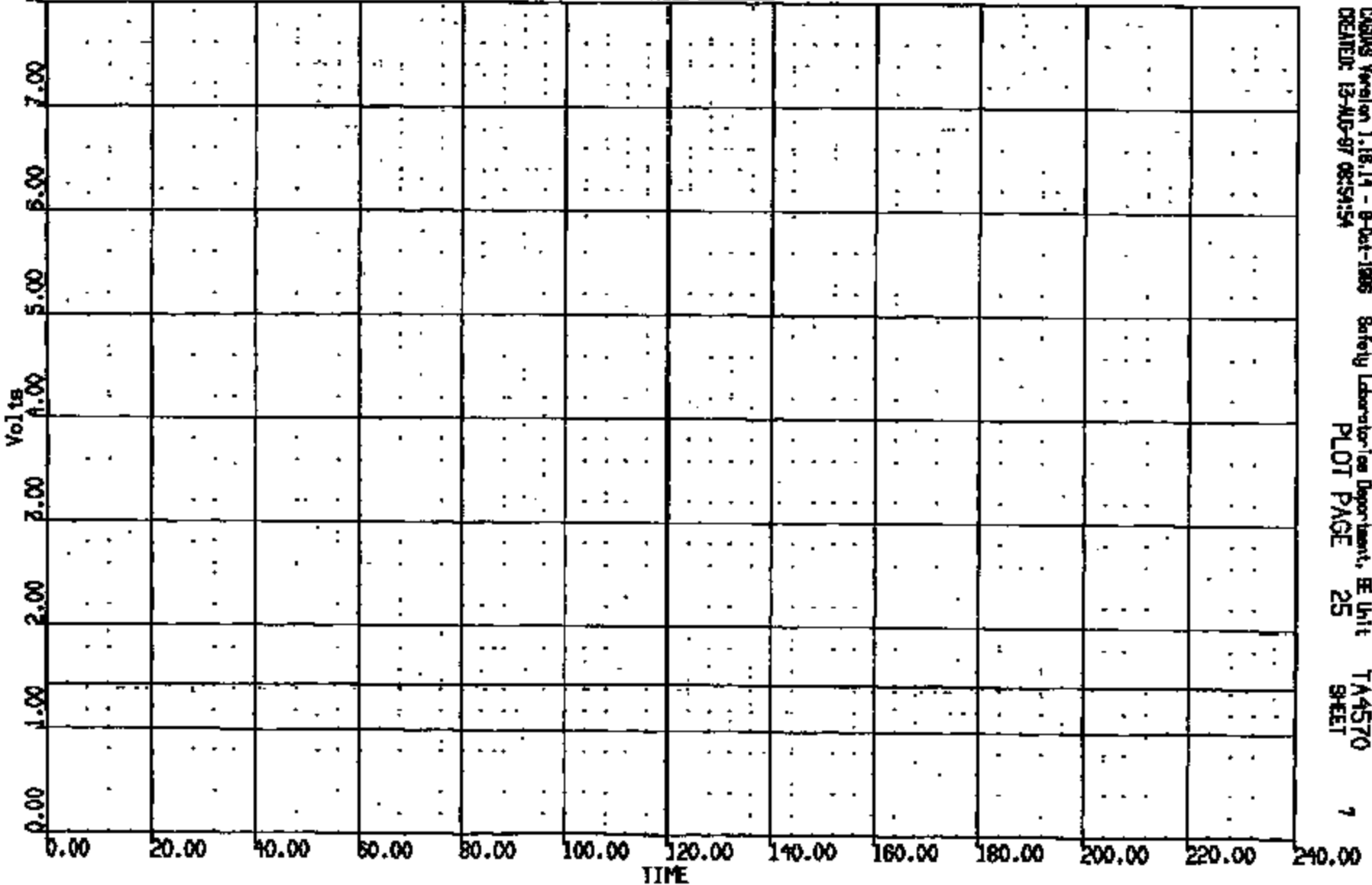
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CREATED: 13-AUG-87 08:54:52 PLOT PAGE 24 SHEET TA4570

CRIS 0010797

CR N: 10797 TO: TA4570 DATE: 970815 08:30:55  
199X DN-101

(3) CR10797 FRIFLOOR PAN @ C/L ACD SMOI-3 400C  
MAX = 1.450 at 17.36 MS MIN = 1.426 at 23.04 MS

AXIS 1



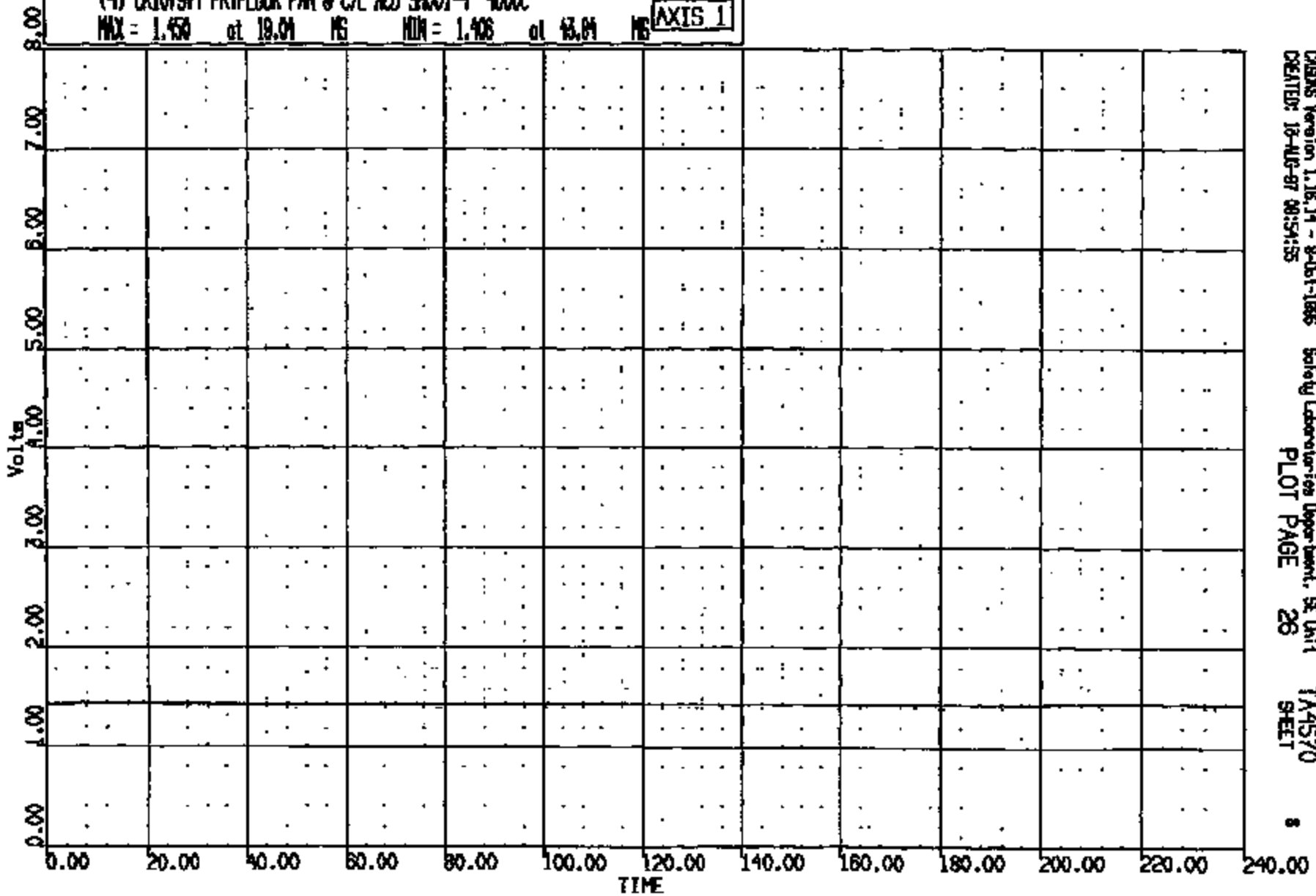
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CRIS 0010797



CR R: 10797 TD: TA4570 DATE: 970813 08:30:55  
199X DN-101

(4) CR10797T FRIFLOOR PAN @ CAL. ACID SMO-4 4000C  
MAX = 1.450 at 19.04 MS MIN = 1.408 at 13.04 MS **AXIS 1**



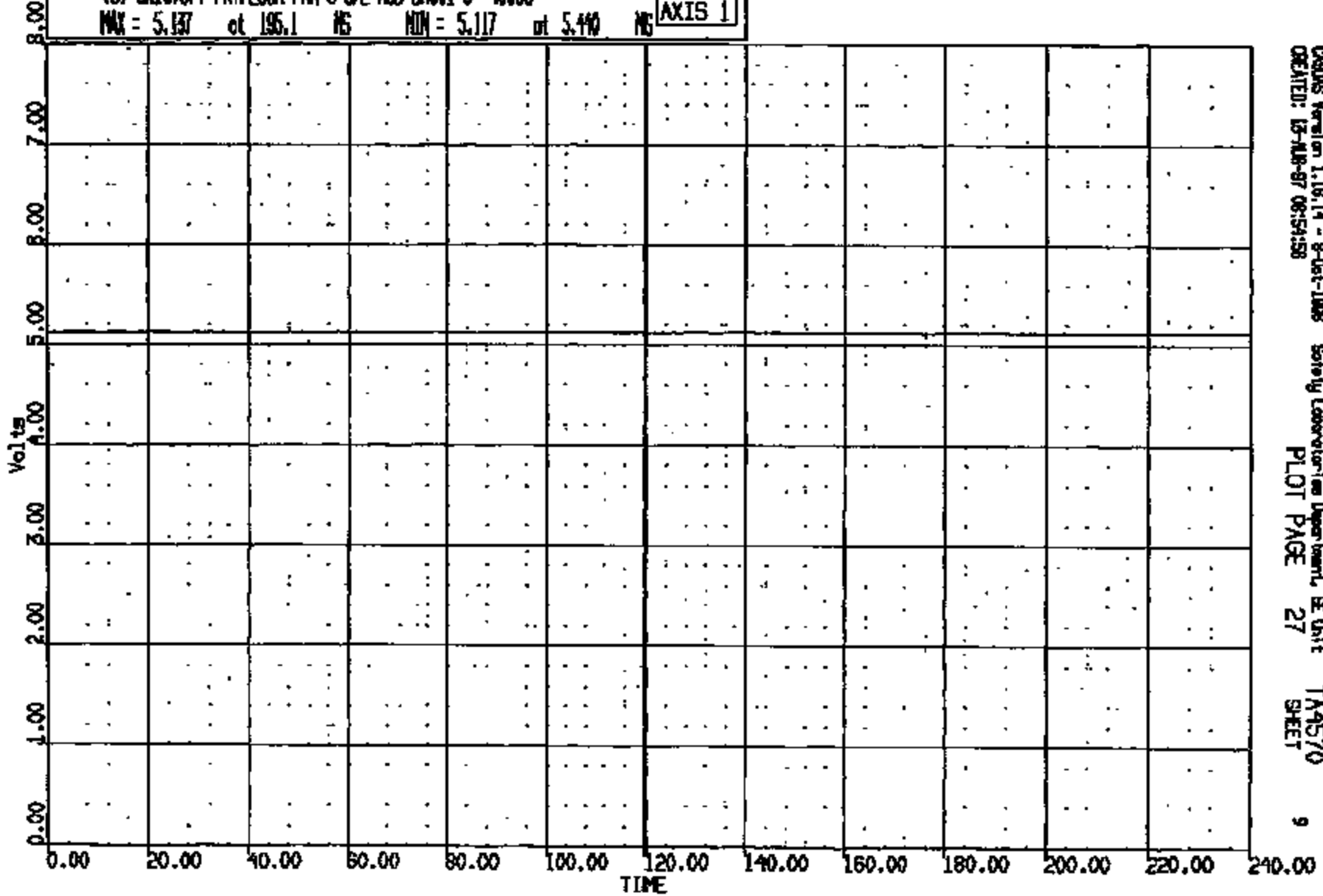
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SHEET 8

CRTS 0010797

CR R: 10797 TO: TA4570 DATE: 970815 08:30:55  
199X DN-101

(S) CR10797 FRTFLOOR PAN @ CAL. AD. 9N001-8 4000C  
MAX = 5.137 at 195.1 MS MIN = 5.117 at 5.440 MS

AXIS 1

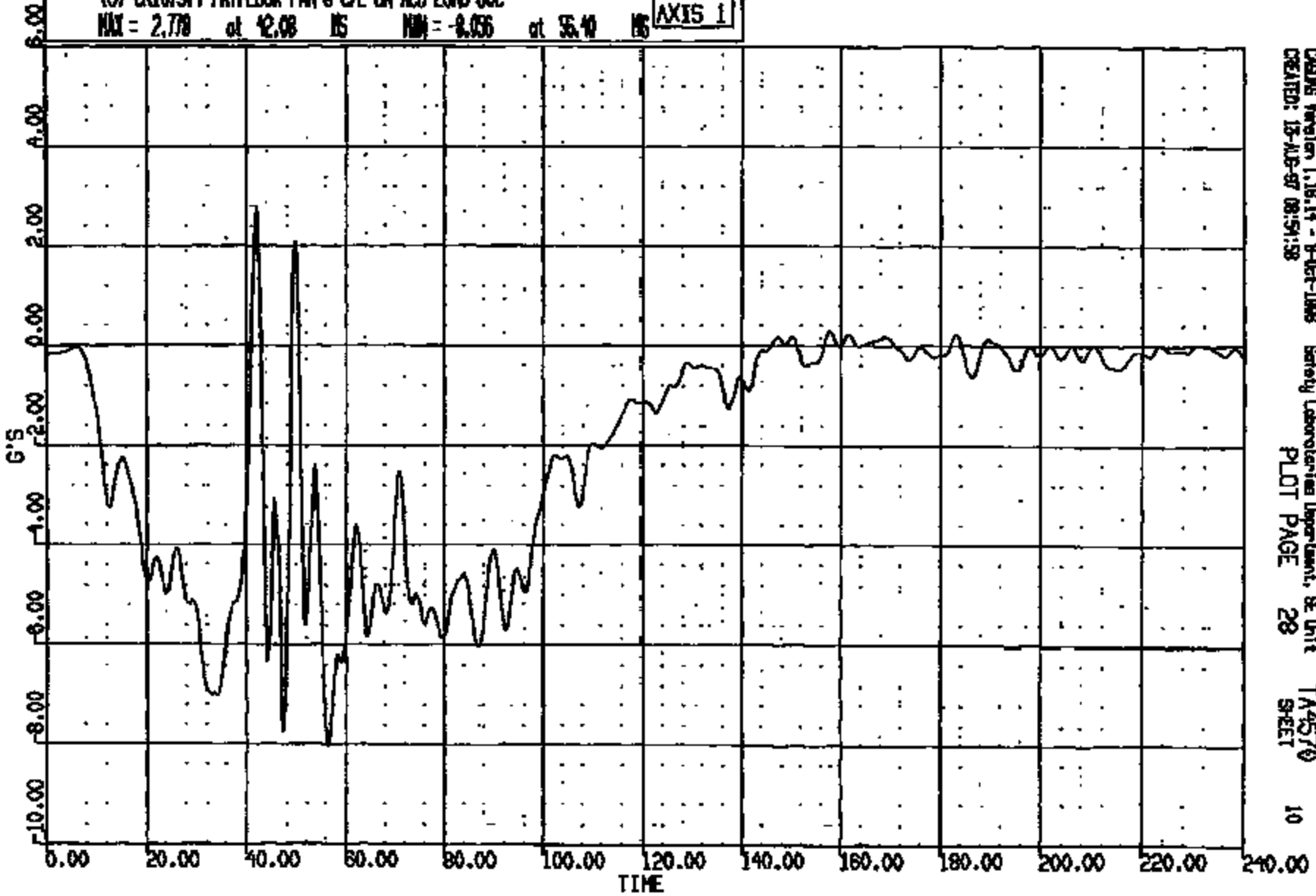


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CRTS 0010797

CR #: 10787 TO: TA4570 DATE: 870815 08:30:58  
100X DN-101

(6) CRISOXYL FRTFLOR PAN @ CAL ON ACD LONG 60C  
MAX = 2.778 at 42.08 MS MIN = -8.056 at 55.40 MS **AXIS 1**

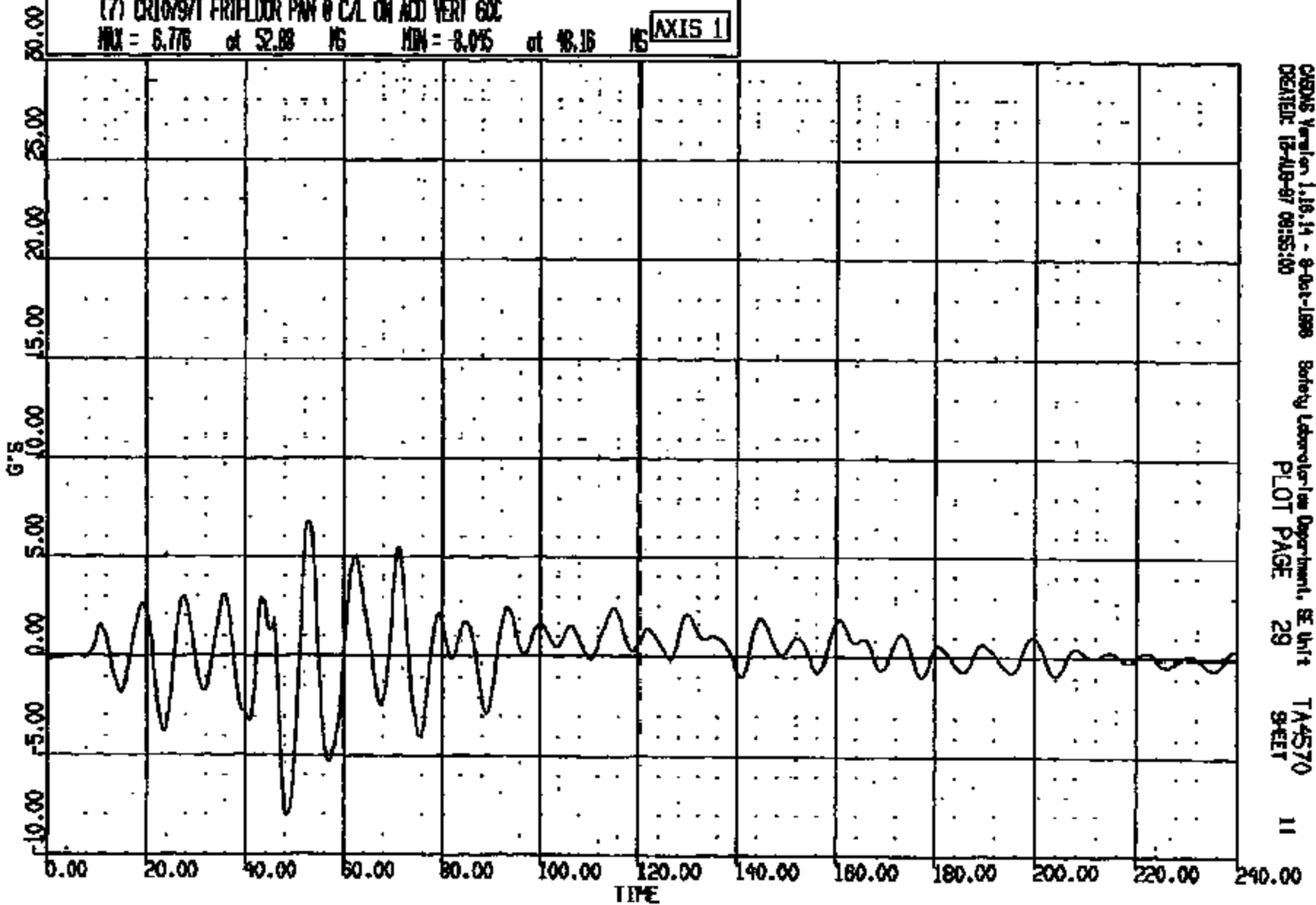


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CRIS 0010797

CR R: 10797 TO: TA4570 DATE: 970815 08:20:55  
199X DN-101

(7) CR10797T FRIFLOOR PAN @ CAL ON ACC VERT 60C  
MAX = 6.776 of 52.88 MS MIN = -8.045 of 48.16 MS **AXIS 1**



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CREATOR: 12-AUG-97 09:55:00

Safety Laboratories Department, SE Unit  
PLOT PAGE 29

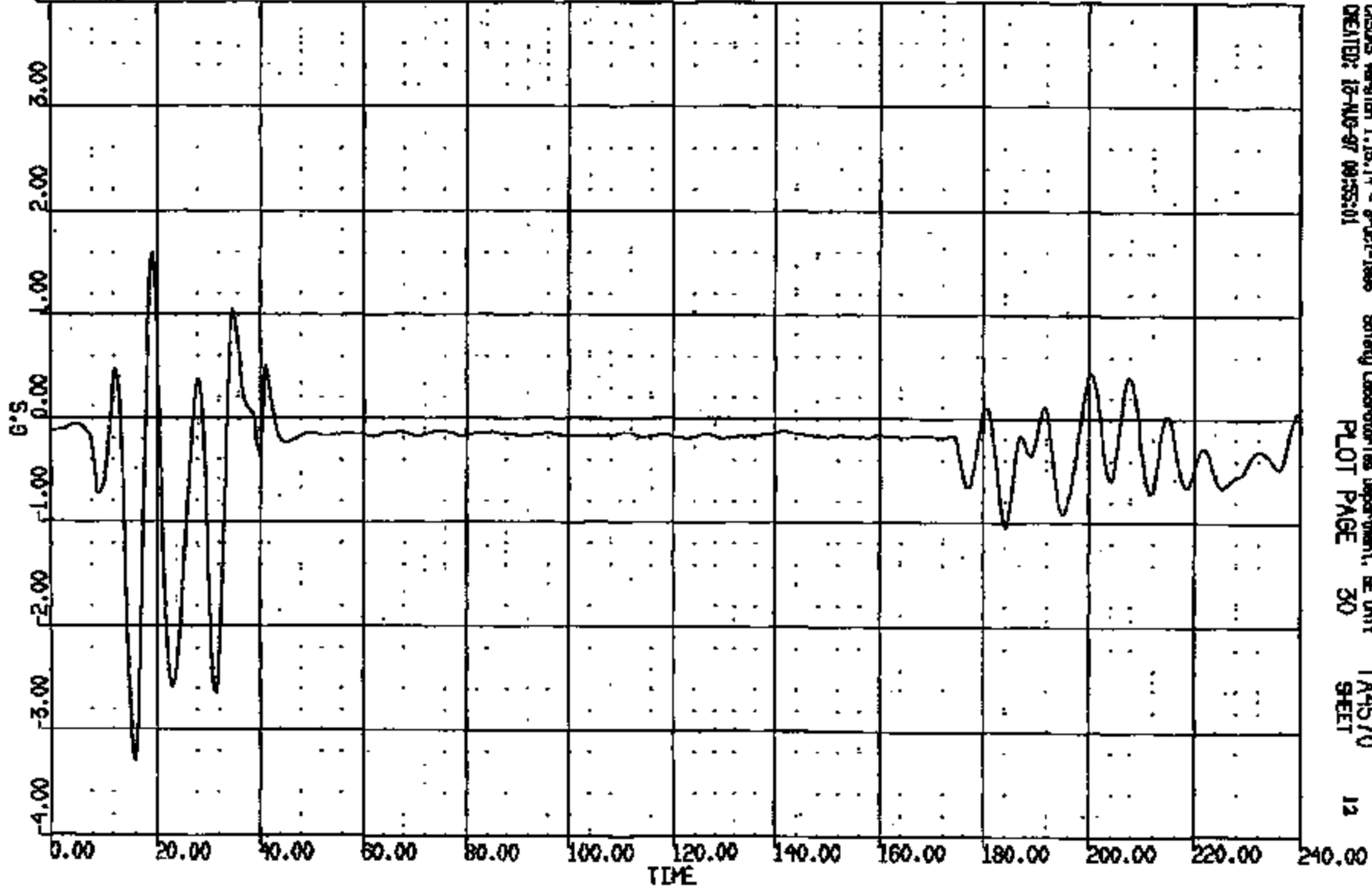
TA4570  
SHEET

11

CRTS 0010797

CR R: 10797 TO: TA4570 DATE: 970818 09:30:55  
199X ON-101

(8) CR10797T FRIFLOOR PNM @ CAL ON ACQ LAT 60C  
MAX = 1.588 at 19.12 MS MIN = -3.303 at 15.92 MS **AXIS 1**

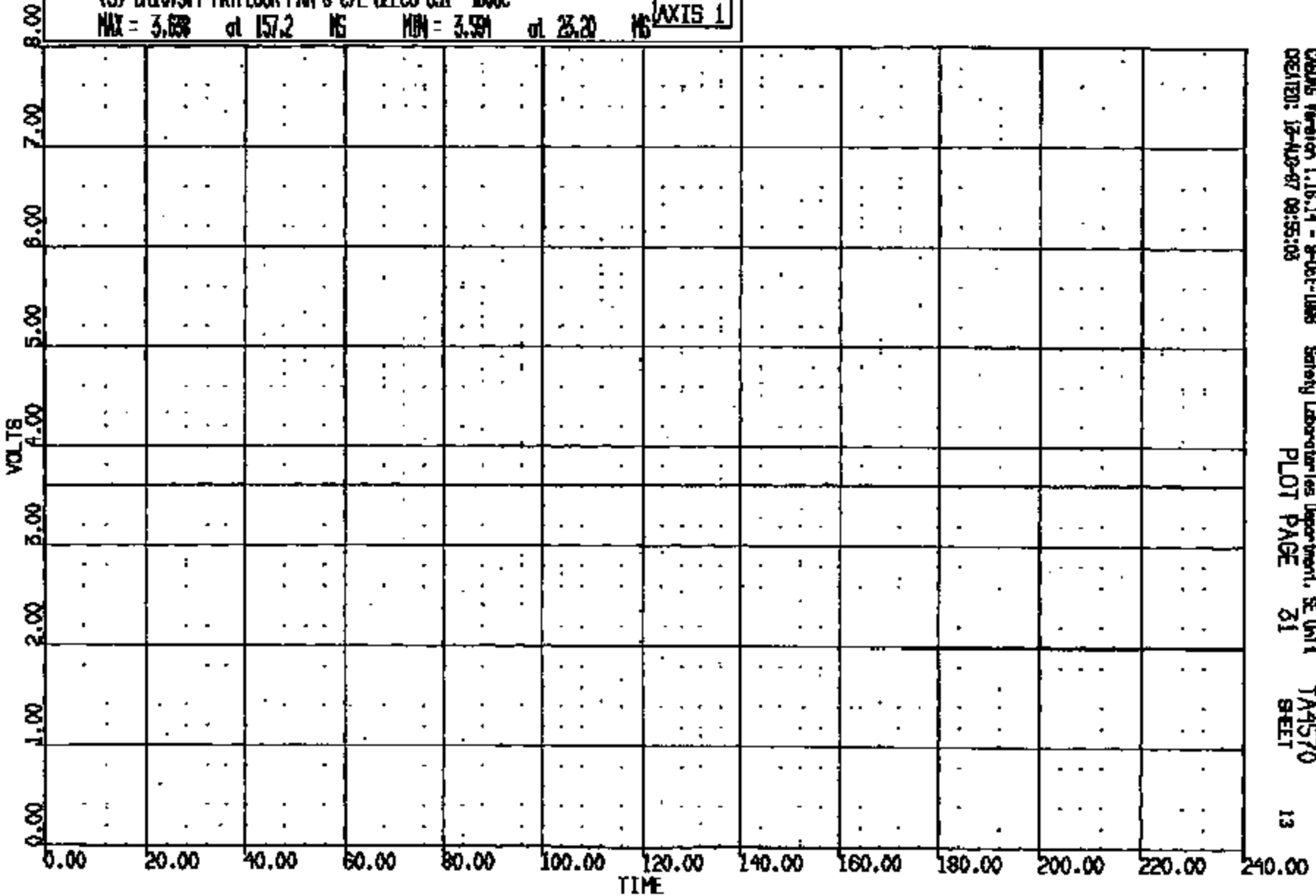


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CRIS 0010797

CR R: 10797 TO: TA4570 DATE: 270813 08:30:55  
199X DN-101

(9) CR10797T FRTFLOOR PAN @ CAL TELCO USE 4000C  
MAX = 3.688 at 157.2 MS MIN = 3.594 at 23.20 MS **AXIS 1**

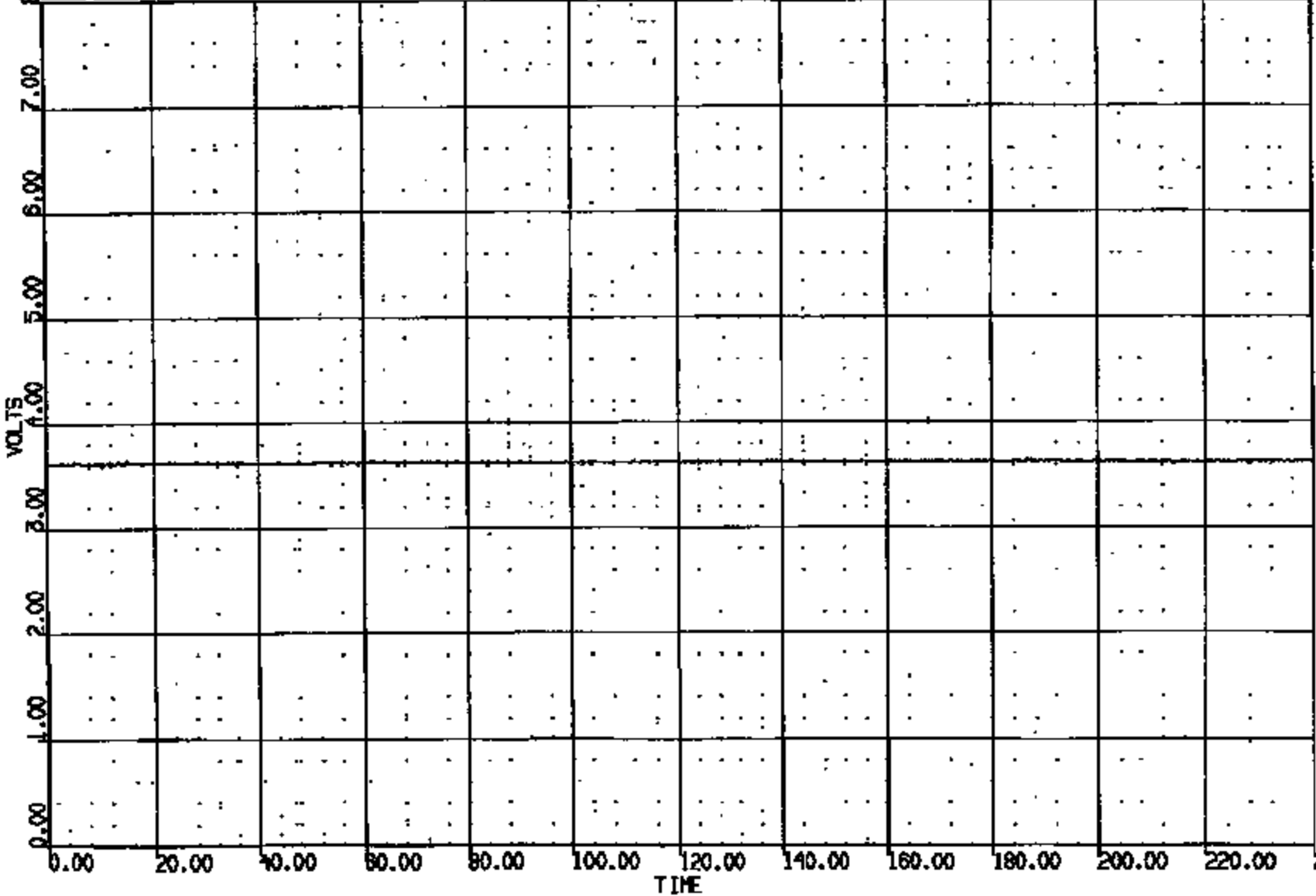


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CREATED: 12-AUG-87 08:55:03 PLOT PAGE 31 SHEET 13

CRTS 0010797

CR R: 10797 TO: TA4570 DATE: 870813 08:50:55  
198X DN-101

(10) CR10797(1) FRTFLOOR PAV @ CAL DELCO BSJ 4000C  
MAX = 3.638 at 5.280 NS MIN = 3.584 at 10.48 NS **AXIS 1**



CRSMB Version 1.18.14 - 8-Oct-1988  
CREATED: 13-AUG-87 08:55:04

Safety Laboratories Department, BE Unit  
PLOT PAGE 32

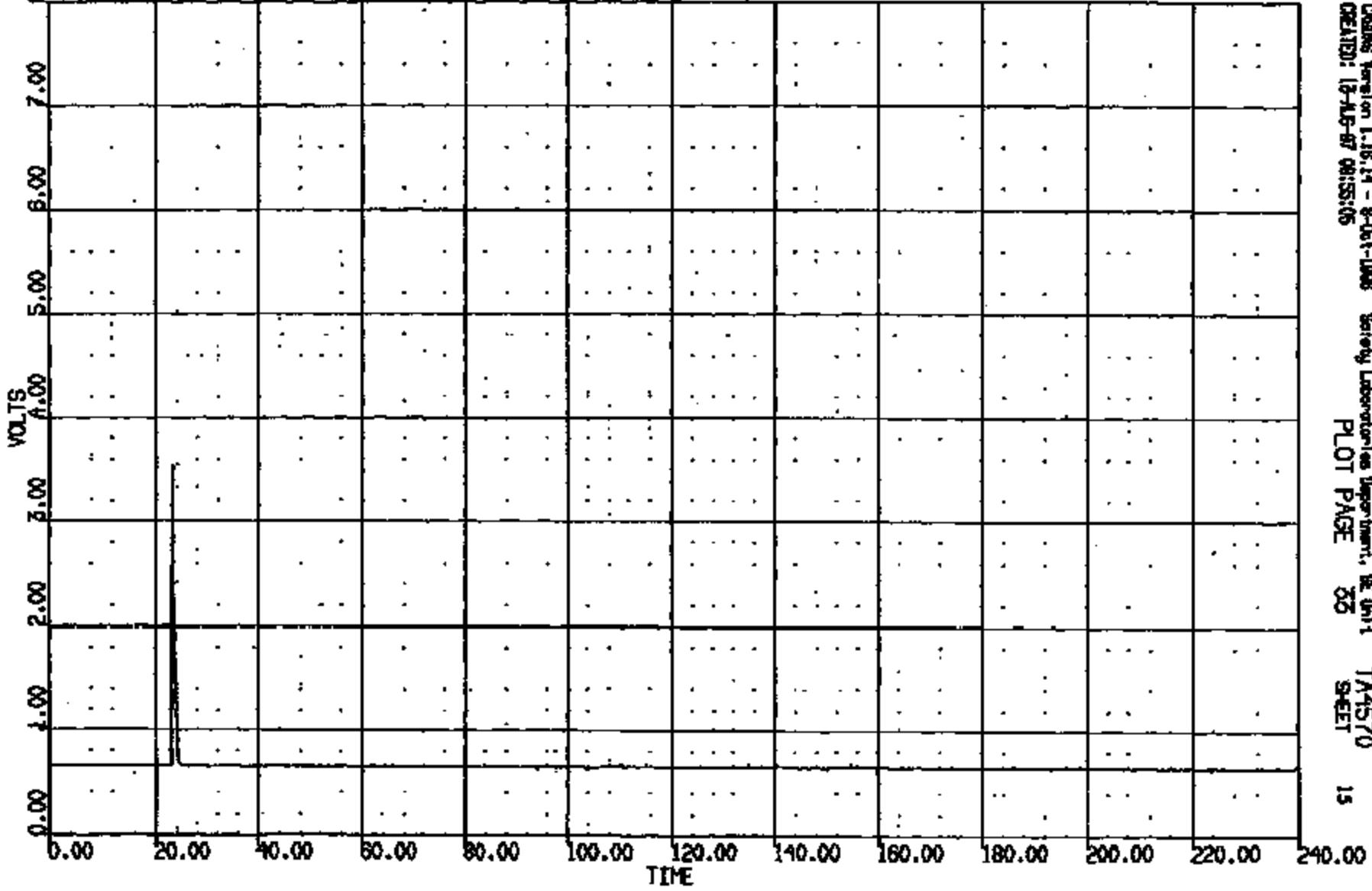
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SHEET

14

CRTS 0010797

CR R: 10797 TO: TA4570 DATE: 870818 08:50:55  
198X DN-101

(11) CR10797 FRI FLOOR PAN @ C/L DELCO US2 400C  
MAX = 3.535 at 23.20 MS MIN = 0.6250 at 94.08 MS **AXIS 1**



CRSNG Version 1.16.14 - 8-Oct-1988 Safety Laboratories Department, BE Unit 1 TA4570  
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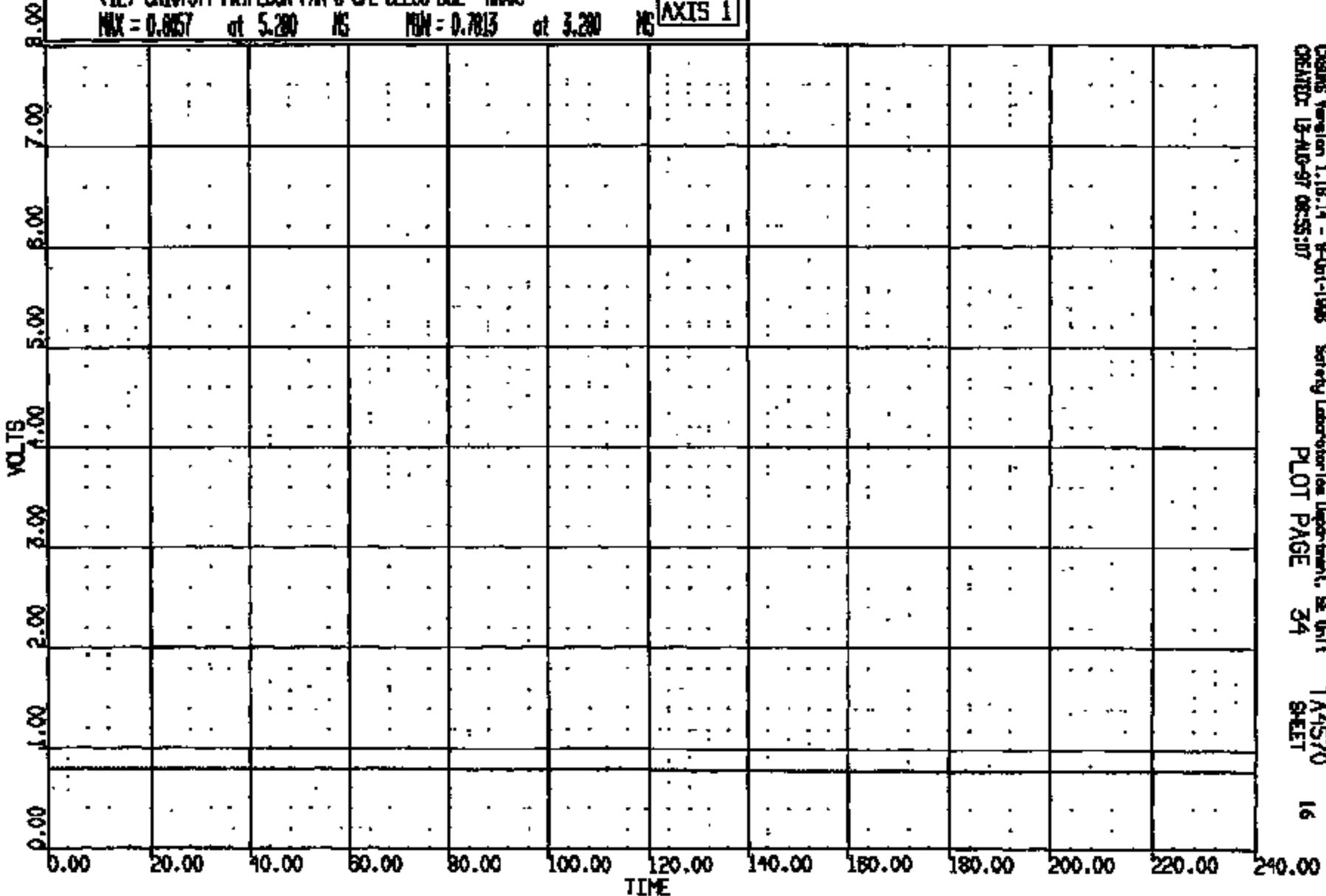
CRIS 0010797



CR R: 10797 TO: TA4570 DATE: 070815 08:30:55  
195X DN-101

(12) CR10797T FRIFLOOR PAN @ CAL DELCO BS2 4000C  
MAX = 0.0057 at 5.200 MS MIN = 0.7813 at 3.200 MS

AXIS 1

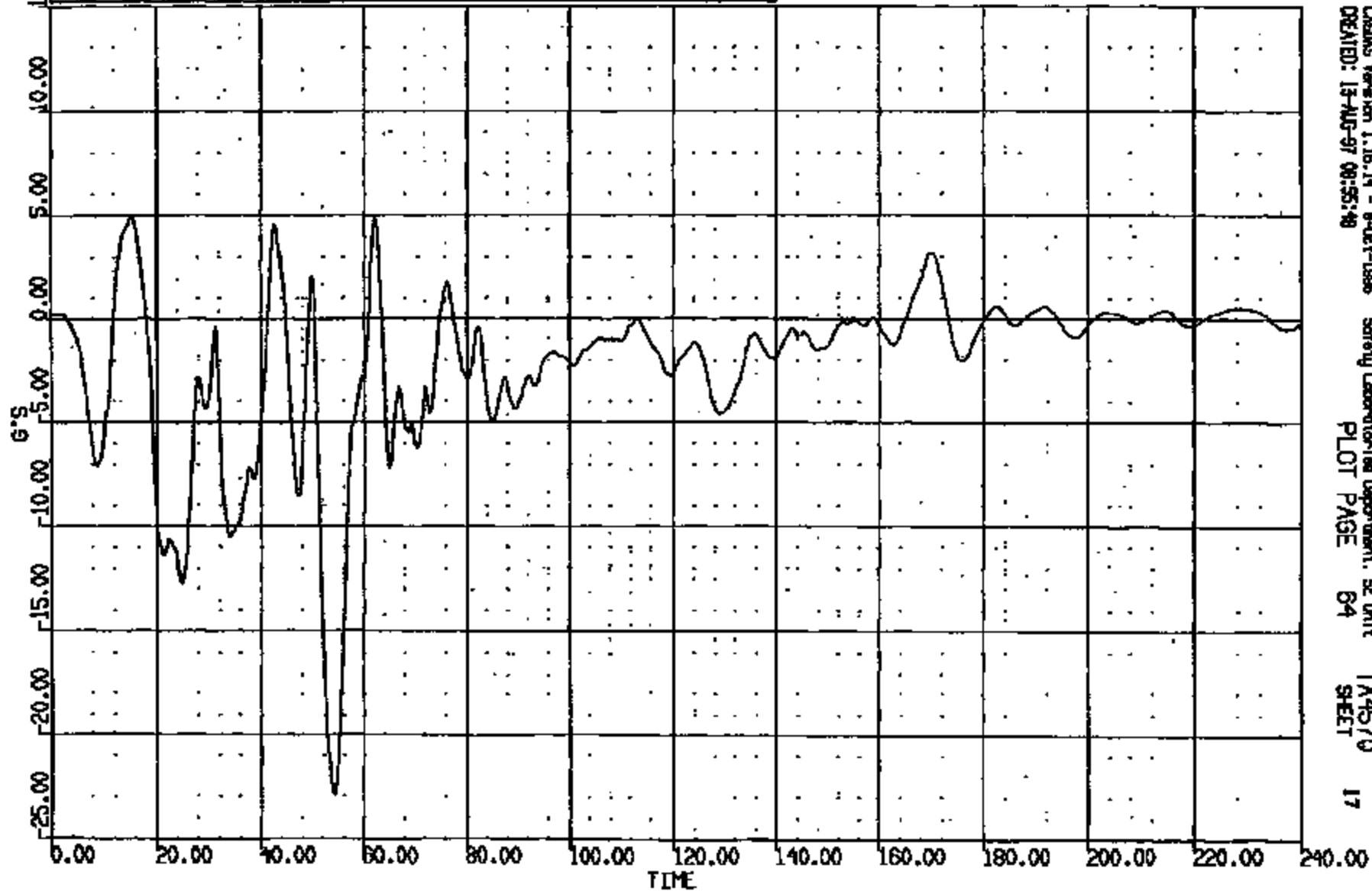


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CRTS 0010797

CR R: 10797 TO: TA4570 DATE: 970515 08:50:55  
199X DN-101

(42) CR10797 C/RAD UP FRT L SIDE CSA LONG BOC  
MAX = 4.898 at 15.28 MS MIN = -22.93 at 51.16 MS **AXIS 1**



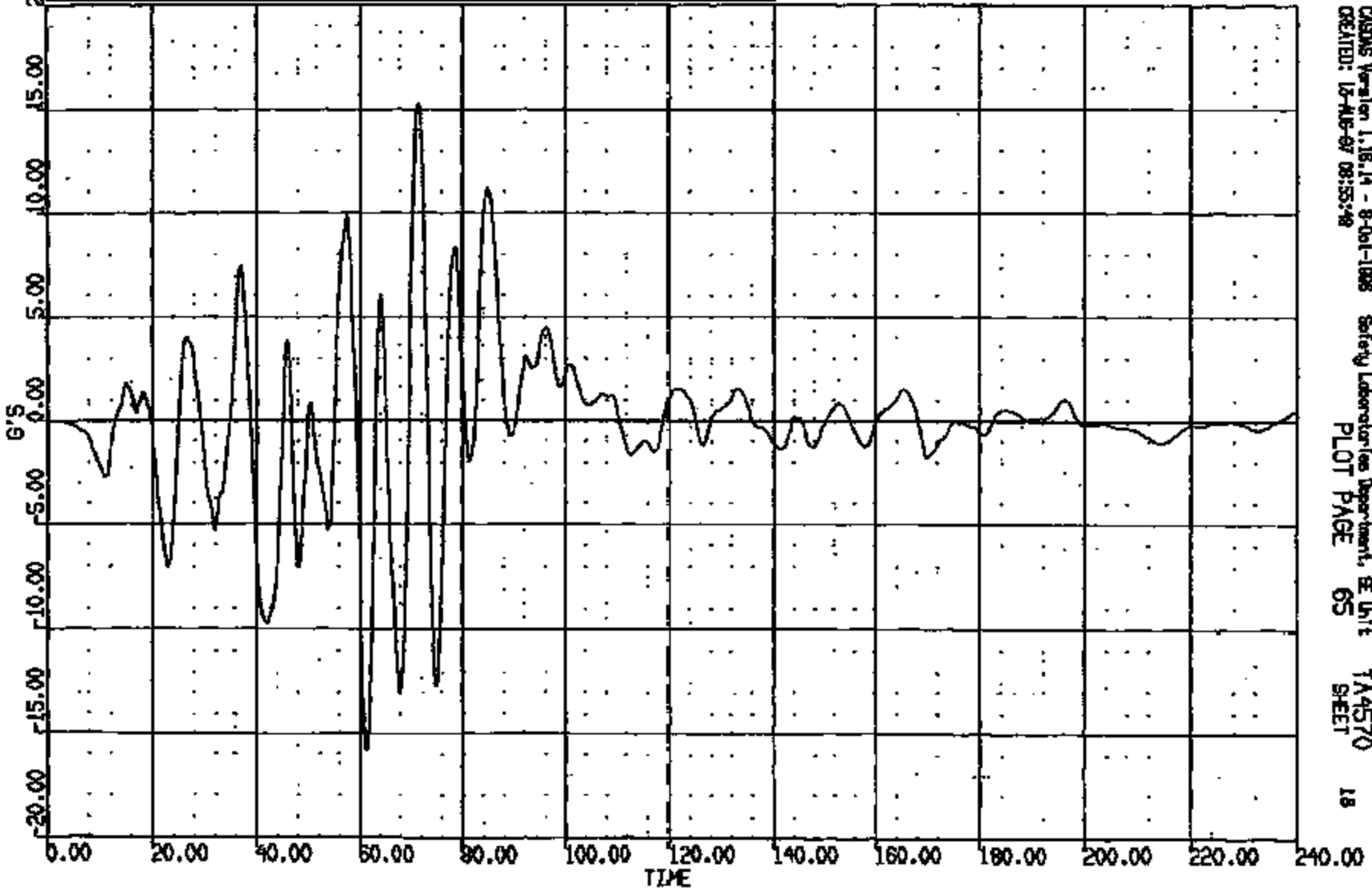
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PLOT PAGE 64 TA4570 SHEET 17

CRIS 0010797

CR R: 10797 TO: TA4570 DATE: 970813 08:30:55  
100X DN-101

(45) CR10797 C/RAD UP FRT L SIDE CSA VERT 60C  
MAX = 15.22 at 71.36 NS MIN = -15.89 at 61.26 NS

AXIS 1

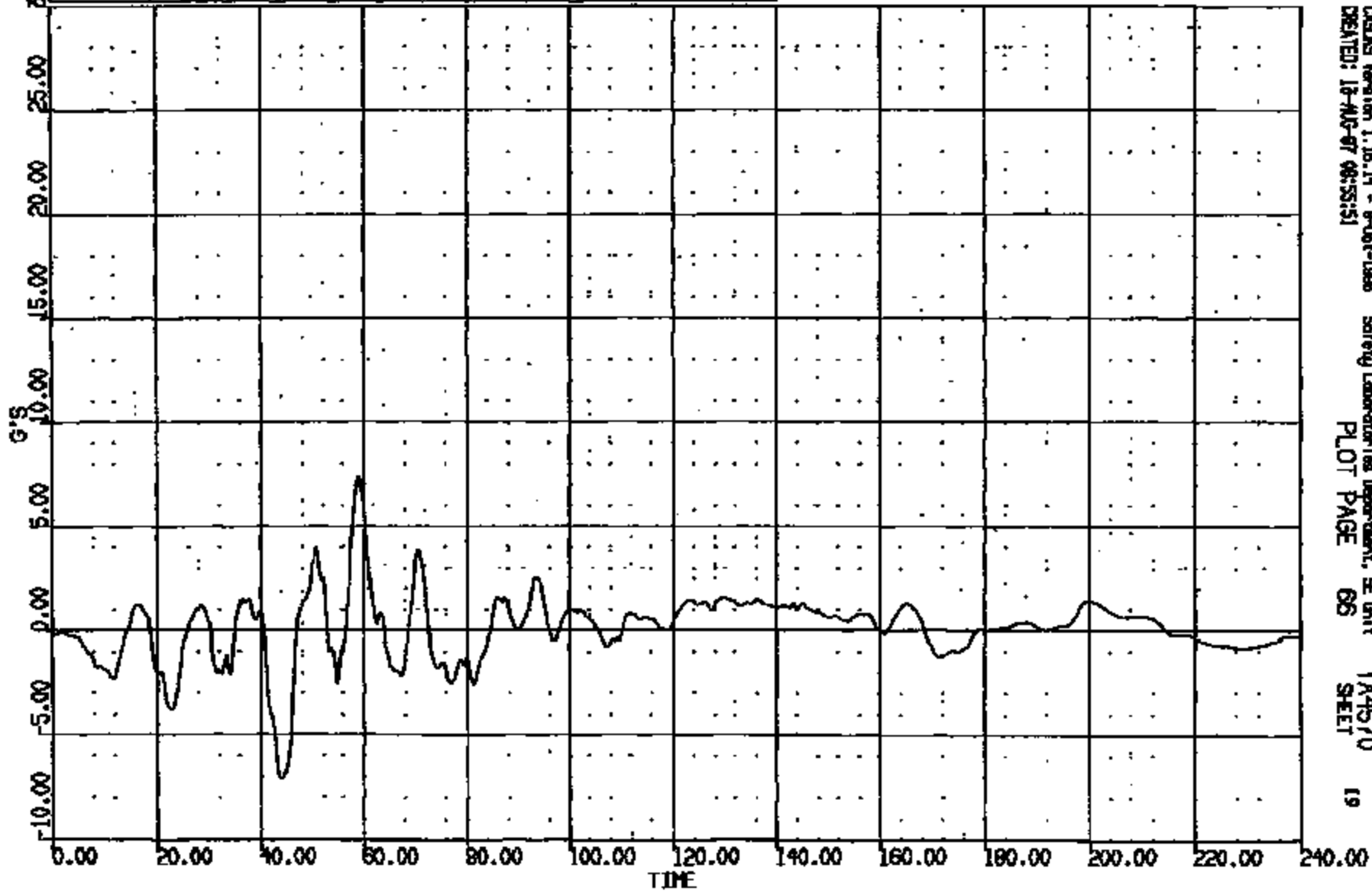


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PLOT PAGE 65  
TA4570  
SHEET 18

CRTS 0010797

CR R: 10797 TO: TA4570 DATE: 970813 08:30:58  
100X DN-101

(44) CR10797T C/RAD UP FRT L SIDE CSA LAT 60C  
MAX = 7.371 at 59.04 MS MIN = -7.135 at 43.81 MS **AXIS 1**

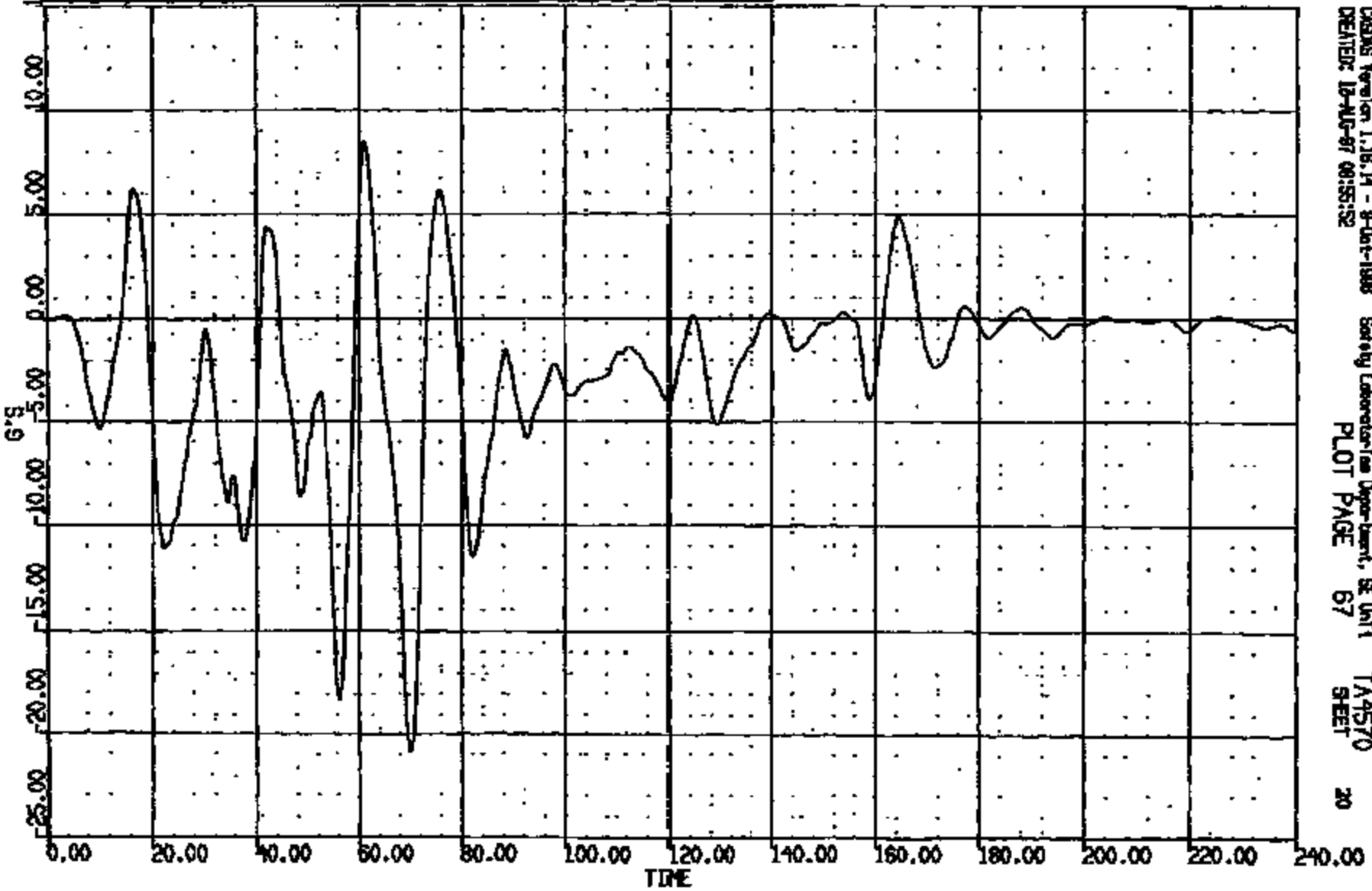


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CRIS 0010797

CR R: 10797 TO: TA4570 DATE: 970815 08:50:55  
198X DN-101

(45) CR10797T C/RAD UP FRT R SIDE CSA LONG 60C  
MAX = 8.464 at 61.04 MS MIN = -20.88 at 70.00 MS **AXIS 1**



CRS Version 1.16.14 - 8-Oct-1998 Safety Laboratory Department, SE Unit 1  
CREATED: 12-AUG-97 08:55:32 PLOT PAGE 67 TA4570 SHEET 20

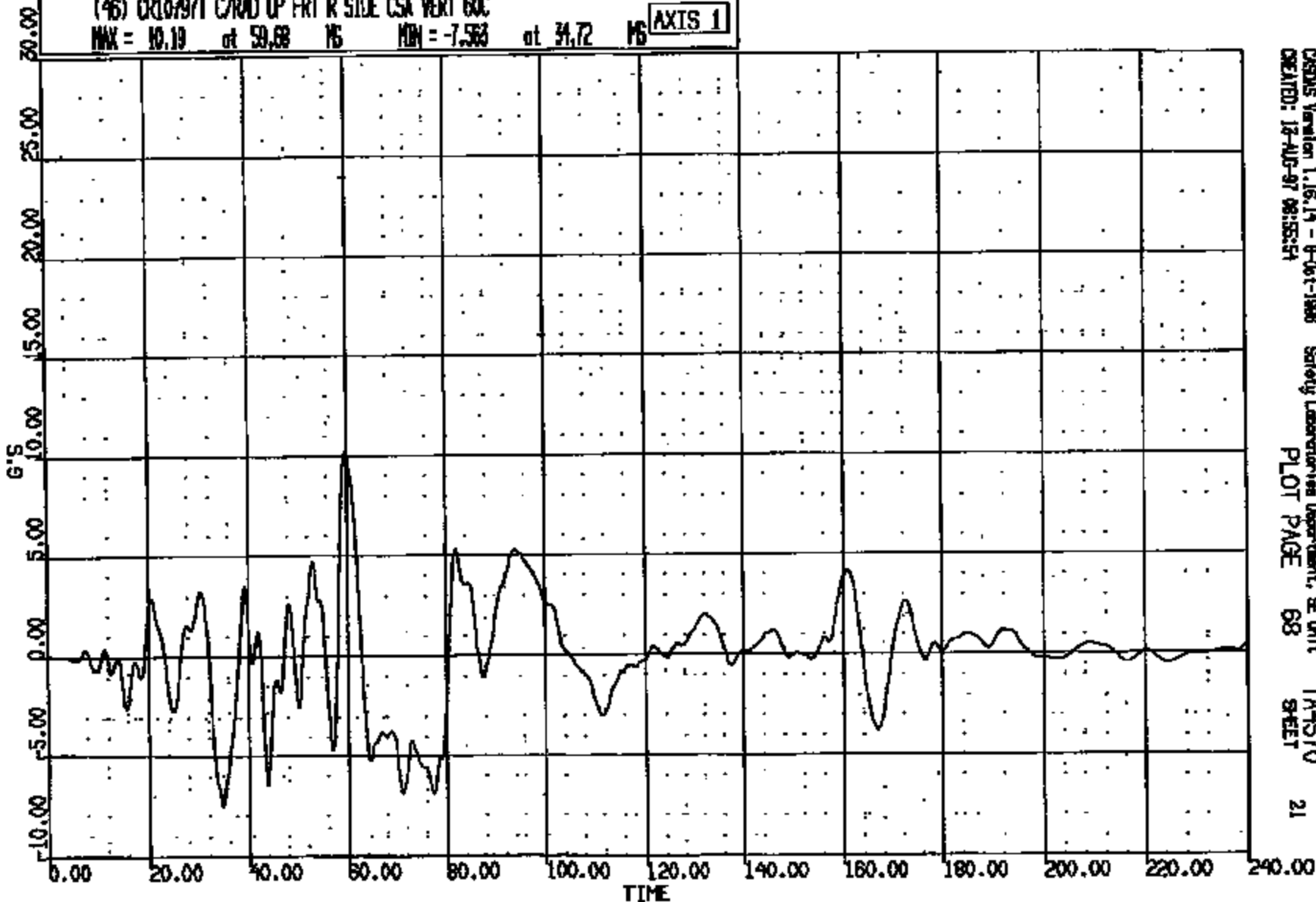
CRIS 0010797

CR R: 10797 TO: TA4570 DATE: 870813 08:30:55  
199X DN-101

(46) CR10797T C/RAD UP FRT R SIDE CSA VERT 60C

MAX = 10.19 at 59.68 MS MIN = -7.563 at 34.72 MS

AXIS 1



CRSIS Version 1.16.14 - 8-Oct-1988  
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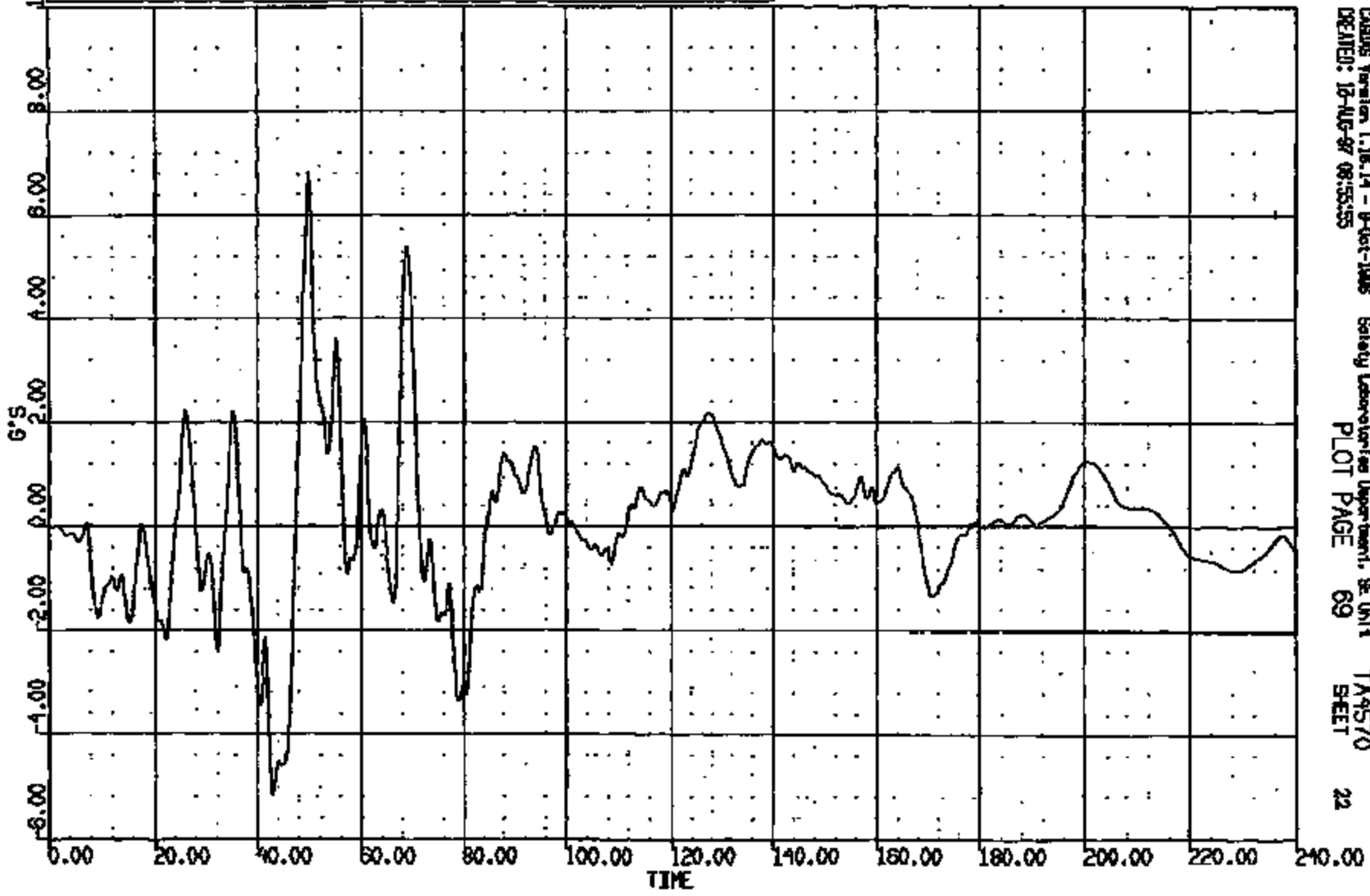
Safety Laboratories Department, SE Unit  
PLOT PAGE 68

TA4570  
SHEET 21

CRIS 0010797

CR R: 10797 TO: TA4570 DATE: 970813 08:30:55  
199X DN-101

(47) CR10797T C/RND UP FRT R SIDE CSA LAT 60C  
MAX = 6.792 at 50.00 MS MIN = -5.164 at 12.96 MS **AXIS 1**

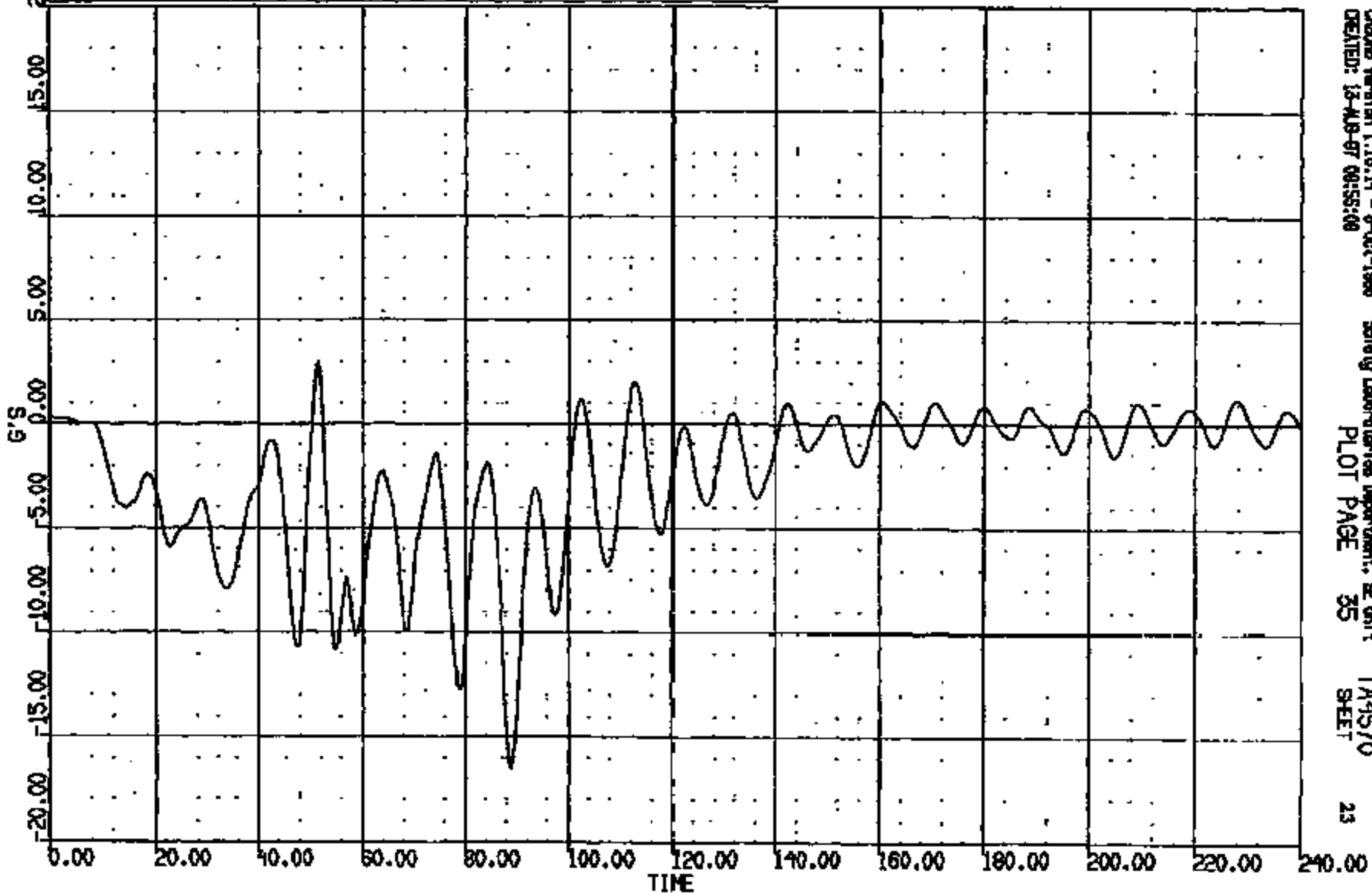


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CREATED: 12-AUG-97 08:55:55 PLOT PAGE 69 TA4570 SHEET 22

CRTS 0010797

CR R: 10797 TO: TA4570 DATE: 070815 09:30:55  
199X DN-101

(15) CR10797 FRTFLOOR PAM @ C/L ON DELCO LONG 60C  
MAX = 3.011 at 51.44 MS MIN = -16.56 at 88.88 MS **AXIS 1**



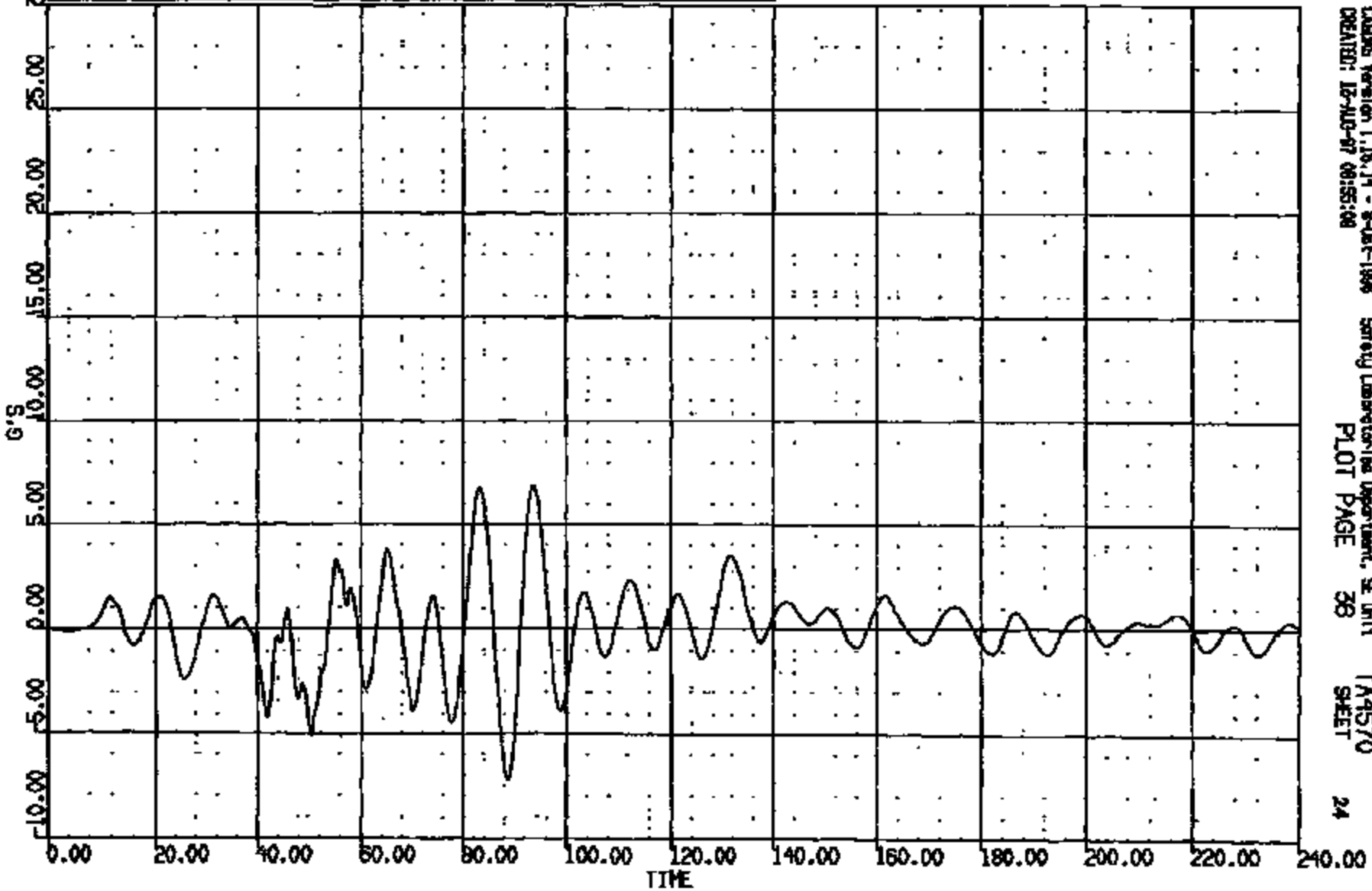
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CRIS 0010797



CR R: 10797 TD: TA4570 DATE: 970813 08:30:55  
199X DN-101

(14) CR10797T PRIFLOOR PAN @ C/L ON DELCO VERT 60C  
MAX = 6.896 at 93.60 MS MIN = -7.218 at 88.64 MS **AXIS 1**



CARDAS Version 1.18.14 - 8-Oct-1998 Safety Laboratory Department, SE Unit 1  
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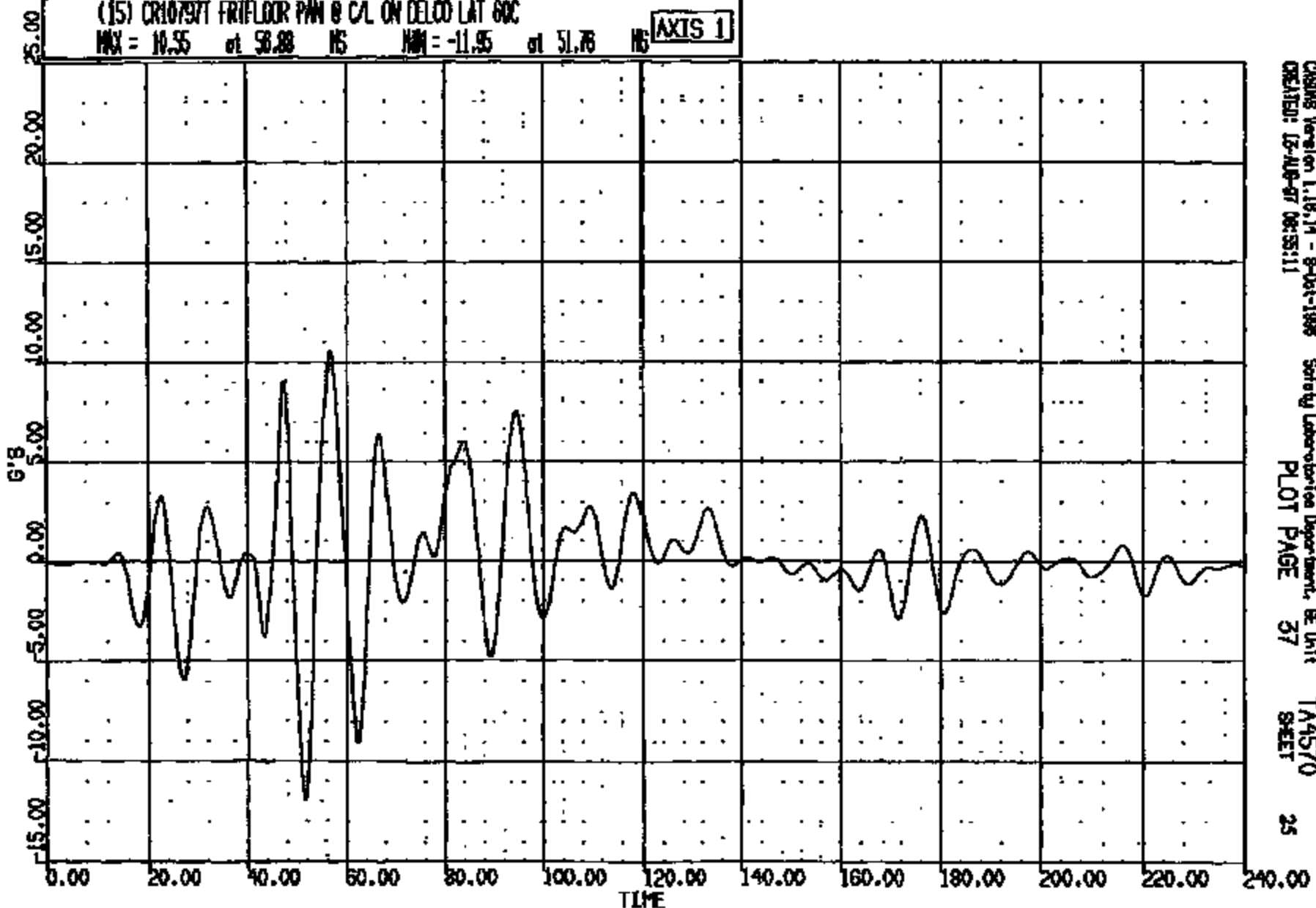
CRIS 0010797

CR R: 10797 TO: TA4570 DATE: 970813 08:30:58  
189X DN-101

(15) CR10797T FRIEFLOR PAV @ CAL ON DELCO LAT 80C

MAX = 10.55 at 58.88 NS MIN = -11.95 at 51.76 NS

AXIS 1

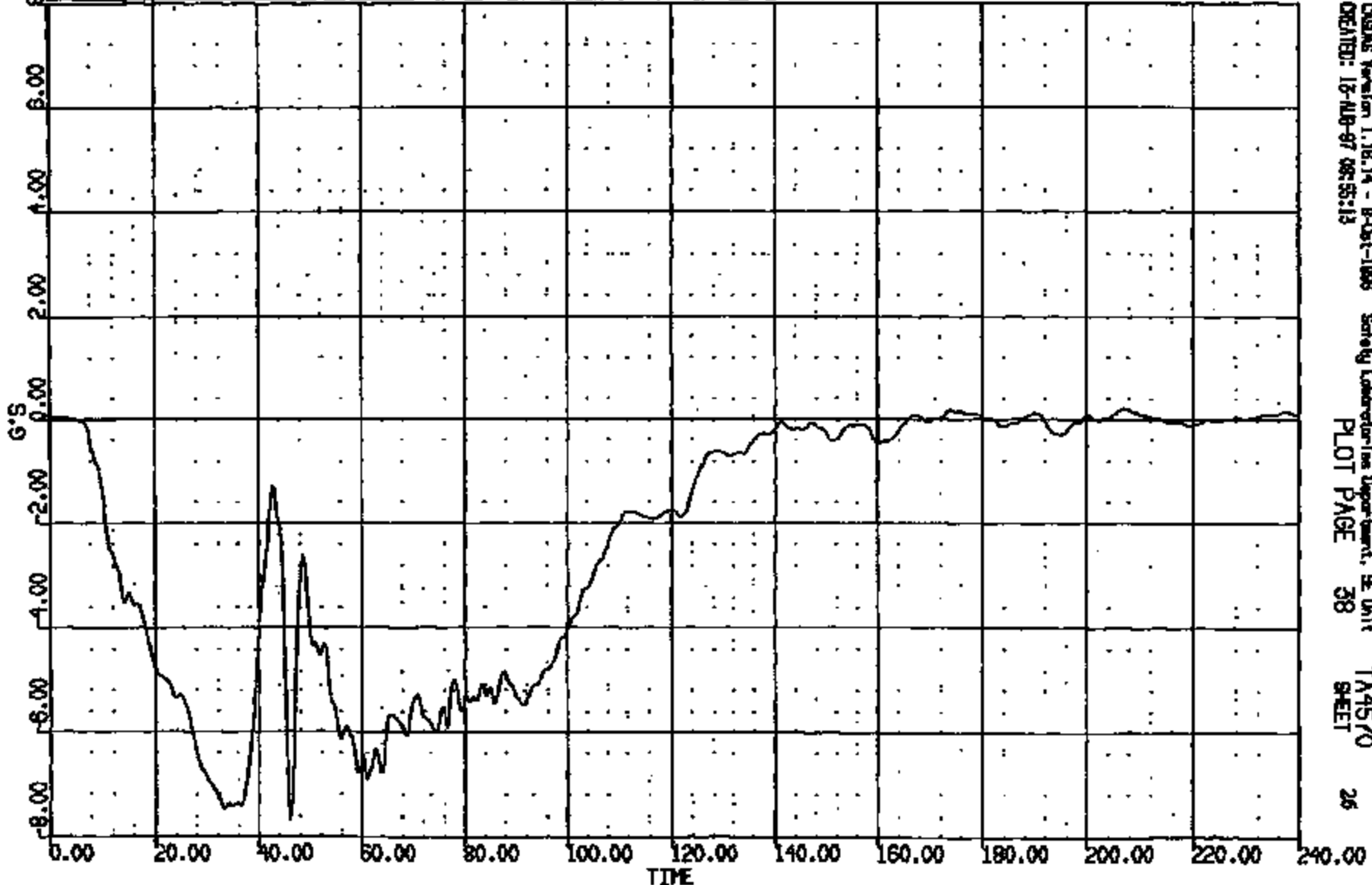


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CRTS 0010797

CR #: 10797 TD: TA4570 DATE: 970818 08:30:55  
199X DN-101

(16) CR10797 L/B-PILLAR INSIDE LOWER SH LONG BOC  
MAX = 0.2010 at 206.7 NS MIN = -7.570 at 46.00 NS **AXIS 1**

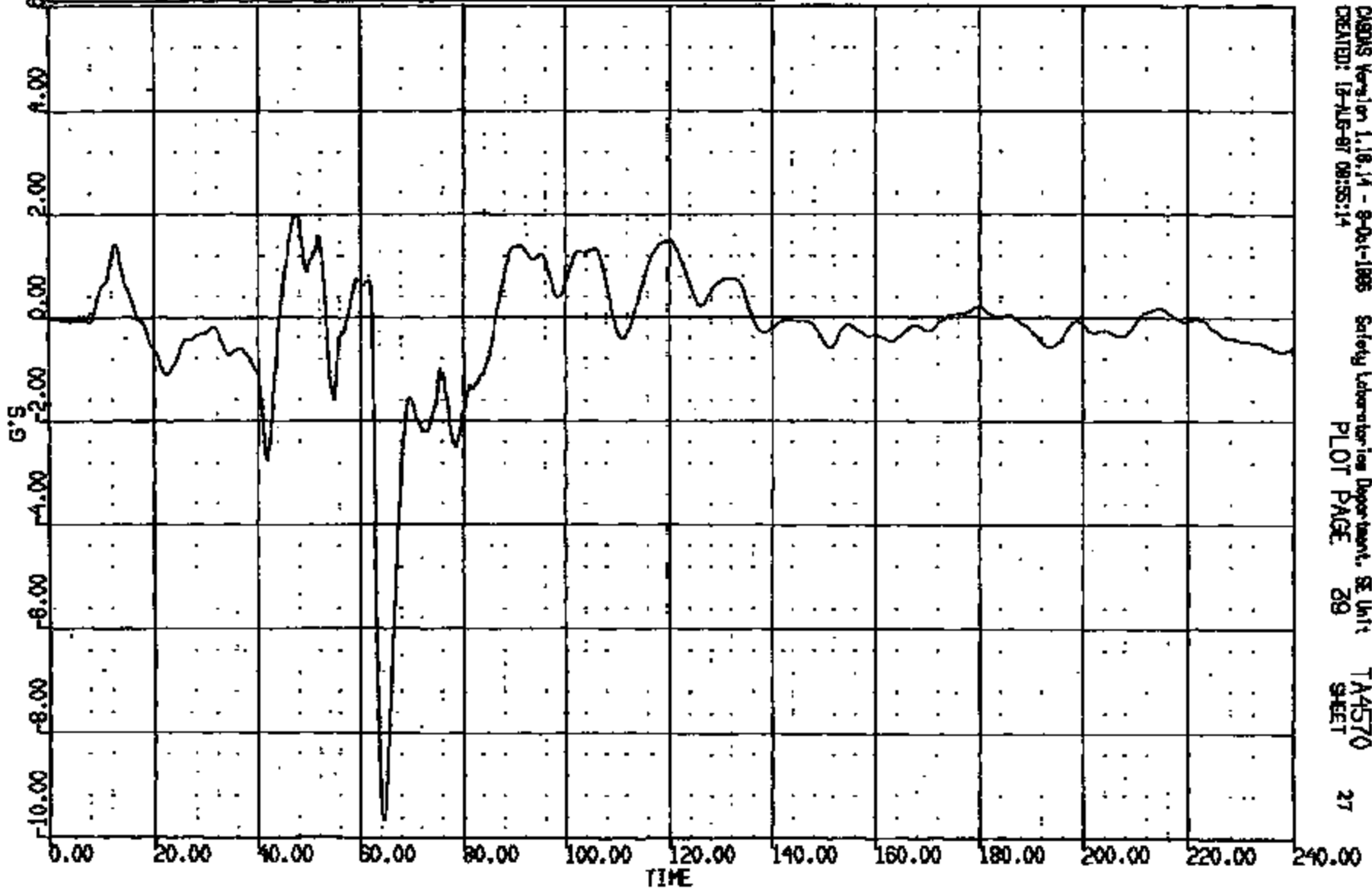


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CRTS 0010797

CR R: 10797 TO: TA4570 DATE: 970215 08:30:55  
199X DN-101

(17) CR10797 L/B-PILLAR INSIDE LOWER SH VERT 60C  
MAX = 1.973 at 47.36 MS MIN = -9.872 at 61.56 MS **AXIS 1**



CRS Version 1.10.14 - 8-Oct-1995  
CREATED: 12-JUL-97 08:55:14

Safety Laboratory Department, SE Unit  
PLOT PAGE 29

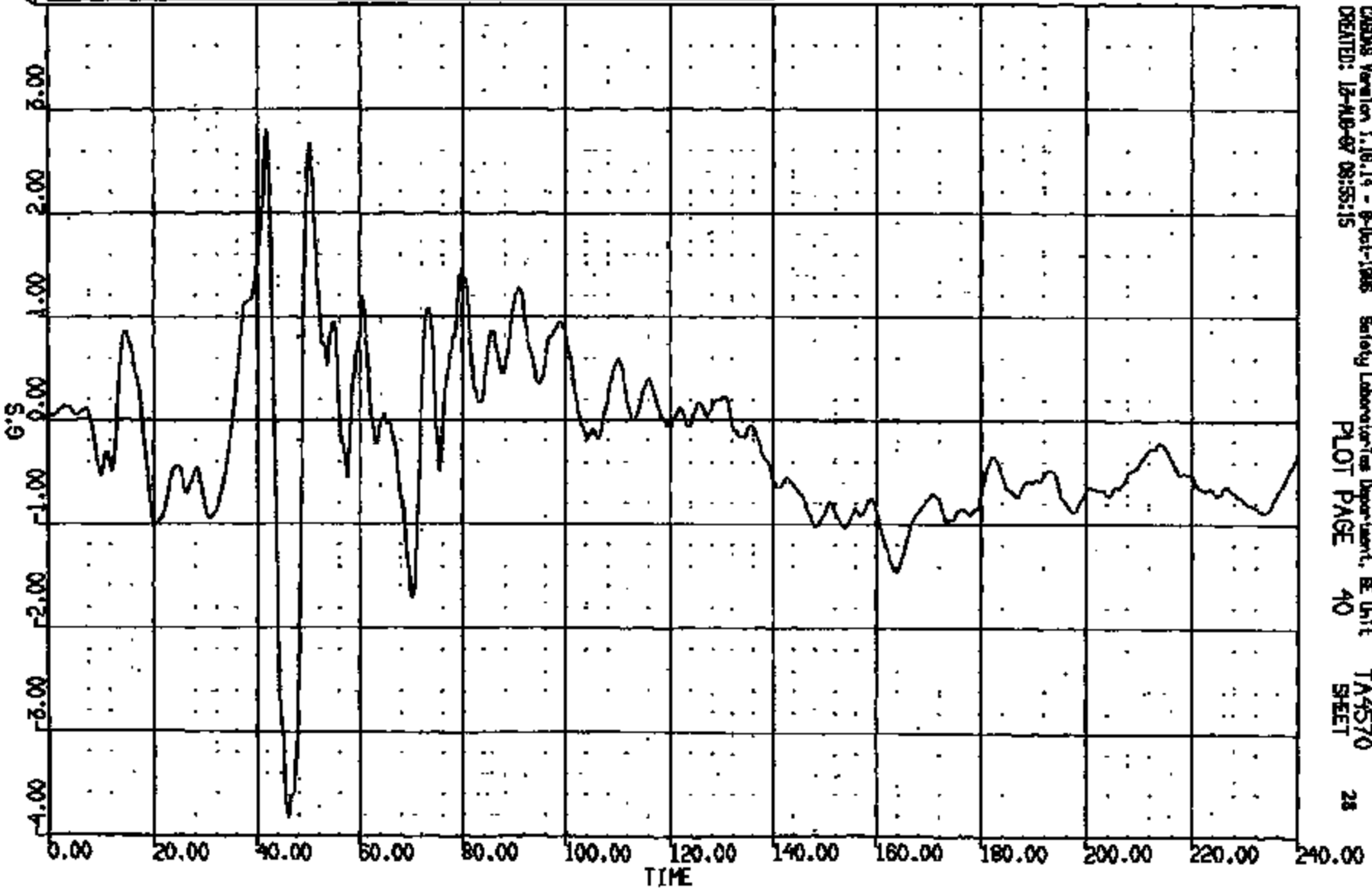
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CRIS 0010797

CR #: 10797 TO: TA4570 DATE: 970813 08:30:55  
100X DN-101

(18) CR10797T L/B-PILLAR INSIDE LOWER SH LAT 60C  
MAX = 2.800 at 41.84 MS MIN = -3.884 at 46.00 MS **AXIS 1**

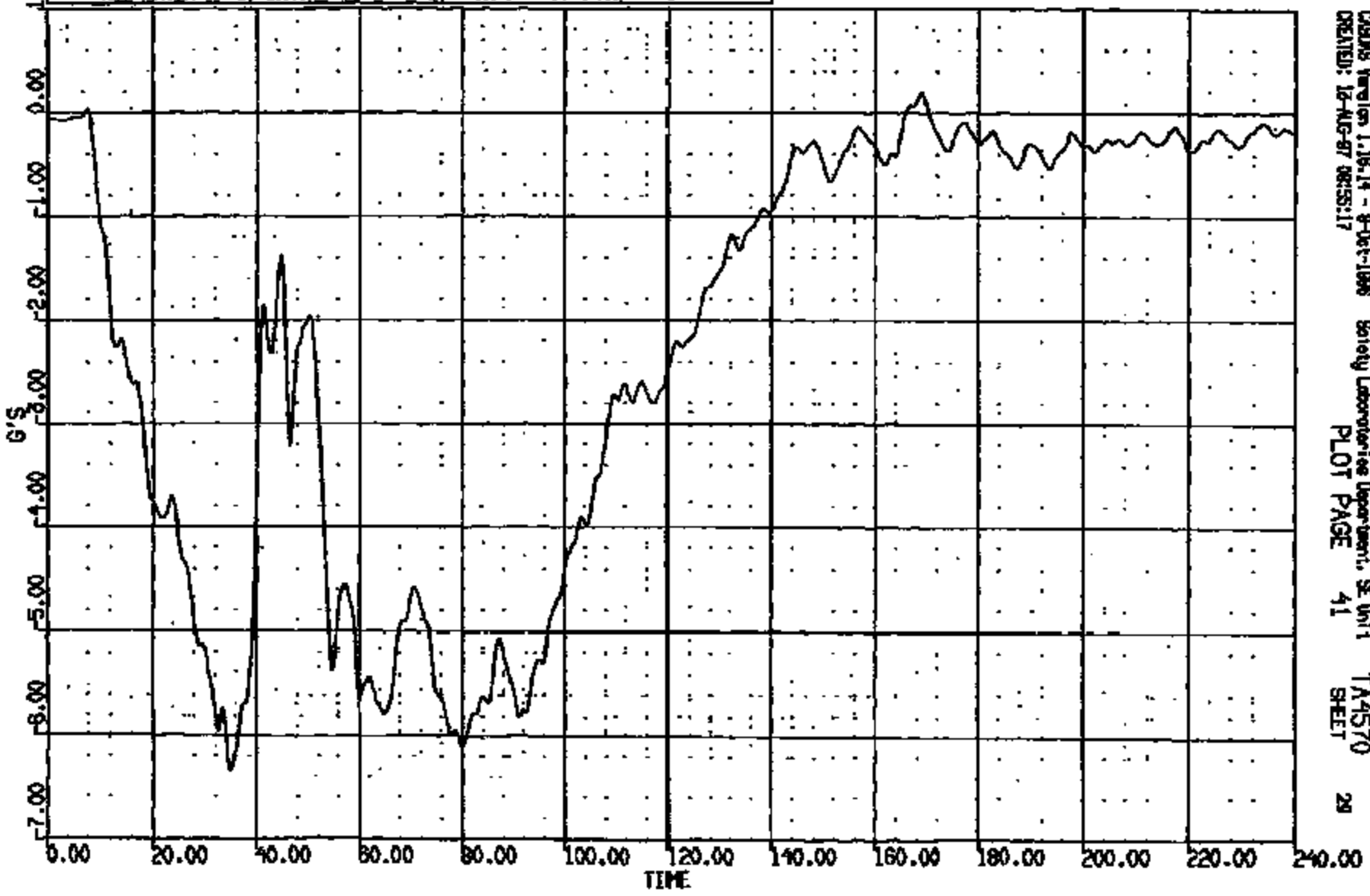


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CRTS 0010797

CR R: 10797 TO: TA4570 DATE: 970813 08:30:55  
199X DN-101

(19) CR10/971 R/B-PILLAR INSIDE LOWER SH LONG GDC  
MAX = 0.1968 at 108.9 MS MIN = -6.349 at 34.95 MS **AXIS 1**



CADDS Version 1.16-14 - 8-Oct-1996 Safety Laboratories Department, SE Unit TA4570  
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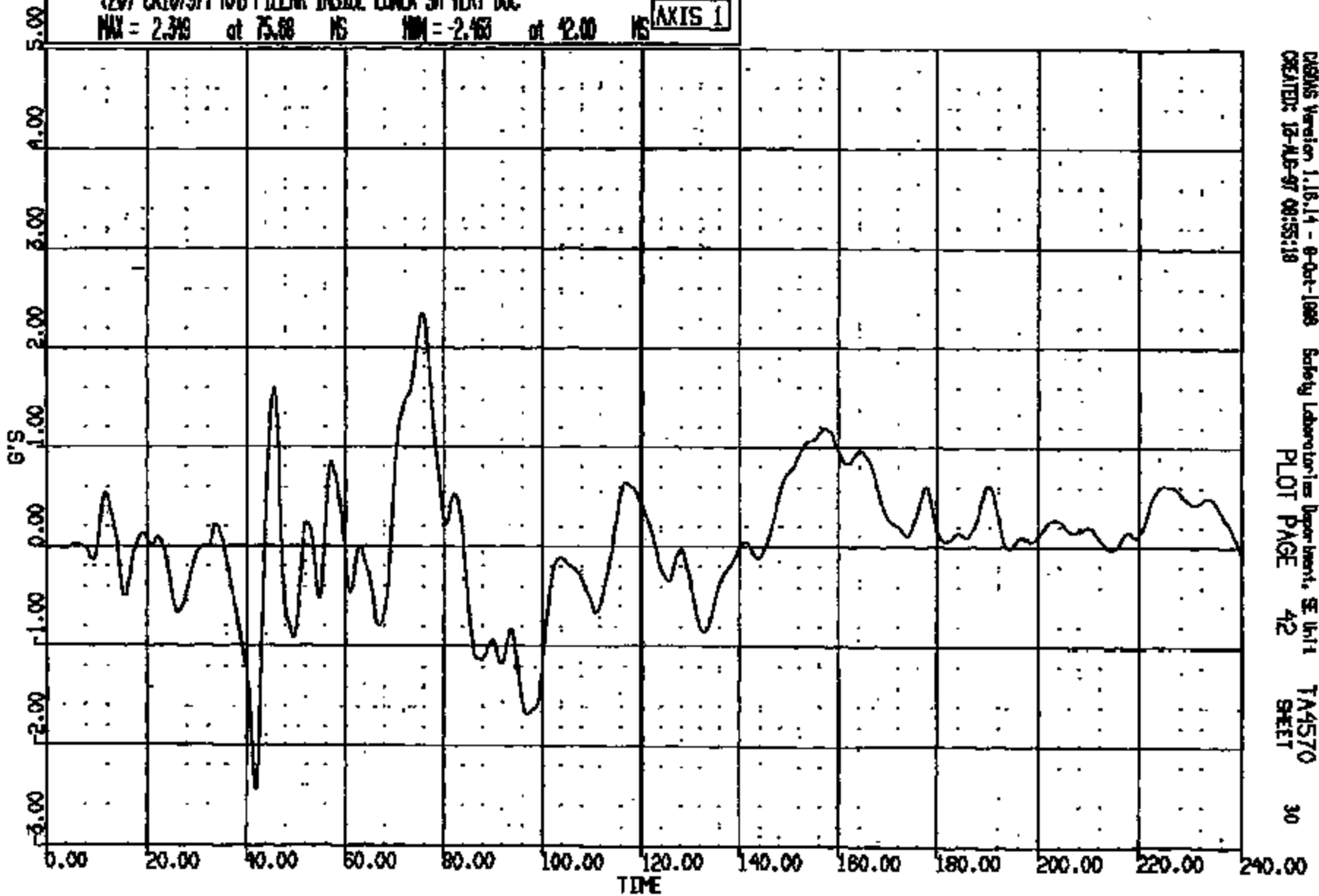
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CR R: 10797 TO: TA4570 DATE: 870818 08:50:55  
100X DN-101

(20) CR10797T R/B-PILLAR INSIDE LOWER SH VERT 60C

MAX = 2.349 at 75.88 MS MIN = -2.463 at 42.00 MS

AXIS 1



CRAMS Version 1.18.14 - 8-Oct-1988 Safety Laboratories Department, SE Unit  
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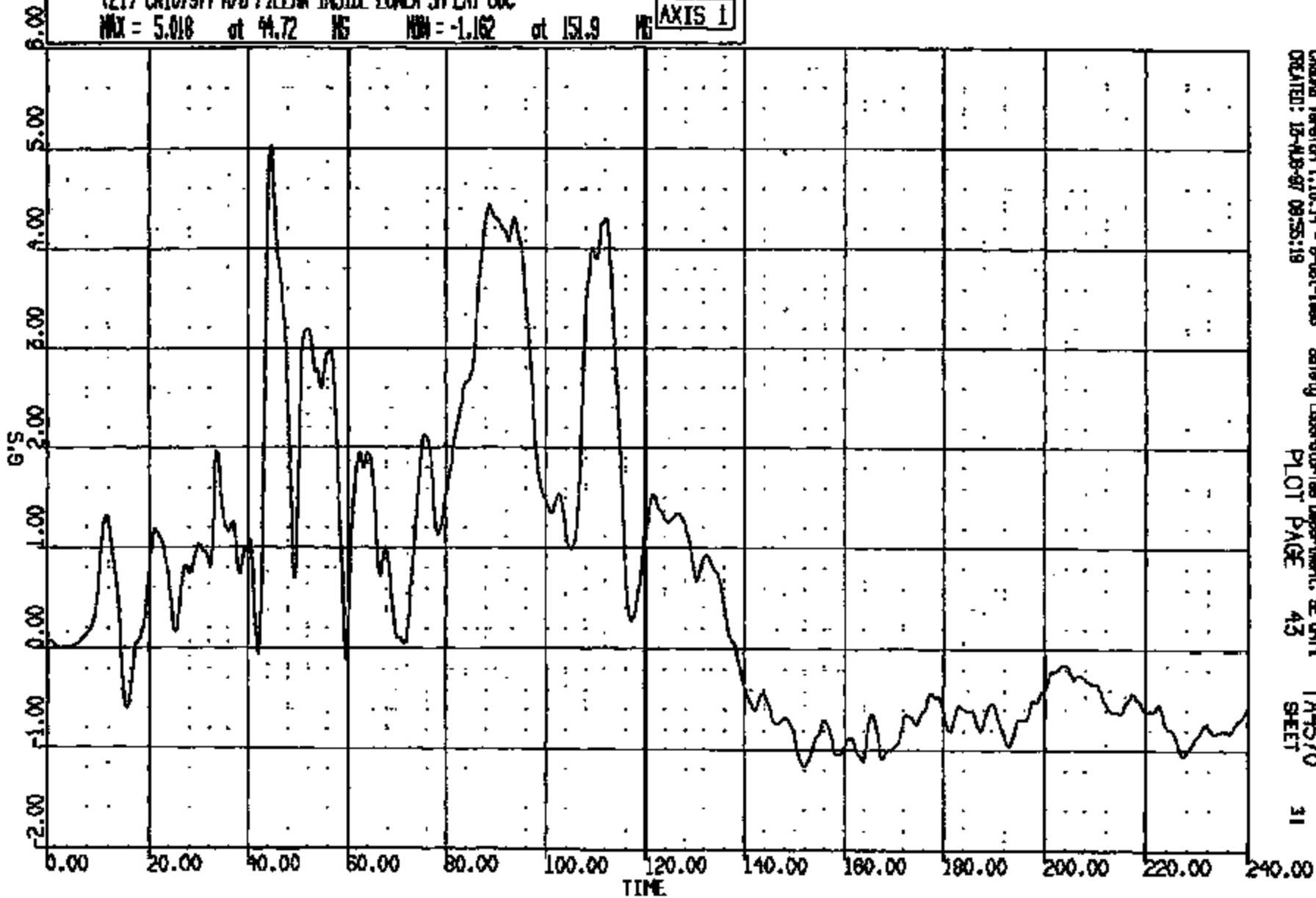
CRIS 0010797

CR R: 10797 TO: TA4570 DATE: 970913 08:30:55  
100X DN-101

(21) CR10797 R/B-PILLAR INSIDE LOWER SH LAT 60C

MAX = 5.018 at 44.72 MS MIN = -1.162 at 151.9 MS

AXIS 1



CARDAS Version 1.18.14 - 9-04-1995  
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Safety Laboratory Department, SE Unit  
PLOT PAGE 43

TA4570  
SHEET

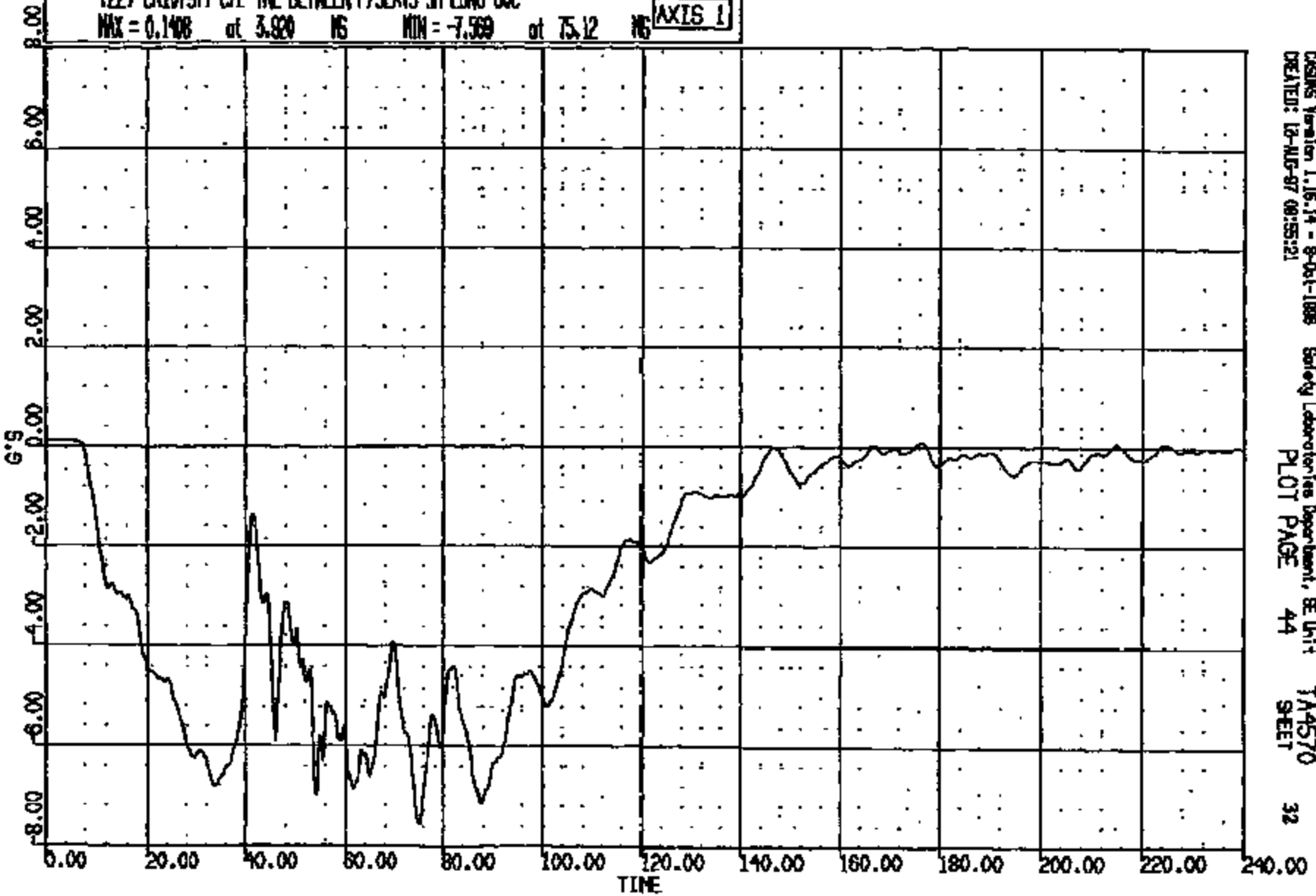
31

CRIS 0010797



CR R# 10797 TO: TA4570 DATE: 070815 08:30:55  
199X DN-101

(22) CR107971 CAL TML BETWEEN F/SEATS SH LONG 60C  
MAX = 0.1408 at 3.920 NS MIN = -7.569 at 75.12 NS **AXIS 1**



CASINS Version 1.16.14 - 8-Oct-1998 Safety Laboratories Department, SE Unit TA4570  
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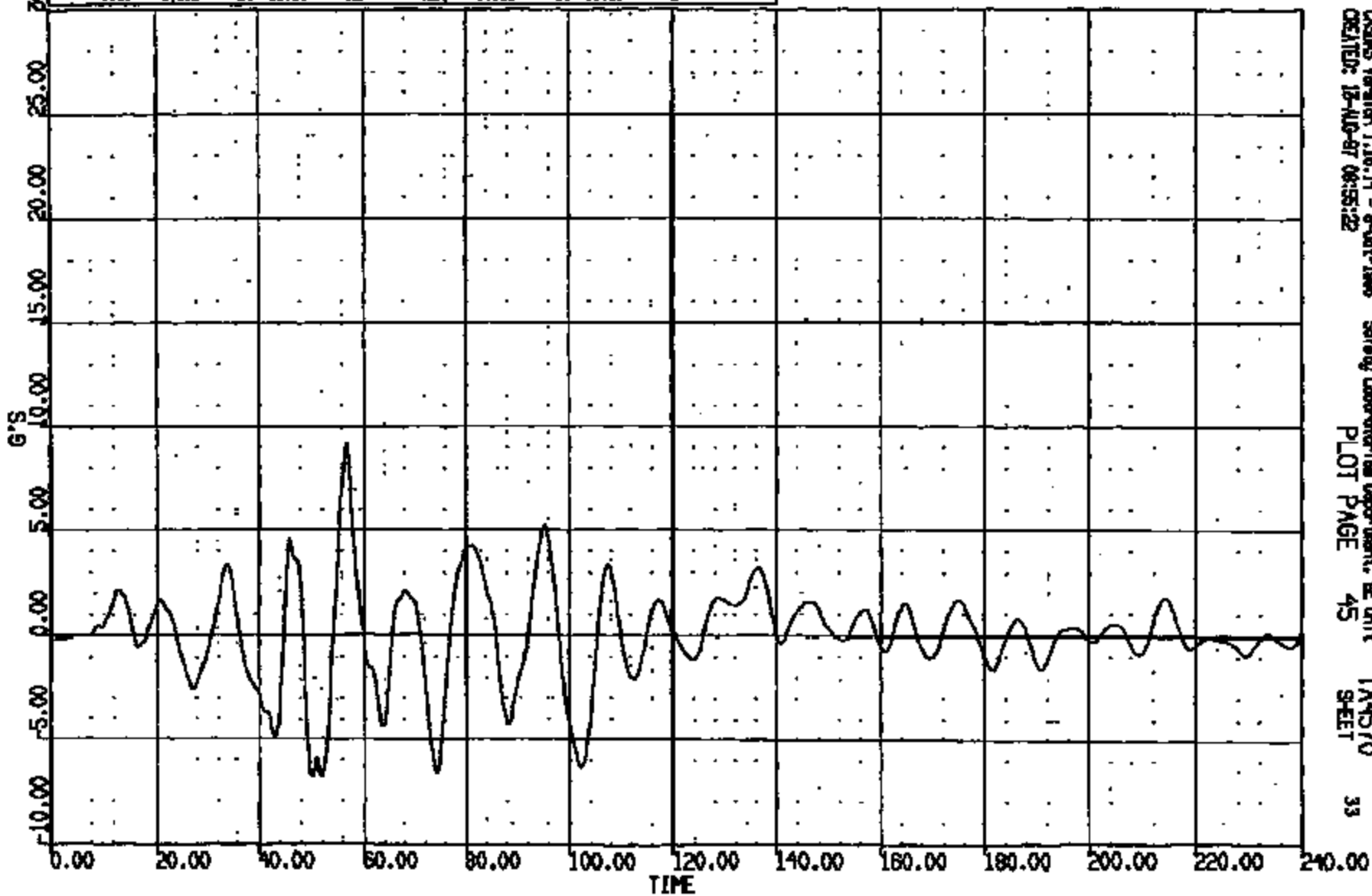
CRIS 0010797

CR R: 10797 TO: TA4570 DATE: 970818 08:50:55  
199X DN-101

(25) CR10797T CAL TML BETWEEN F/SEATS ON VERT GOC

MAX = 9.161 at 55.80 MS MIN = -6.855 at 50.16 MS

AXIS 1



CASMS Version 1.16.14 - 9-Oct-1996  
CREATED: 18-AUG-97 08:55:22

Safety Laboratories Department, SE Unit  
PLOT PAGE 45

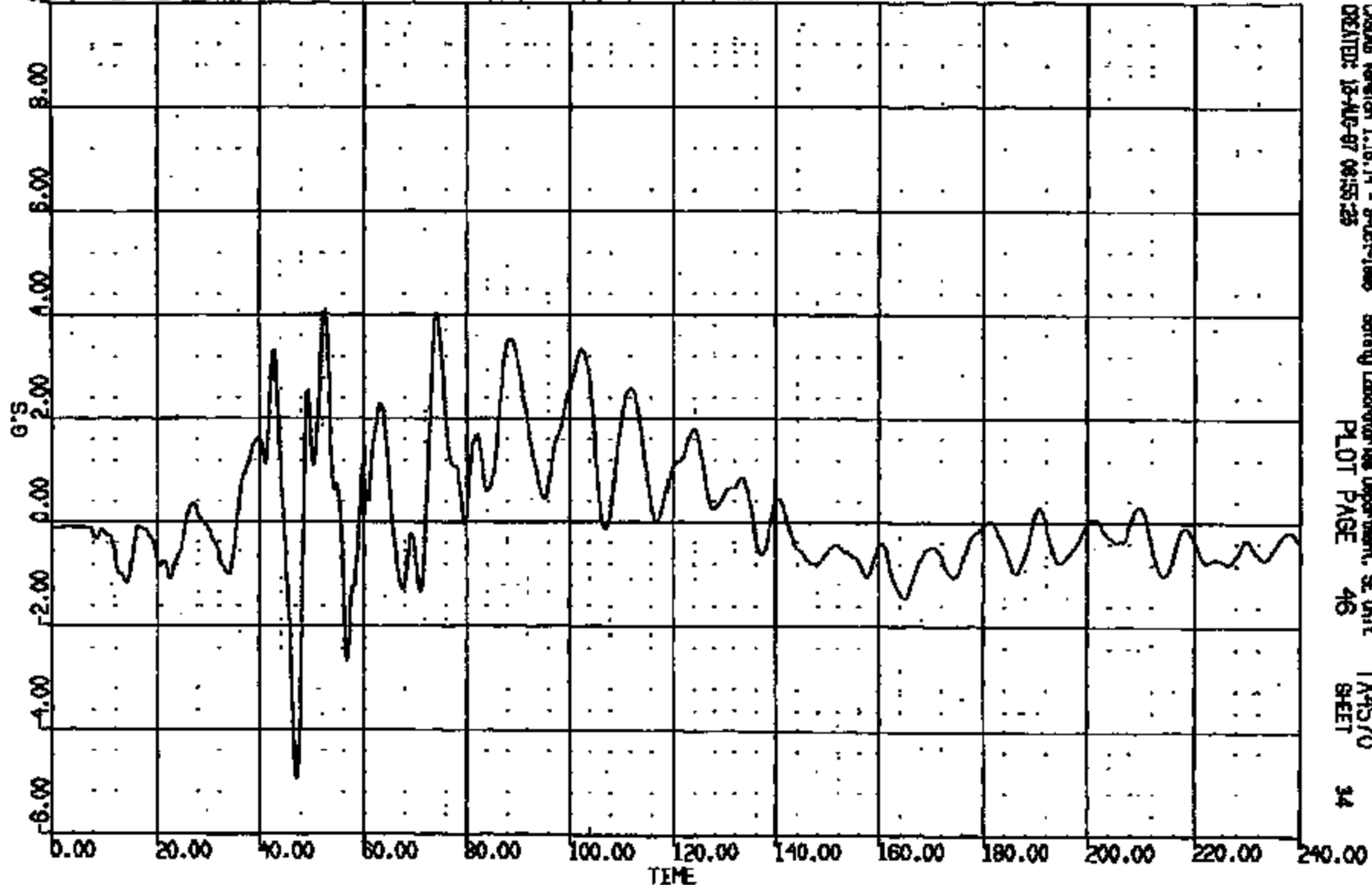
TA4570  
SHEET

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CRIS 0010797

CR R: 10797 TO: TA4570 DATE: 970813 08:50:55  
198X DN-101

(24) CR10797 C/L TNL BETWEEN F/SEATS SH LAT 60C  
MAX = 4.167 at 52.56 MS MIN = -4.984 at 47.12 MS AXIS 1



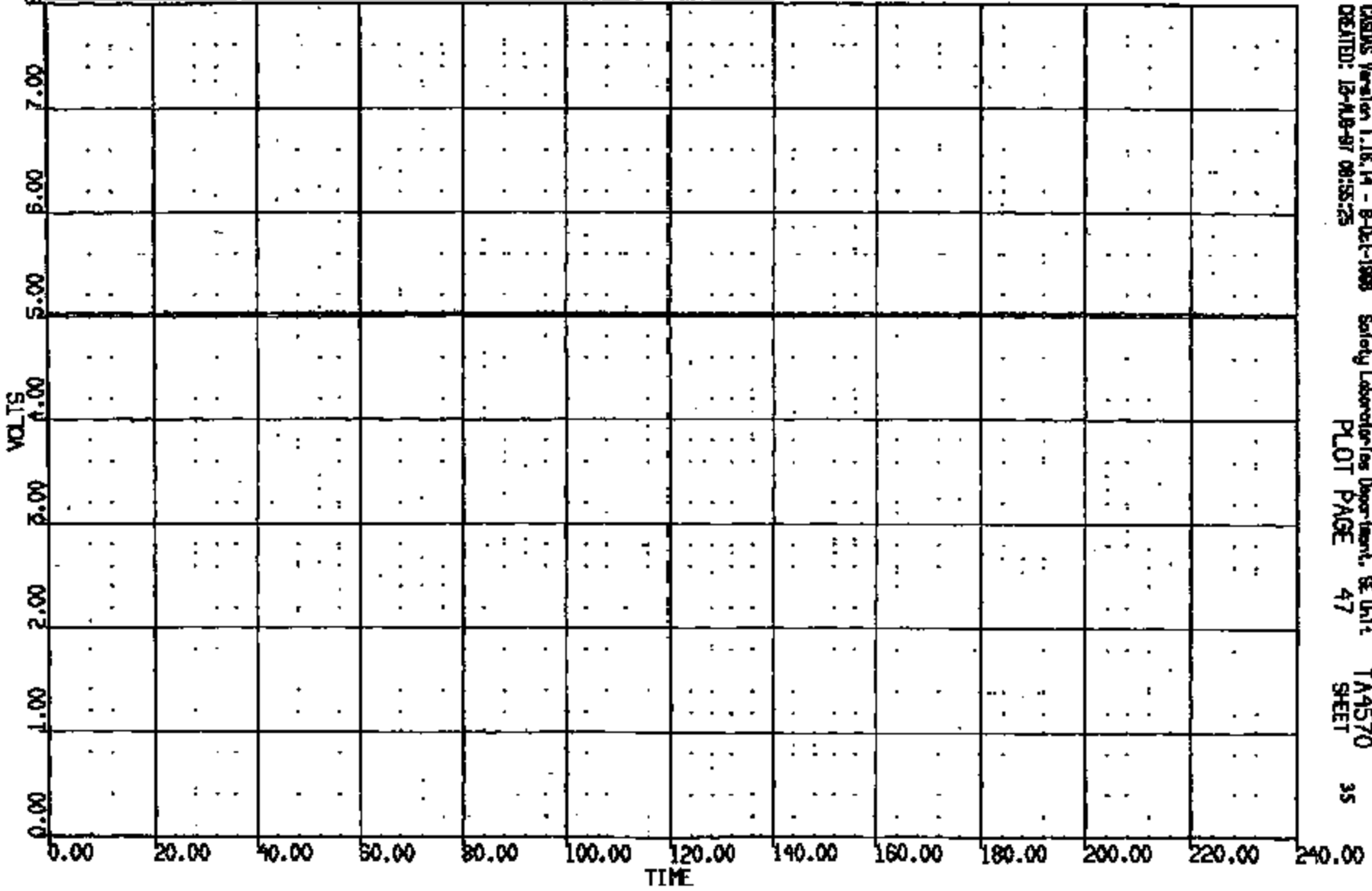
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CREATED: 15-AUG-97 08:55:25 PLOT PAGE 46 SHEET 34

CRTS 0010797

CR R: 10797 TO: TA4570 DATE: 970813 08:30:55  
100X DN-101

(25) CR10797T C/L TML BET F/SEATS AND TRI 4000C  
MAX = 5.044 at 22.32 MS MIN = 5.000 at 145.8 MS

AXIS 1



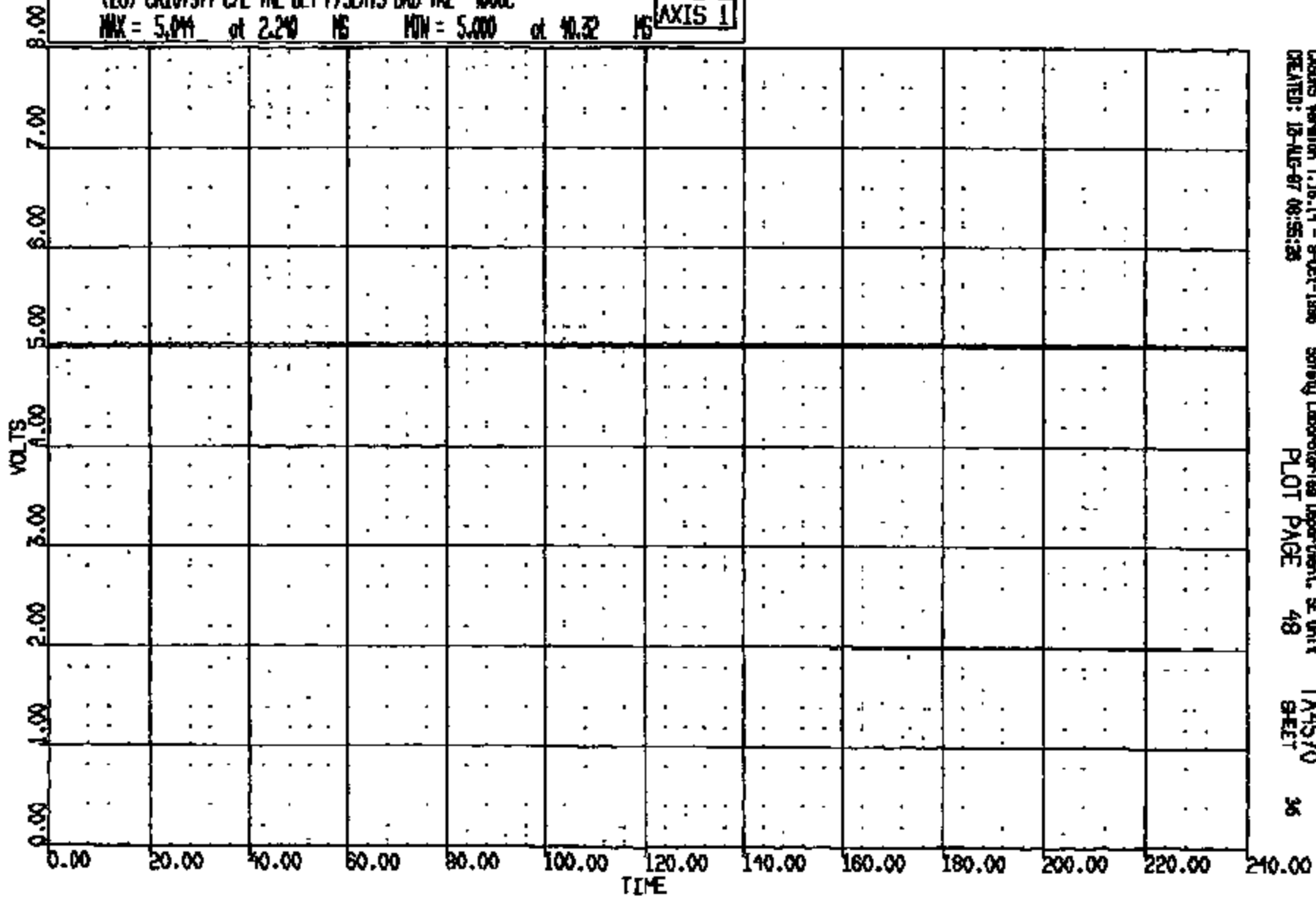
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CR10797

CR R: 10797 TO: TA4570 DATE: 970813 08:50:55  
198X DN-101

(26) CR107977 CAL TML BET F/SEATS BRO TR2 4000C  
MAX = 5.044 at 2.240 MS MIN = 5.000 at 40.32 MS

AXIS 1

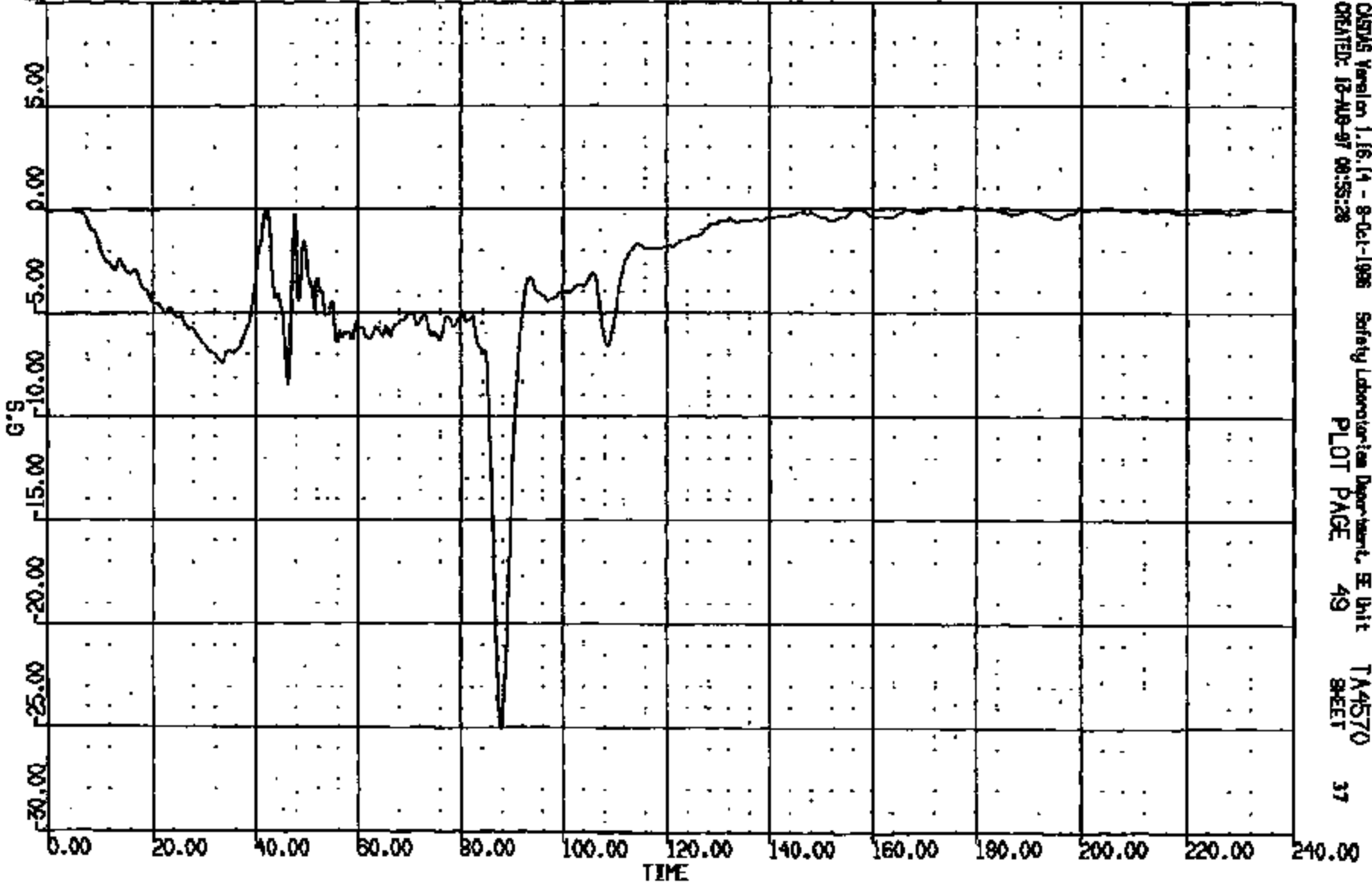


CRSRS Version 1.16.14 - 9-02-1988 Safety Laboratory Department, SE Unit TA4570  
CREATED: 13-AUG-87 08:55:28 PLOT PAGE 48 SHEET 36

CRTS 0010797

CR R: 10797 TO: TA4570 DATE: 970813 08:50:53  
189X DN-101

(27) CR107971 FMT XPR @ L/T SEAT C/L LONG GOC  
MAX = 0.985E-01 at 177.0 MS MIN = -25.02 at 87.00 MS **AXIS 1**

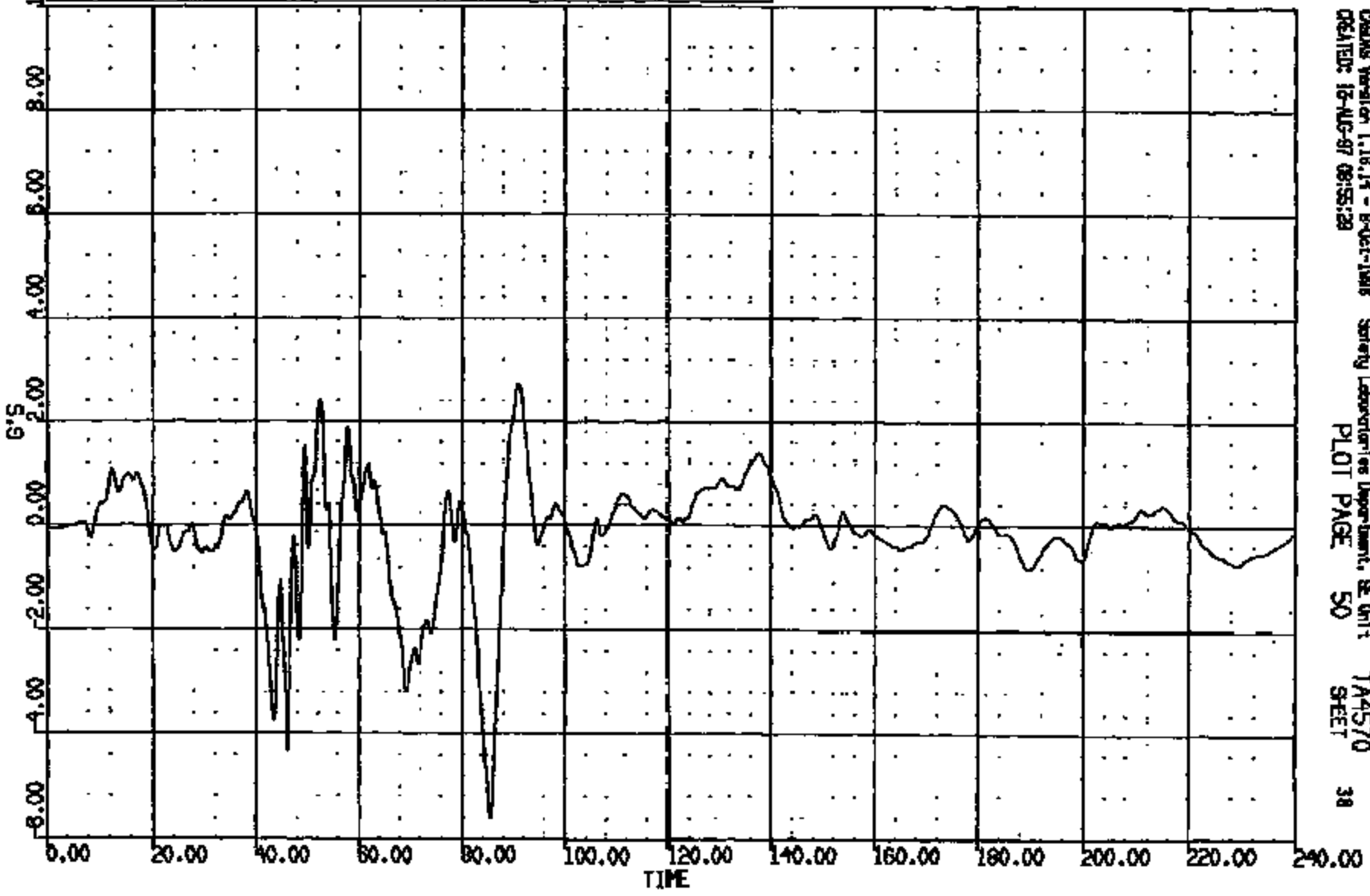


CRS/AS Version 1.16.14 - 8-Oct-1998 Safety Laboratory Department, E Unit TA4570  
CREATED: 13-AUG-97 08:55:28 PLOT PAGE 49 SHEET 37

CRTS 0010797

CR R: 10797 TO: TA4570 DATE: 870813 08:50:58  
198X DN-101

(28) CR10797 FMT XPR @ L/F SEAT C/L VERT GOC  
MAX = 2.726 at 91.09 MS MIN = -5.502 at 85.52 MS **AXIS 1**

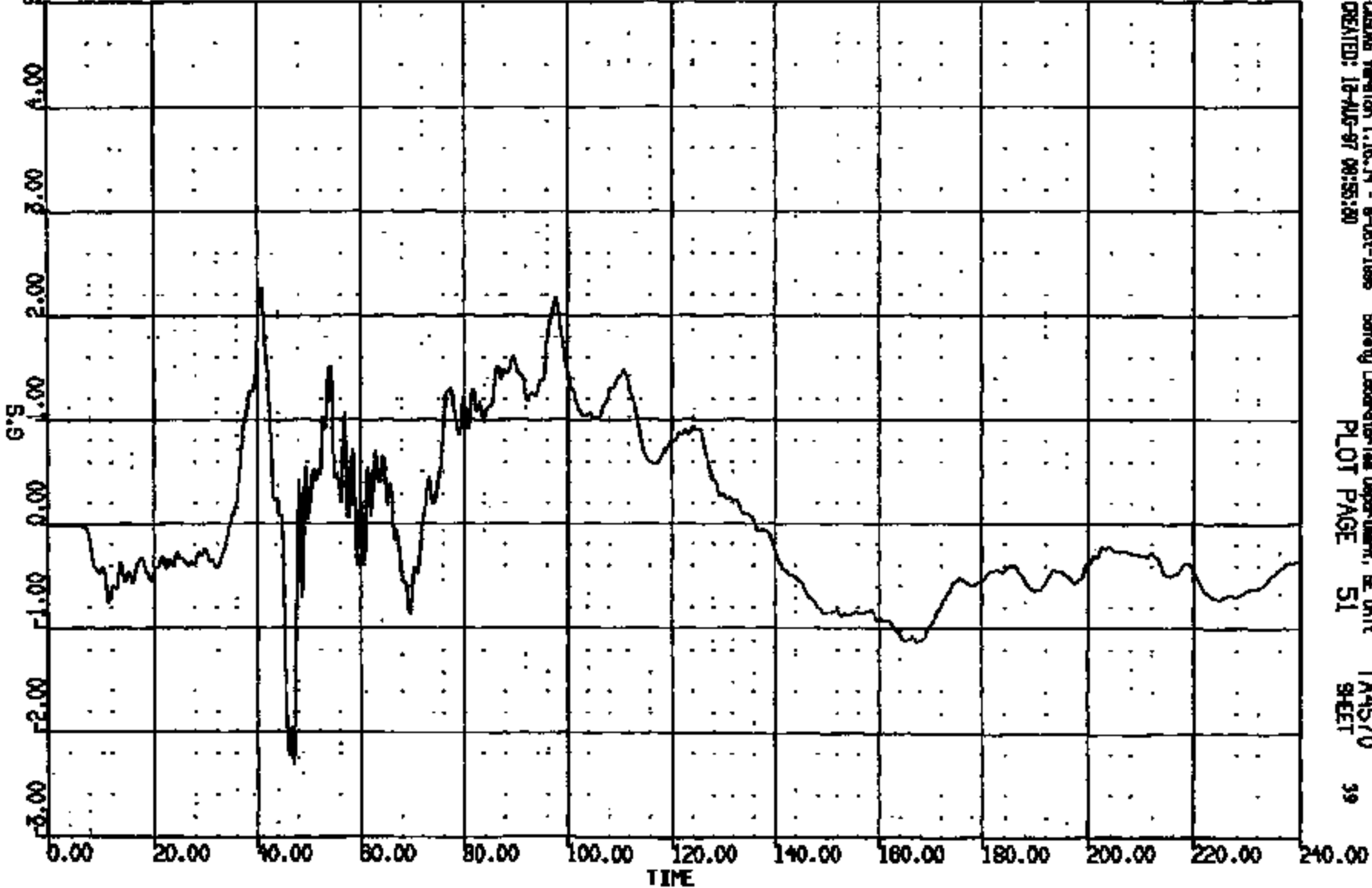


CASMS Version 1.18.14 - 8-Oct-1988 Safety Laboratories Department, SE Unit  
CREATED: 12-AUG-87 08:55:29 PLOT PAGE 50 TA4570  
SHEET 38

CRIS 0010797

CR R: 10797 TO: TA4570 DATE: 070818 08:30:55  
LOGX ON-101

(2) CR10797/1 FNT XPR @ L/F SEAT C/L LAT GDC  
MAX = 2.267 at 40.80 MS MIN = -2.308 at 47.01 MS **AXIS 1**



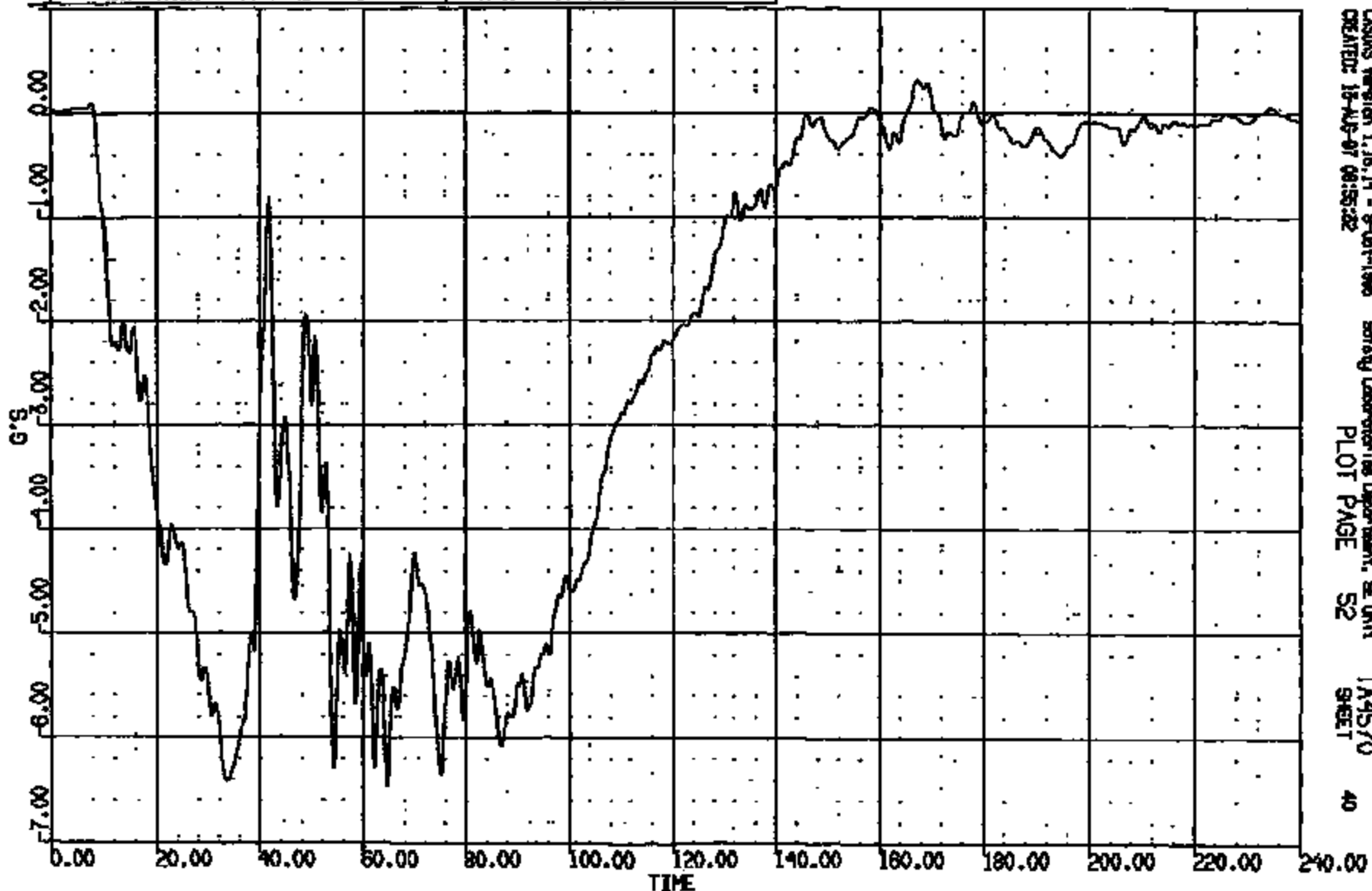
CRASH Version 1.18.14 - 8-Oct-1998 Safety Laboratory Department, BE Unit TA4570  
CREATED: 18-AUG-97 08:55:30 PLOT PAGE 51 SHEET 39

CRTS 0010797



CR #: 10797 TO: TA4570 DATE: 870813 08:50:55  
199X DN-101

(30) CR107971 FMT XMR @ R/F SEAT C/L LONG 60C  
MAX = 0.3188 at 167.2 NS MIN = -6.465 at 61.72 NS **AXIS 1**

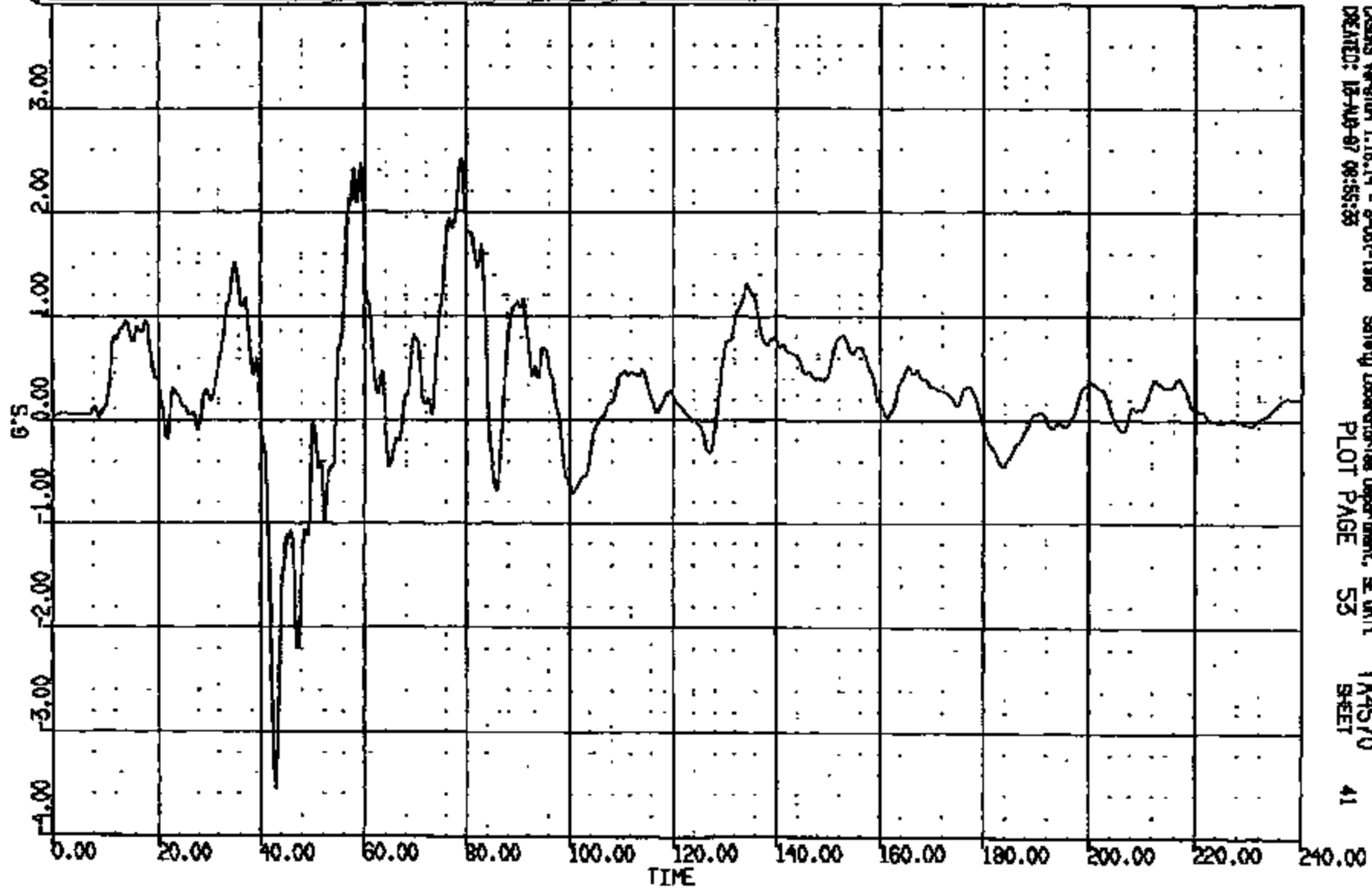


CASUS Version 1.18.14 - 9-Oct-1998 Safety Laboratories Department, SE Unit TA4570 40  
CREATED: 18-AUG-87 08:55:32 PLOT PAGE 52 SHEET

CRTS 0010797

CR# = 10797 TO: TA4570 DATE: 970813 08:50:55  
100X DN-101

(51) CR10797/FNT XNR @ R/F SEAT CAL VERT GOC  
MAX = 2.506 at 79.09 MS MIN = -3.511 at 12.95 MS **AXIS 1**

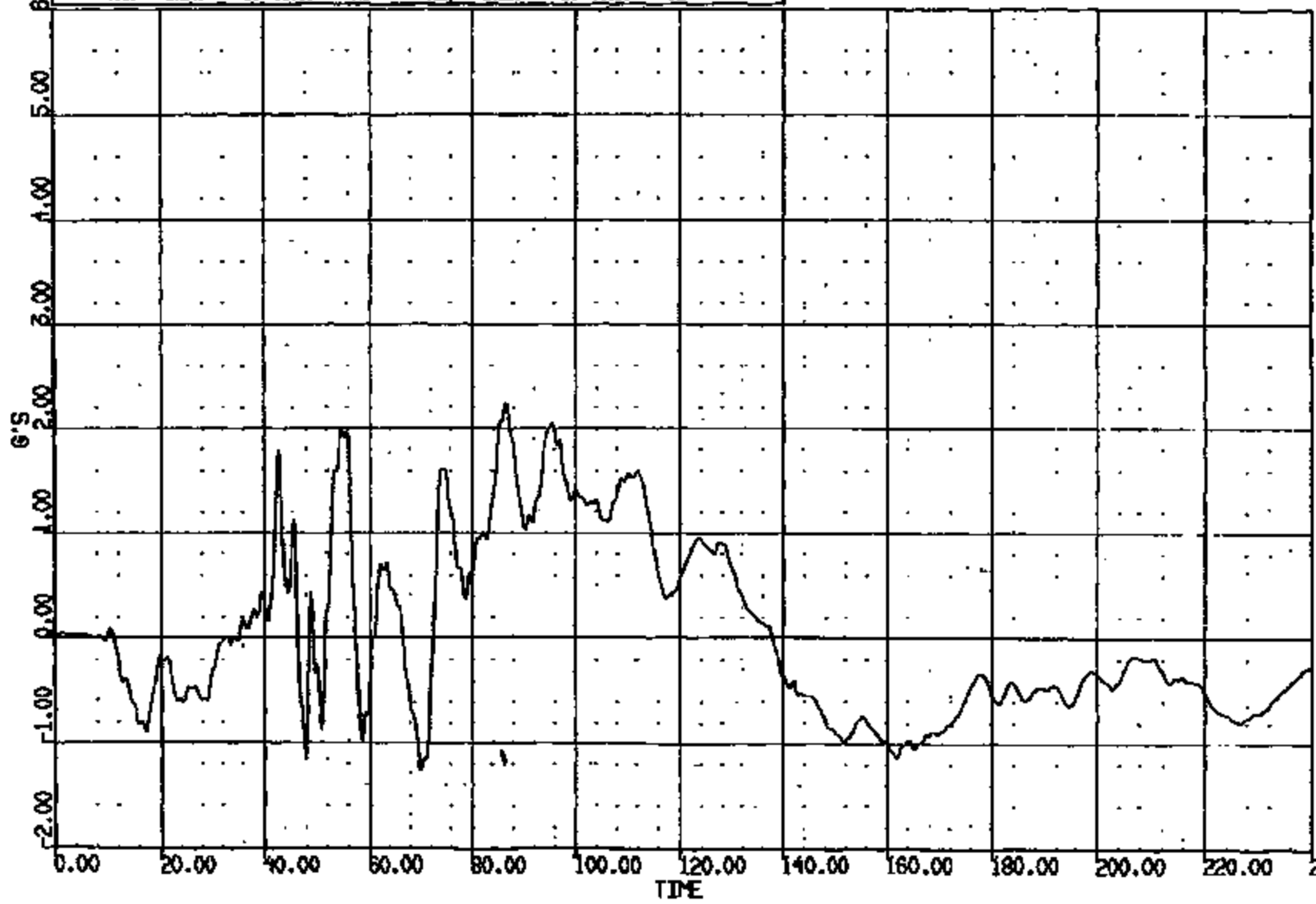


CRSAS Version 1.16.14 - 9-06-1995 Safety Laboratories Department, SE Unit  
TA4570 41  
PLOT PAGE 53 SHEET  
CREATED: 12-AUG-97 08:55:55

CRIS 0010797

CR R: 10797 TO: TA4570 DATE: 970818 08:50:55  
100X DN-101

(32) CR107977 FNT XMR @ R/F SEAT CAL LAT 60C  
MAX = 2.240 at 06.56 NS MIN = -1.288 at 70.00 NS **AXIS 1**

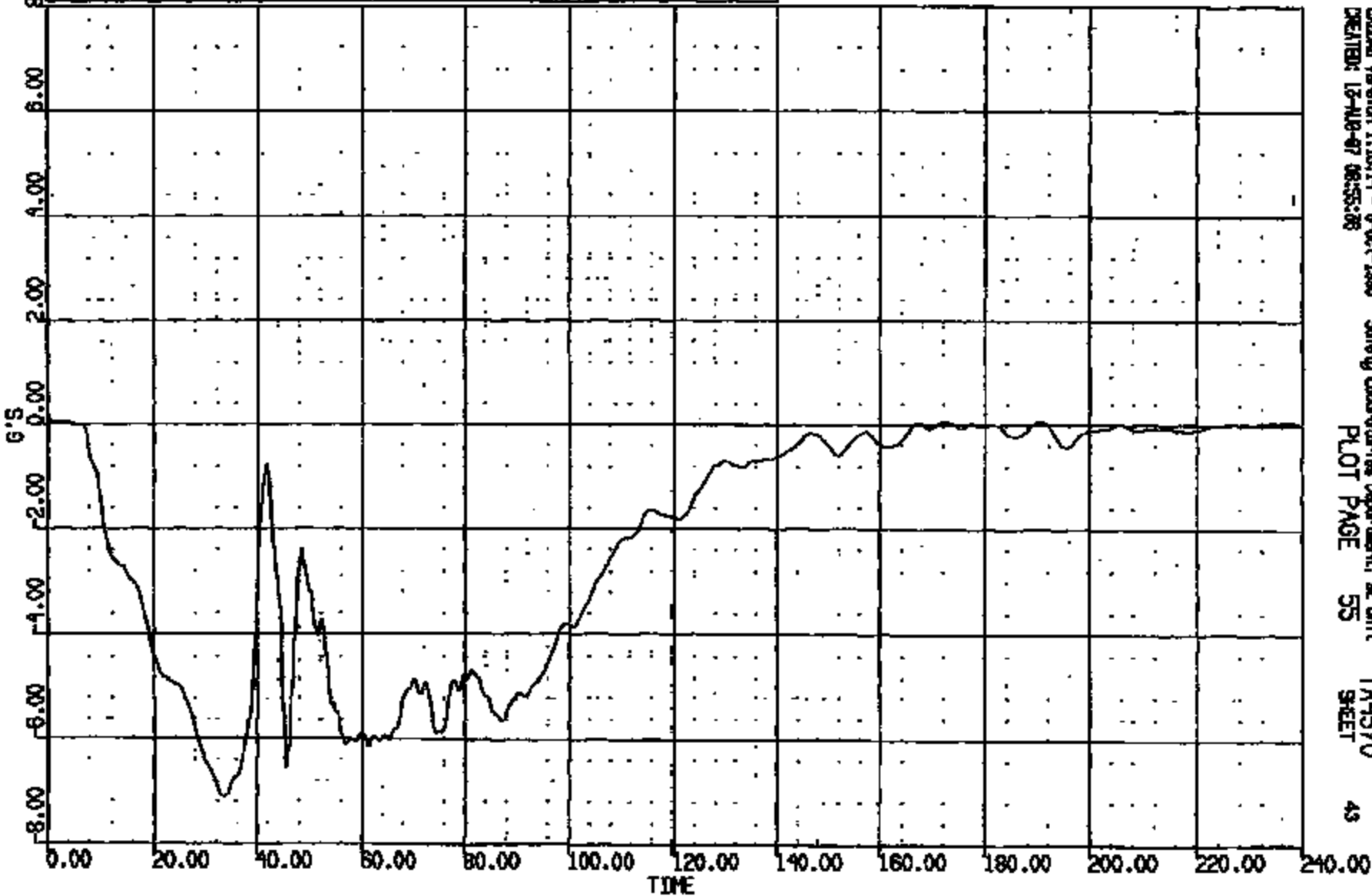


GENES Version 1.18.14 - 8-01-1998 Safety Laboratories Department, SE Unit  
CREATED: 18-AUG-97 08:55:04 PLOT PAGE 54 TA4570 SHEET 42

CRIS 0010797

CR R: 10797 TO: TA4570 DATE: 970815 08:50:55  
199X DN-101

(33) CR10/97T REAR INER @ L/R SEAT CAL SH LONG GOC  
MAX = 0.8025E-01 at 190.6 MS MIN = -7.120 at 33.28 MS **AXIS 1**



CHENE Version 1.18.14 - 8-04-1998 Safety Laboratories Department, SE Unit TA4570  
CREATED: 12-11-97 08:55:08 PLOT PAGE 55 SHEET 49

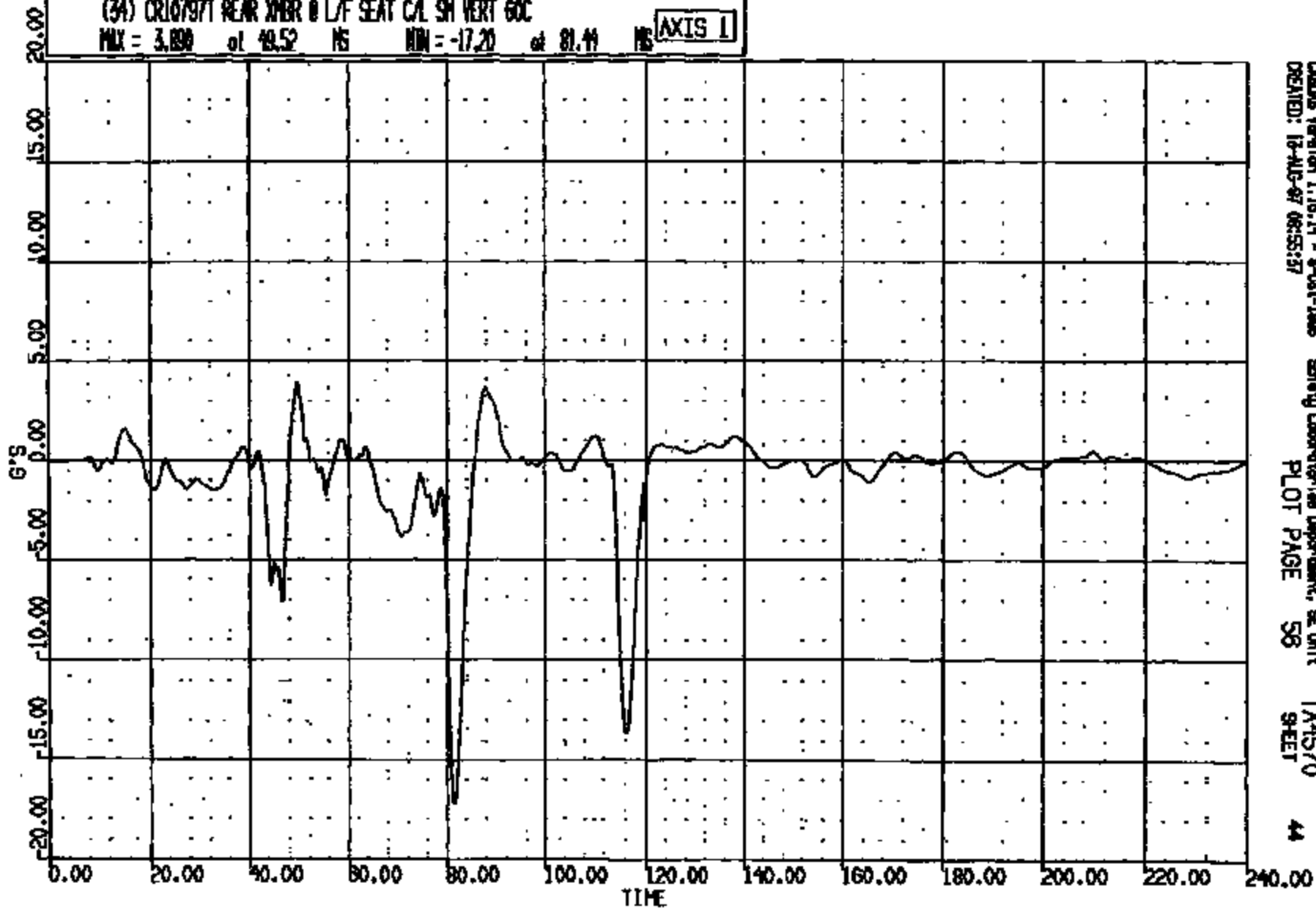
CRTS 0010797

CR N: 10797 TO: TA4570 DATE: 970813 08:50:55  
199X DN-101

(34) CR107971 REAR XMR @ L/F SEAT CAL SH VERT GDC

MAX = 3.890 at 49.52 MS MIN = -17.20 at 81.44 MS

AXIS 1



CAEUS Version 1.18.14 - 9-04-1998  
CREATED: 12-AUG-97 08:55:57

Safety Laboratories Department, SE Unit  
PLOT PAGE 56

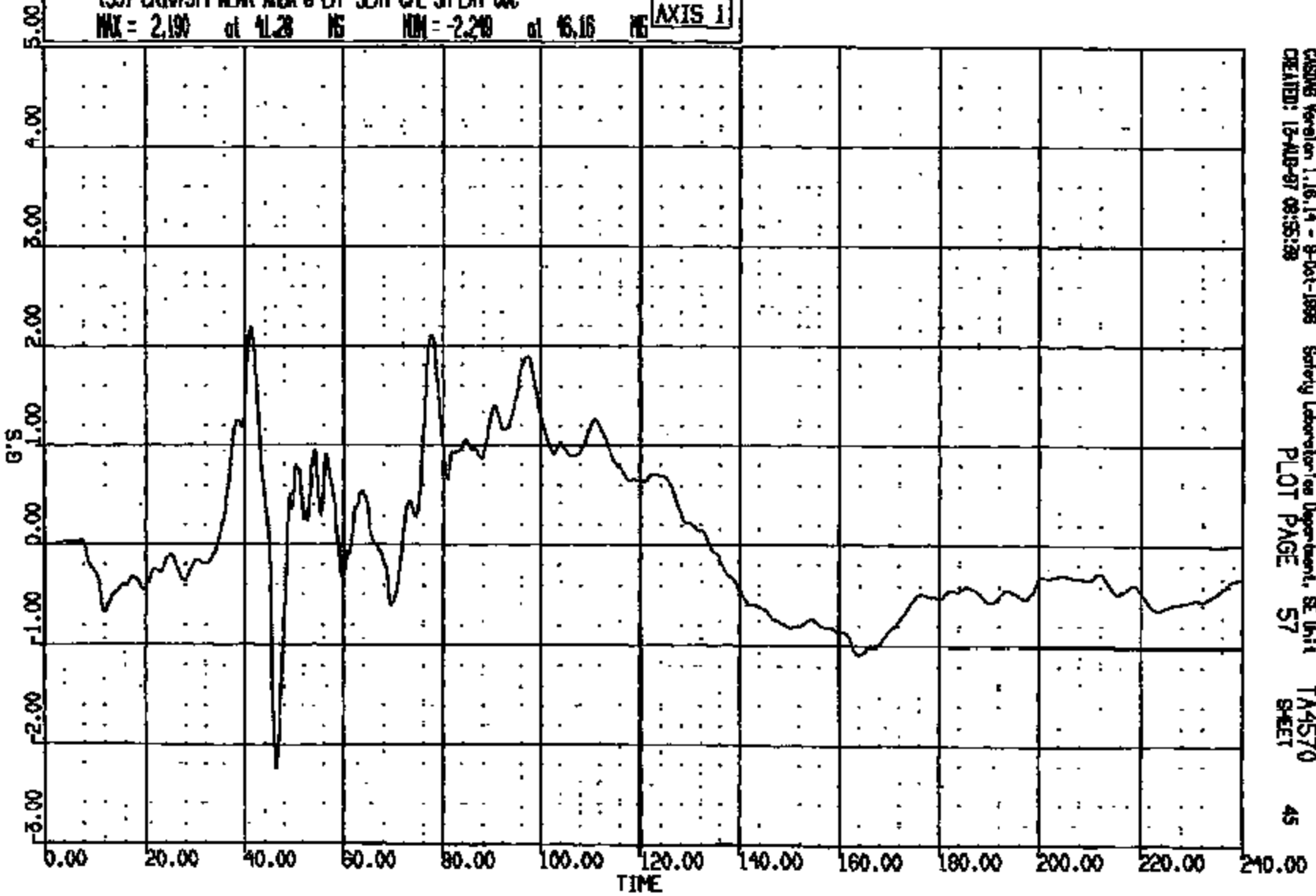
TA4570  
SHEET

44

CRTS 0010797

CR R: 10797 TO: TA4570 DATE: 970813 08:30:55  
199X DN-101

(35) CR10797T NEAR XMR @ L/R SEAT CAL SH LAT GFC  
MAX = 2.190 at 41.28 MS MIN = -2.240 at 46.16 MS **AXIS 1**

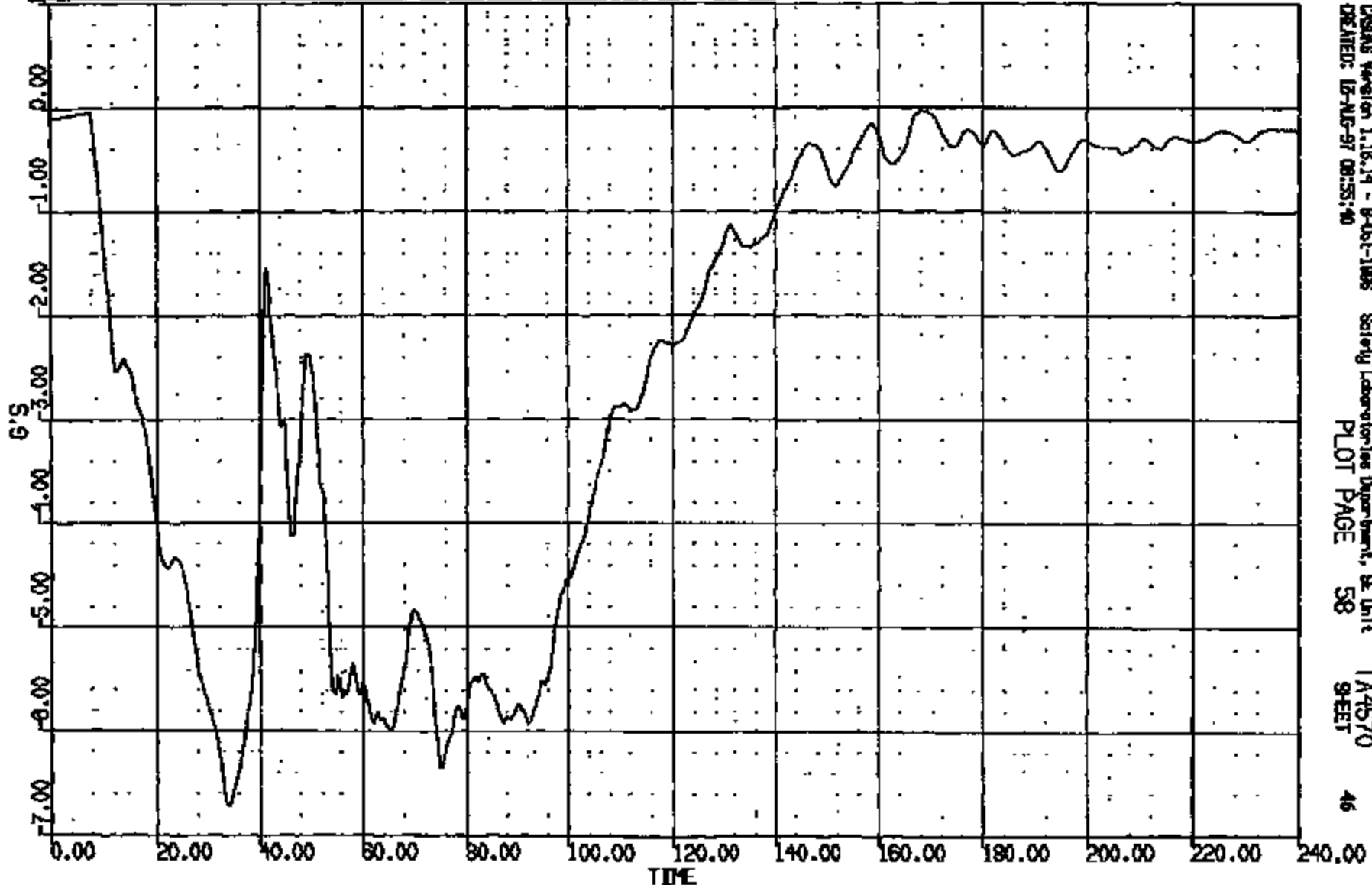


CASING Version 1.16.14 - 9-Oct-1998 Safety Laboratories Department, SE Unit TA4570  
CREATED: 12-AUG-97 08:55:28 PLOT PAGE 57 SHEET 45

CRTS 0010797

CR R: 10797 TO: TA4570 DATE: 870818 08:50:55  
198X DN-101

(35) CR107977 REAR X/R @ R/F SEAT C/L SN LONG 60C  
MAX = -.320E-01 at 188.2 MS MIN = -6.727 at 34.08 MS **AXIS 1**

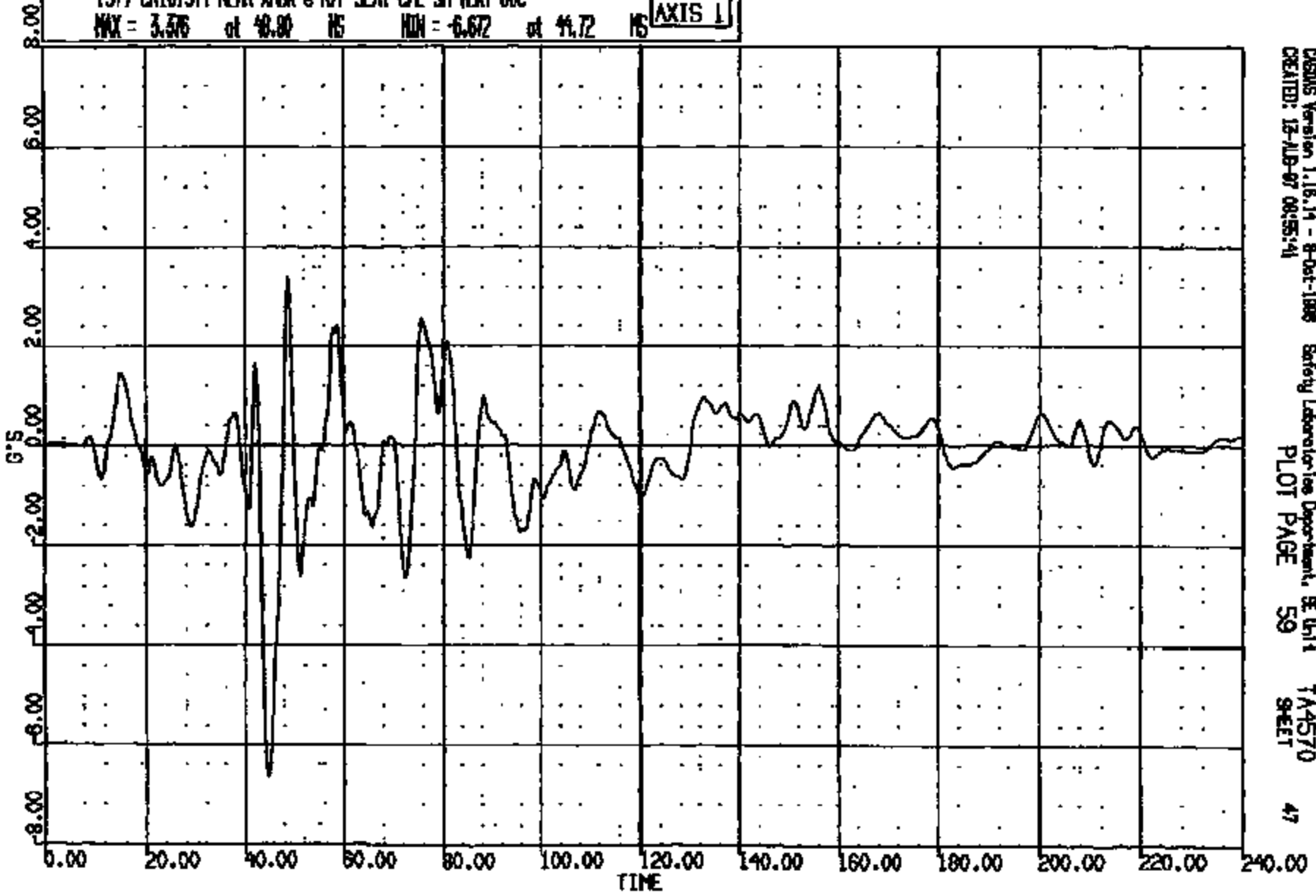


CRSAB Version 1.18.14 - 8-Oct-1986 Safety Laboratories Department, SE Unit  
CREATED: 12-MAR-97 08:55:40  
PLOT PAGE 58 SHEET 46

CRIS 0010797

CR #: 10797 TO: TA4570 DATE: 970813 08:30:55  
189X DN-101

(37) CR10797T REAR XMR @ R/F SEAT CAL SH VERT GDC  
MAX = 3.576 at 48.80 MS MIN = -6.672 at 44.72 MS **AXIS 1**



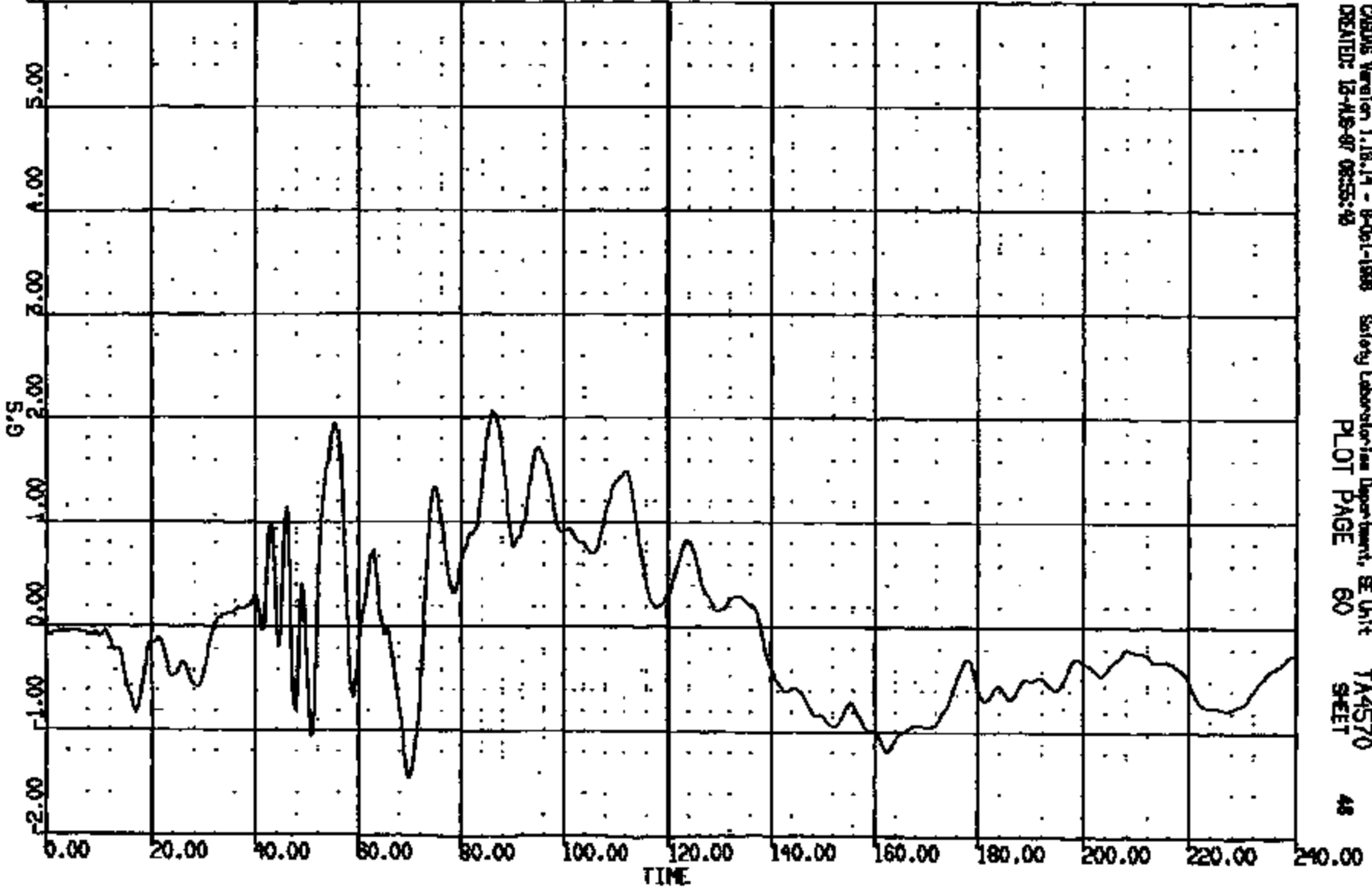
CASIMS Version 1.16.14 - 8-Oct-1996 Safety Laboratory Department, SE Unit  
CREATED: 15-AUG-97 08:55:41 PLOT PAGE 59 TA4570  
47

CRTS 0010797



CR #: 10797 TO: TA4570 DATE: 870813 08:50:55  
18EX DN-101

(38) CR10797T REAR XMR @ R/F SEAT CAL SH LAT 60C  
MAX = 2.064 at 66.21 MS MIN = -1.467 at 69.91 MS **AXIS 1**

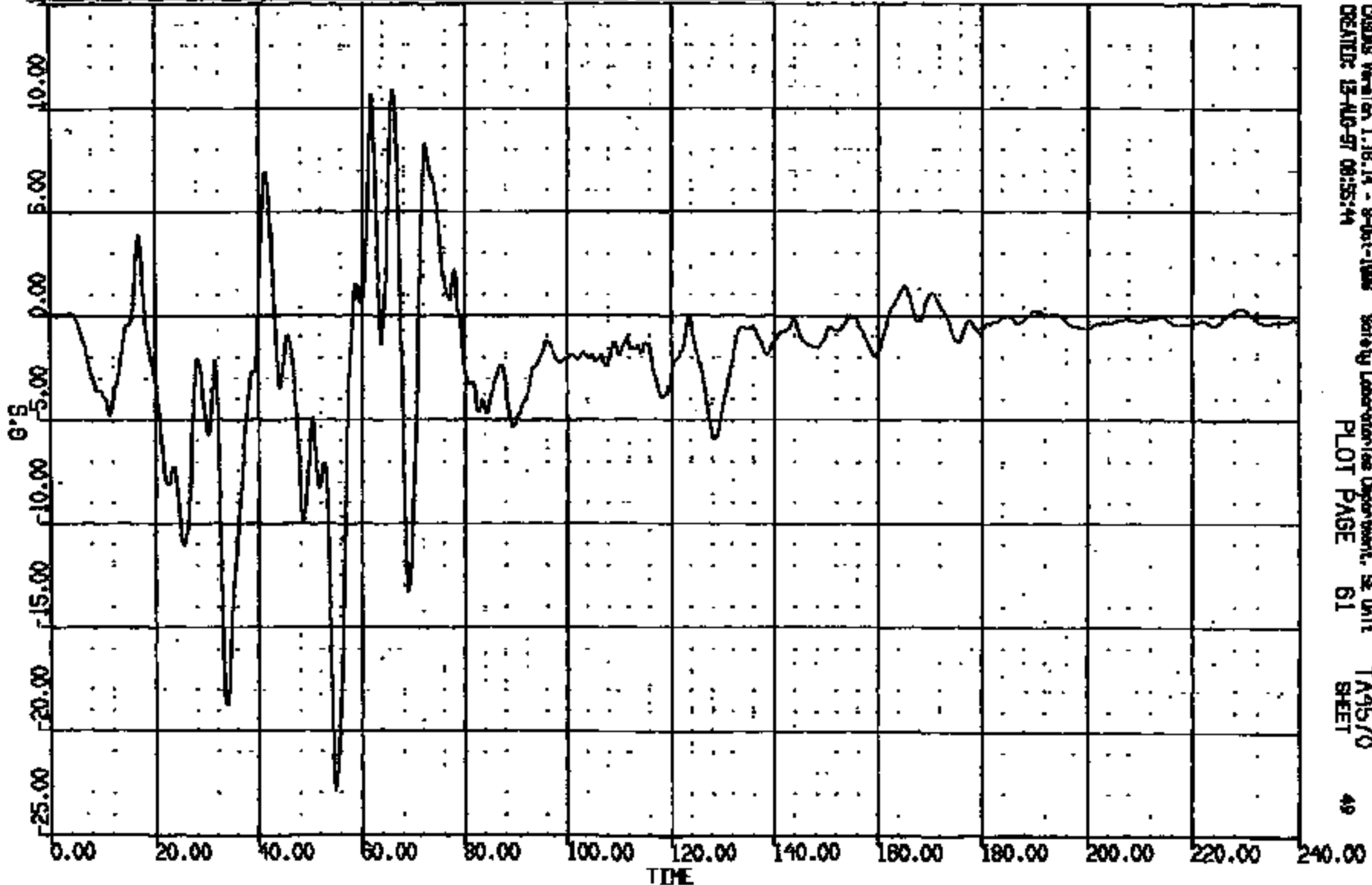


CRSUS Version 1.18.14 - 8-Oct-1988 Safety Laboratory Department, SE Unit TA4570  
CREATED: 12-AUG-87 08:55:42 PLOT PAGE 60 SHEET 48

CRTS 0010797

CR R: 10797 TO: TA4870 DATE: 970818 08:30:55  
199X DN-101

(39) CR10/SPT C/RND UP FRT SM LONG 60C  
MAX = 10.82 at 66.98 MS MIN = -22.89 at 51.98 MS **AXIS 1**

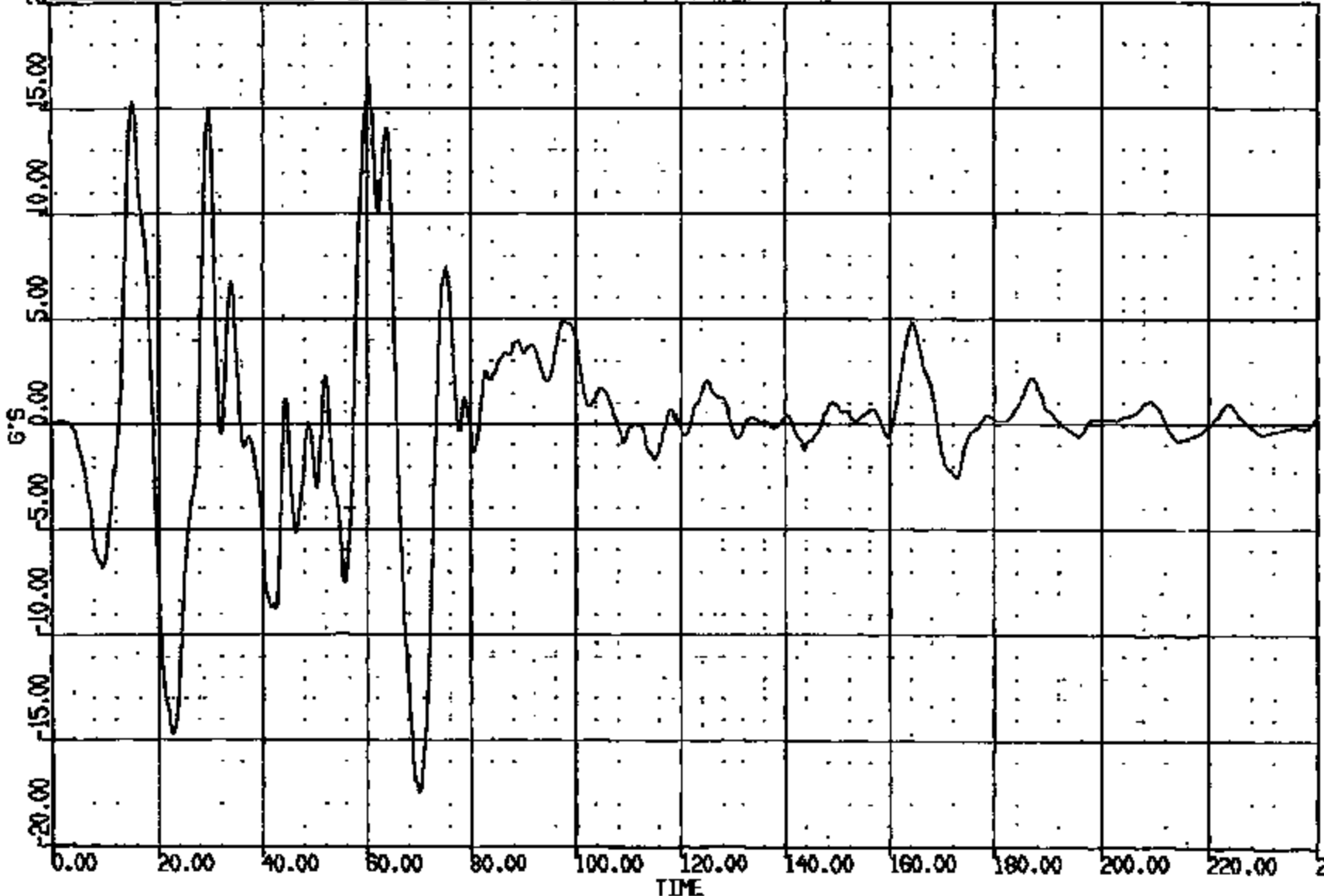


CSDAS Version 1.18.14 - 8-01-1998 Safety Laboratories Department, SE Unit  
CREATED: 12-AUG-97 08:55:44 PLOT PAGE 61 TA4870 49  
SHEET

CRTS 0010797

CR #: 10797 TO: TA4570 DATE: 970813 08:30:35  
188X DN-101

(40) CRUD/SWT C/RAD UP FRT SN VERT 60C  
MAX = 16.38 at 60.16 NS MIN = -17.47 at 70.00 NS **AXIS 1**



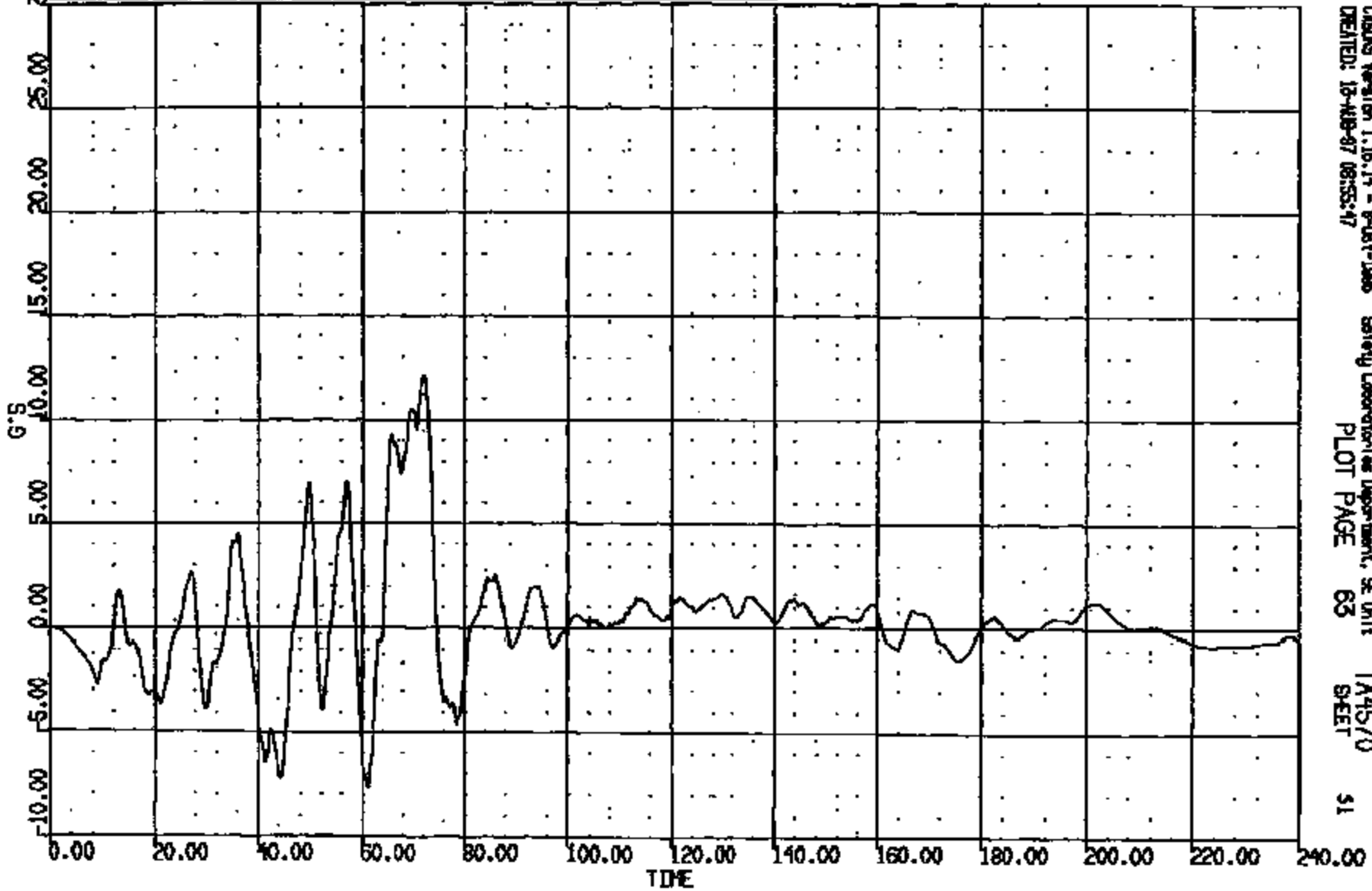
CASMS Version 1.18.14 - B-0-t-1808 Safety Laboratories Department, E Unit TA4570  
CREATED: 13-AUG-97 08:35:45 PLOT PAGE 62 SHEET 50

CRTS 0010797

CR R: 10797 TO: TA4570 DATE: 870813 08:30:55  
199X DN-101

(41) CR0797T C/RAD UP FRT SH LAT 60C  
MAX = 12.89 at 72.16 NS MIN = -7.701 at 61.04 NS

AXIS 1



CRS05 Version 1.16.14 - 8-Oct-1986 Safety Laboratory Department, SE Unit TA4570  
CREATED: 12-AUG-87 08:55:47 PLOT PAGE 63 SHEET 51

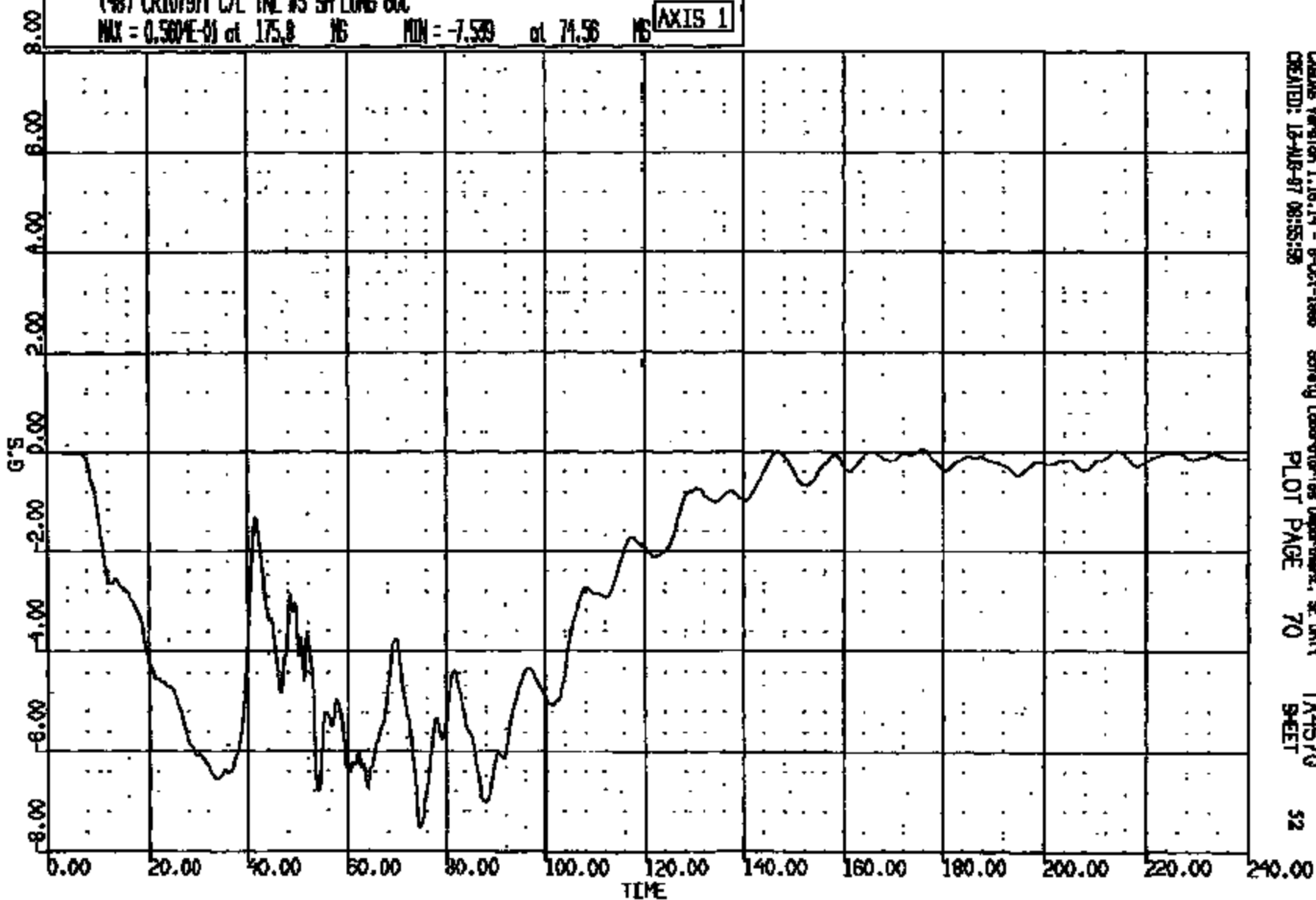
CRIS 0010797

CR R: 10797 TO: TA4570 DATE: 970818 08:20:55  
199X DN-101

(48) CR10797 C/L TNL #5 SH LONG 60C

MAX = 0.50E-01 at 175.8 MS MIN = -7.509 at 71.56 MS

AXIS 1



CHANGE Version 1.16.14 - 8-Oct-1998  
CREATED: 12-AUG-97 08:55:59

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SHEET

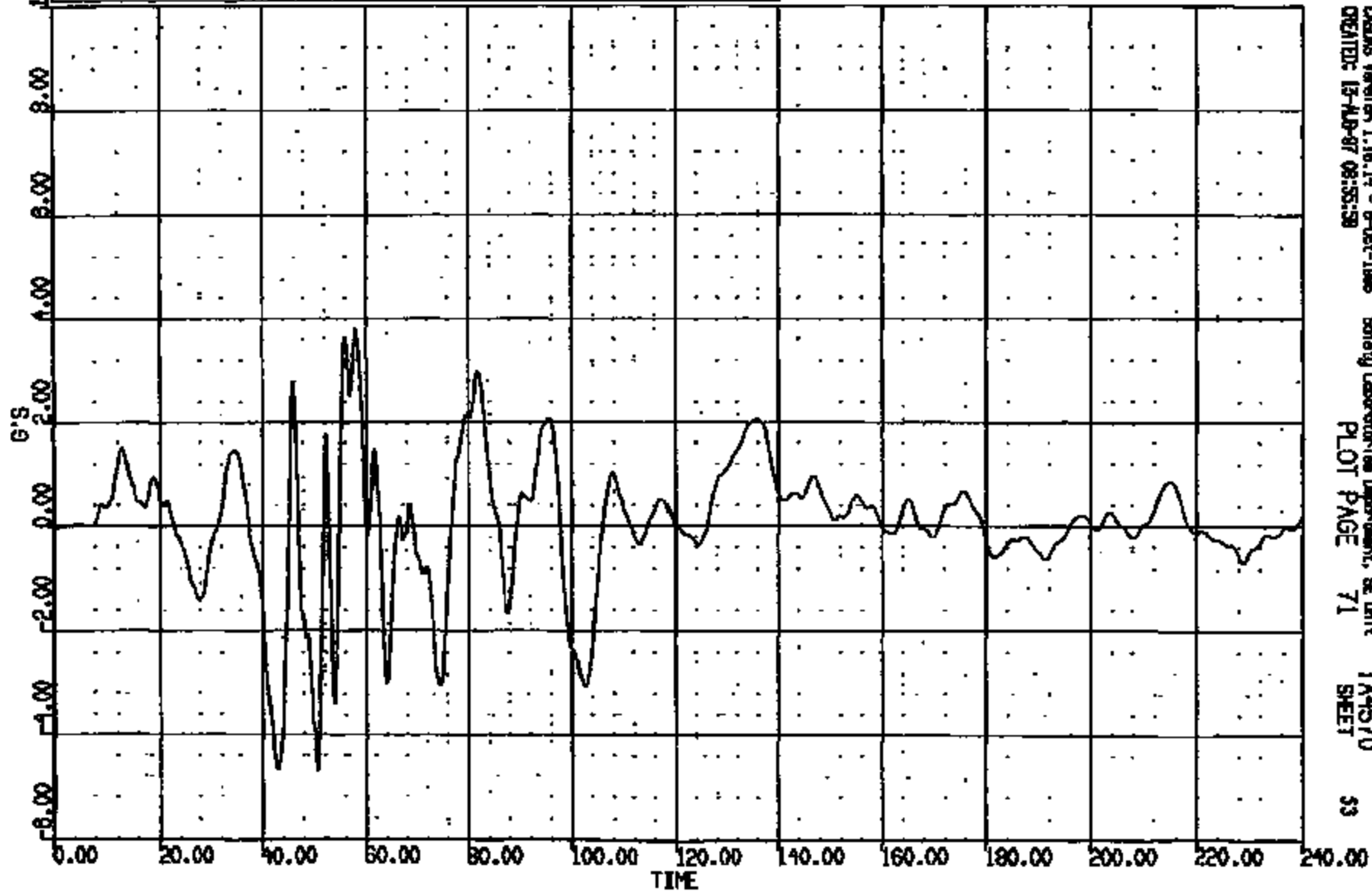
52

CRTS 0010797

CR R: 10797 TO: TA4570 DATE: 870818 08:30:58  
199X DN-101

(49) CR107971 CAL TML #5 SH VERT 60C  
MAX = 3.004 at 58.16 NS MIN = -4.722 at 50.72 NS

AXIS 1

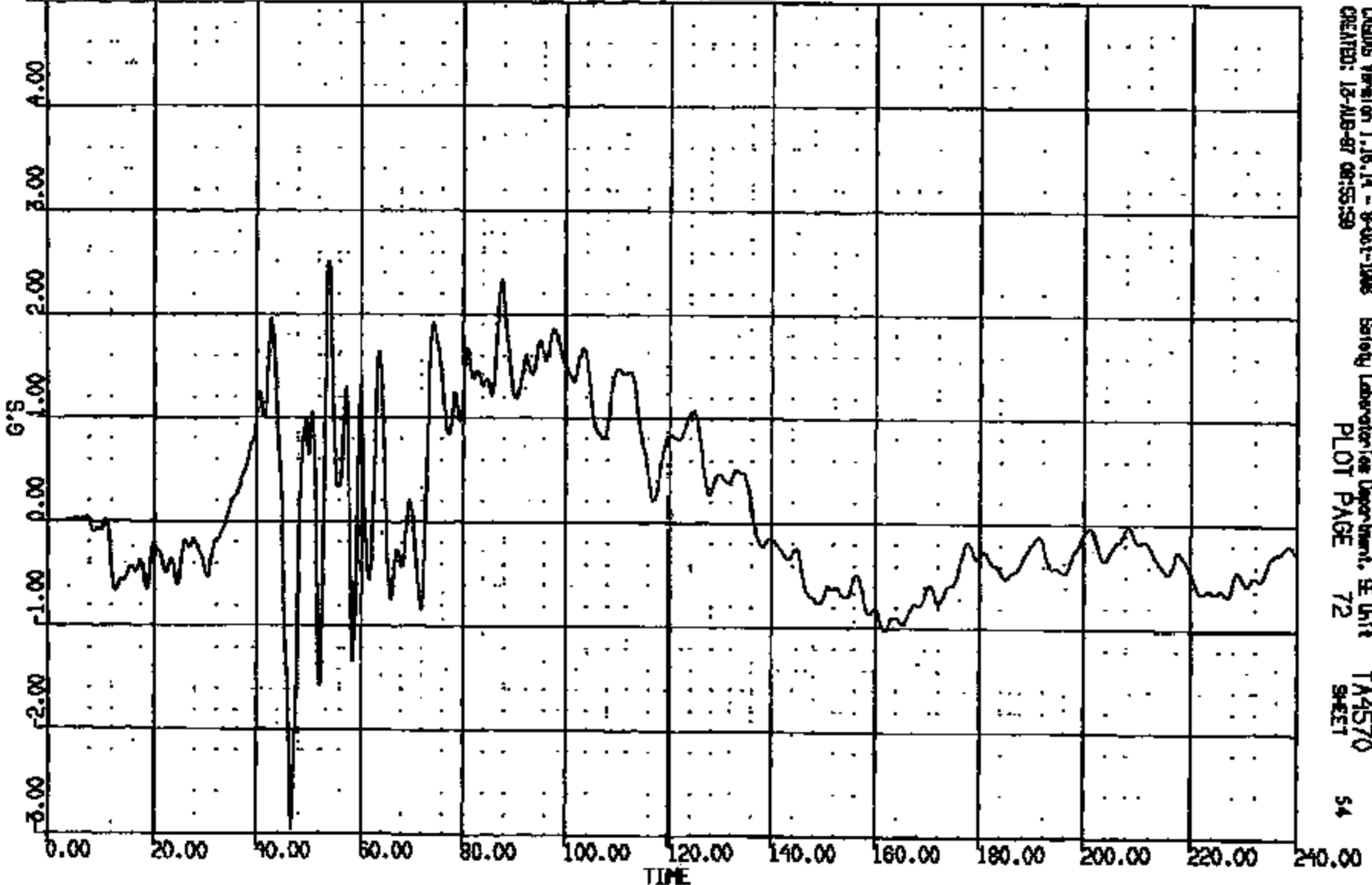


CRSAMS Version 1.16.14 - B-Oct-1986 Safety Laboratories Department, SE Unit TA4570  
CREATED: 15-AUG-87 08:55:58 PLOT PAGE 71 SHEET 53

CRTS 0010797

CR NR = 10797 TO: TA4570 DATE: 970813 08:30:55  
199X DN-101

(50) CR10797T C/L TNL #5 SH LAT 60C  
MAX = 2.511 at 54.00 MS MIN = -2.943 at 46.61 MS **AXIS 1**

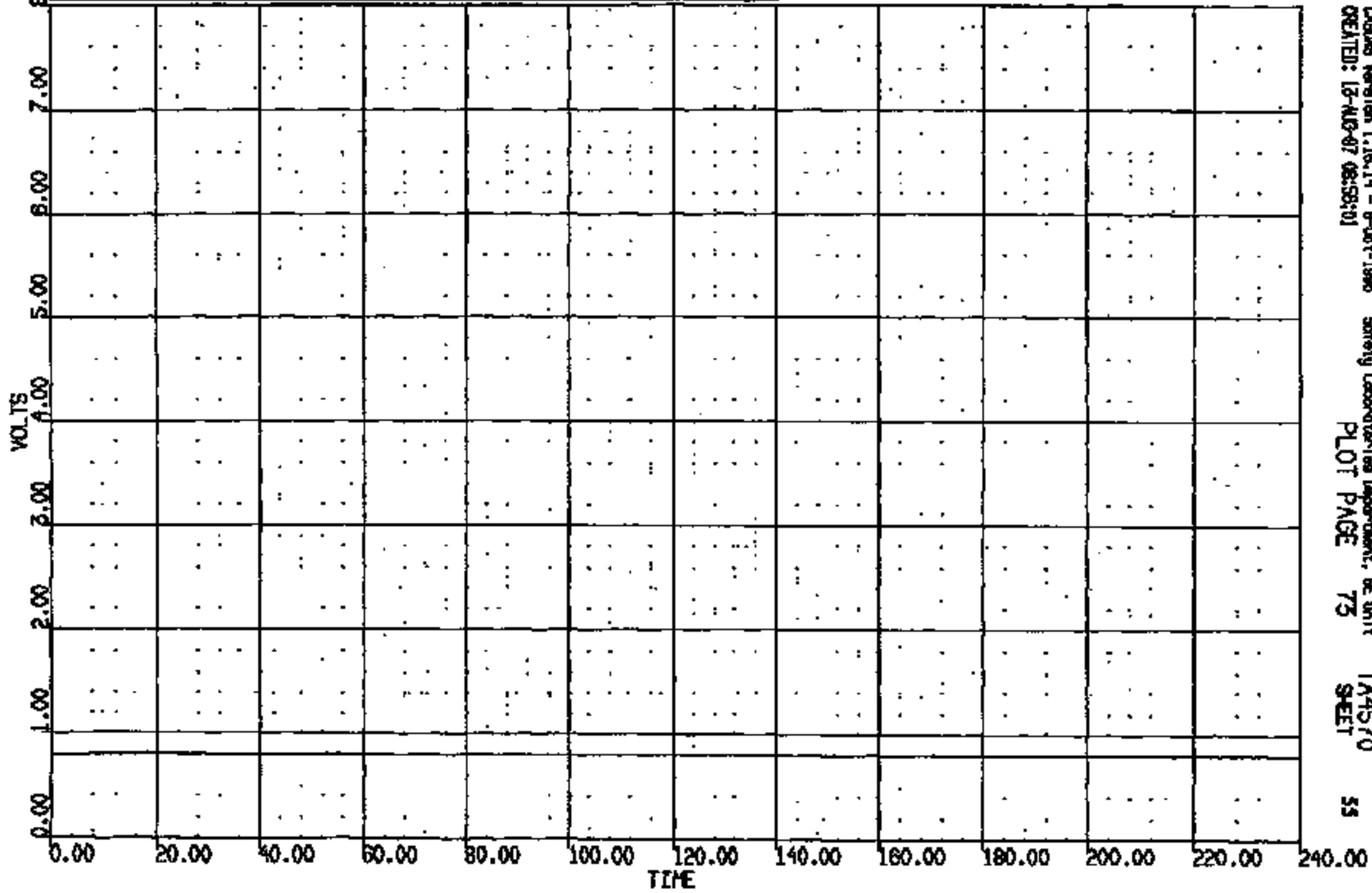


CRSUS Version 1.16.14 - 9-04-1998 Safety Laboratories Department, SE Unit  
CREATED: 12-AUG-97 08:55:59 PLOT PAGE 72 TA4570  
SHEET 54

CRIS 0010797

CR R: 10797 TO: TA4570 DATE: 870813 08:50:55  
199X DN-101

(51) CR10797T C/L TML #5 BOSCH AML 4000C  
MAX = 0.8057 at 7.360 MS MIN = 0.7369 at 0.4800 MS **AXIS 1**



CRS/MS Version 1.16.14 - 8-Oct-1988  
CREATED: 12-AUG-87 08:58:01

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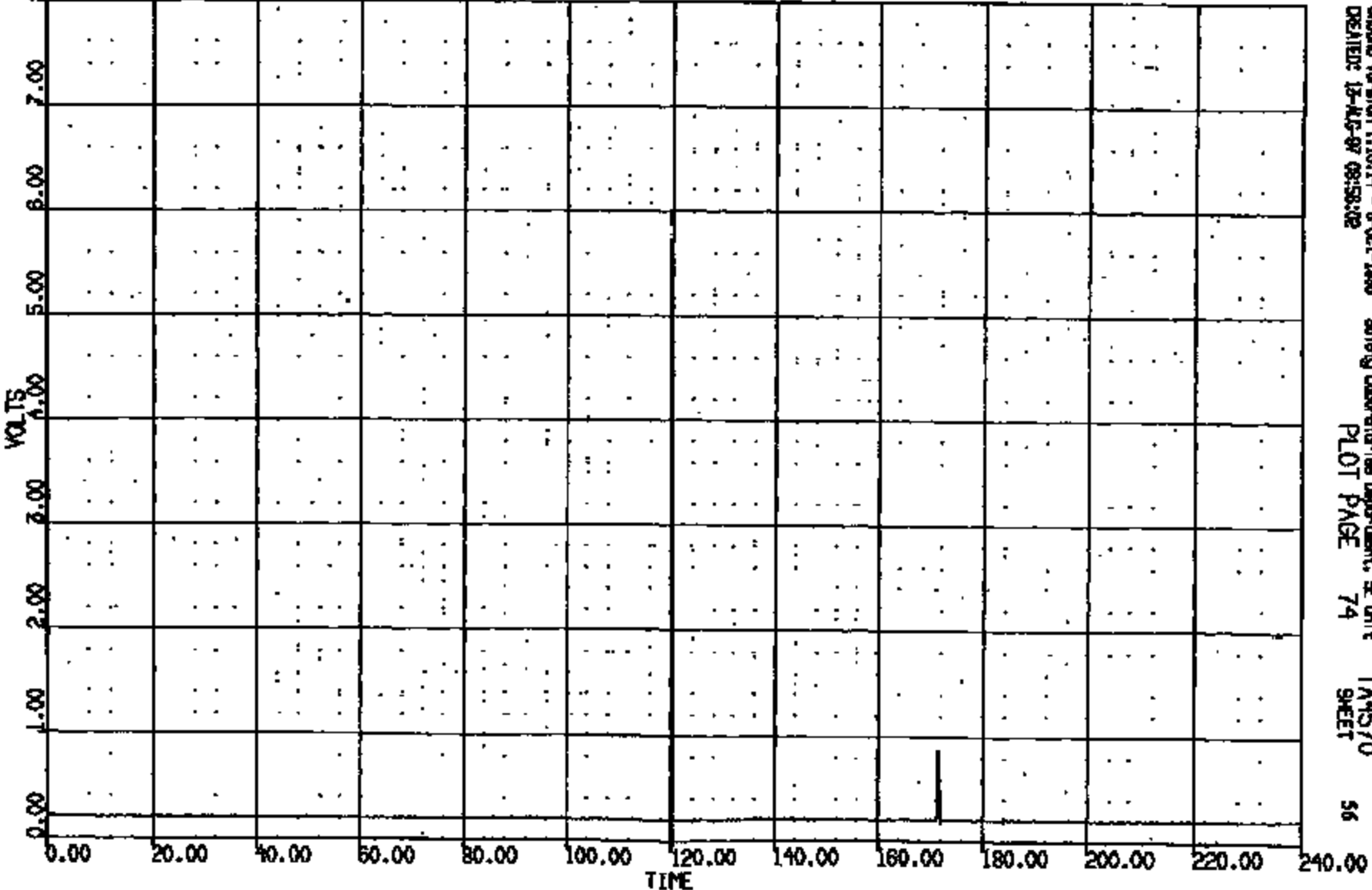
55

CRTS 0010797



CR R: 10797 TO: TA4570 DATE: 270813 08:50:55  
100X DN-101

(S2) CR10797 C/L TML #5 BOSCH FAD 400C  
MAX = 0.8789 at 171.5 MS MIN = 0.1660 at 171.9 MS **AXIS 1**



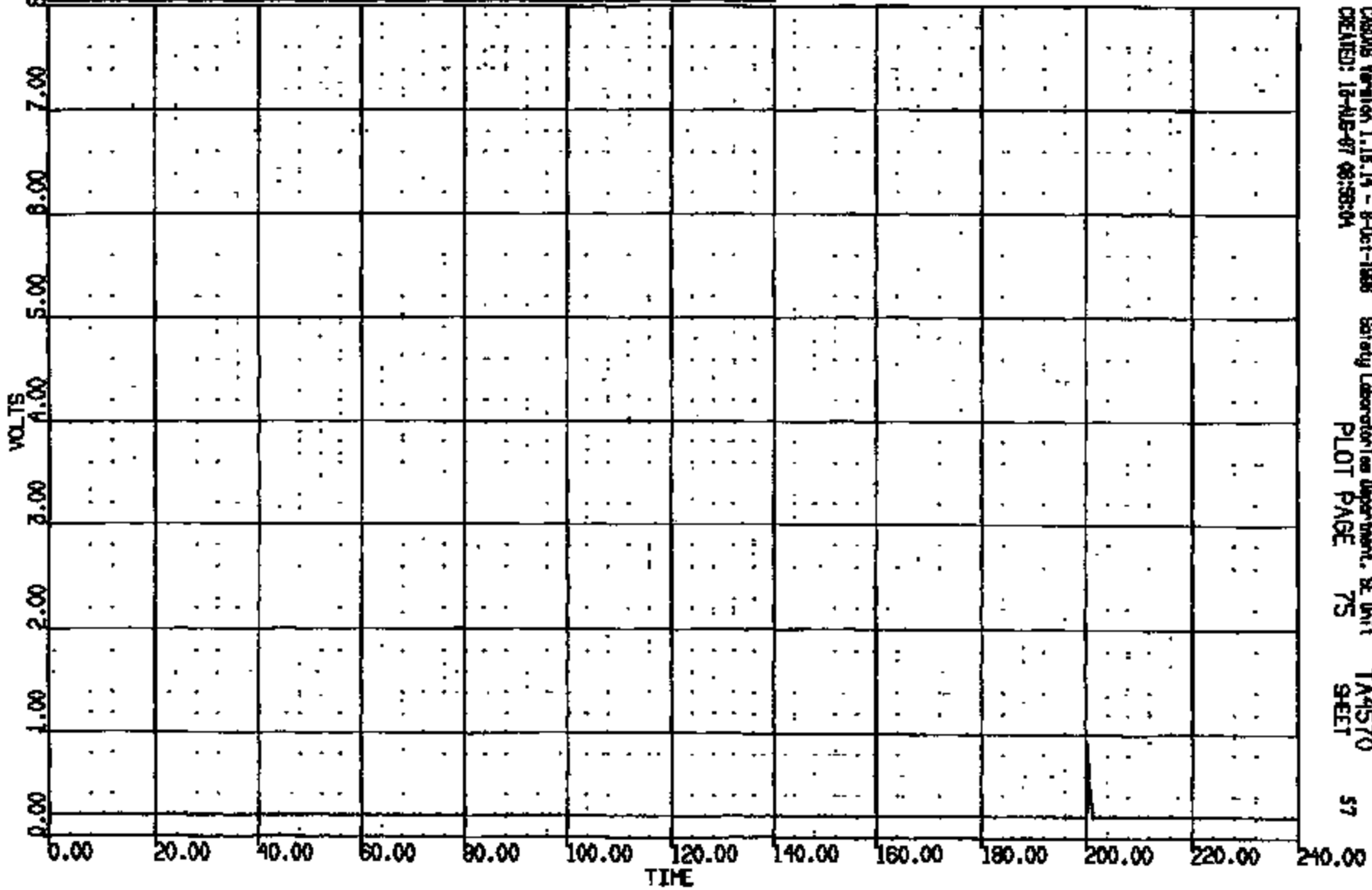
CASIMS Version 1.16.14 - 8-Oct-1998 Safety Laboratories Department, EE Unit TA4570  
CREATED: 12-AUG-97 08:58:02 PLOT PAGE 74 SHEET 56

CRITS 0010797

CR #: 10797 TO: TA4570 DATE: 970813 08:50:53  
199X DN-101

(56) CR10797T CAL TNL #5 BOSCH FAP 400C  
MAX = 0.9082 at 200.3 NS MIN = 0.1904 at 201.3 NS

AXIS 1



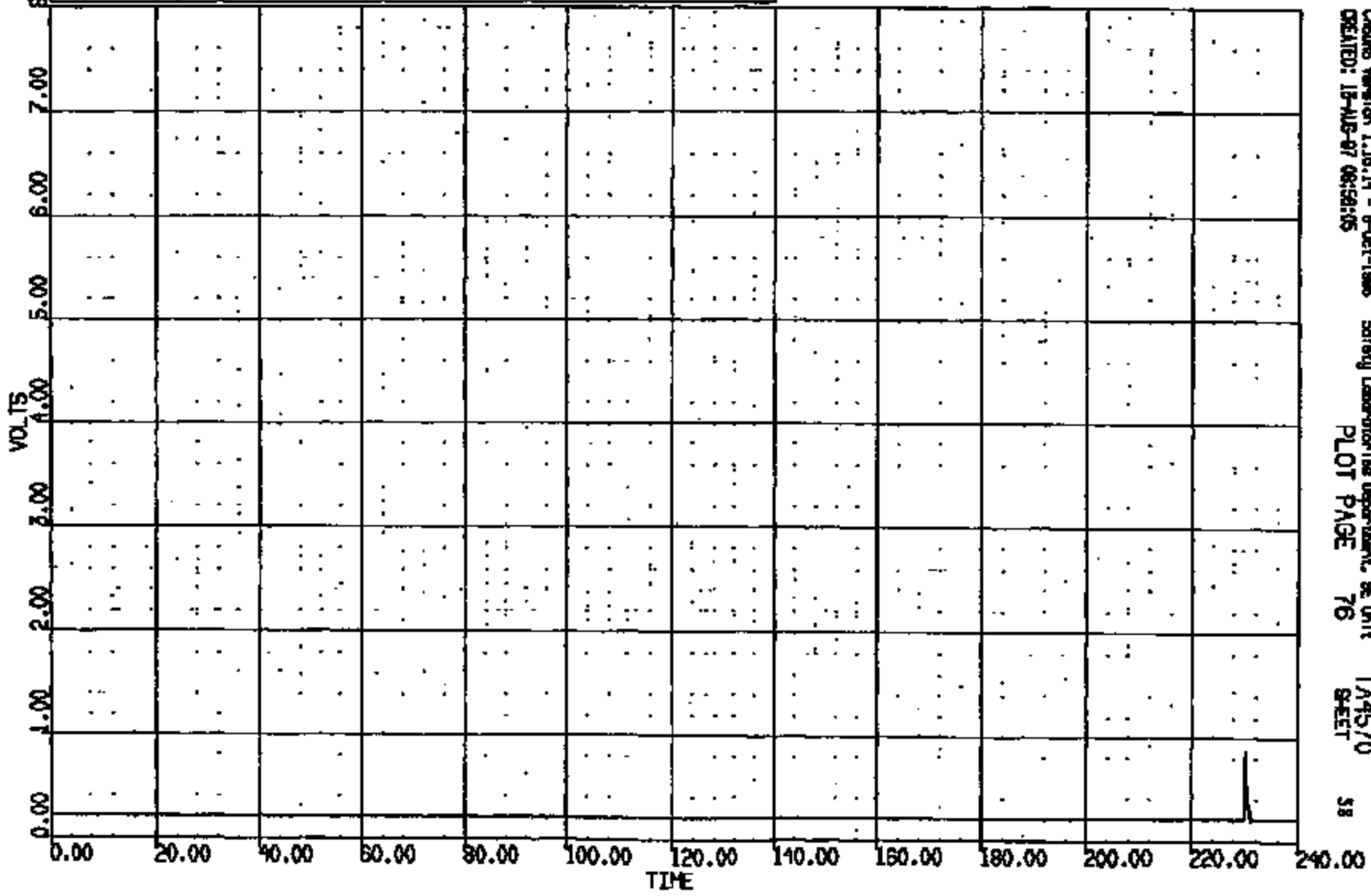
CASDIS Version 1.15.14 - 8-Oct-1998 Safety Laboratory Department, SE Unit TA4570  
CREATED: 12-AUG-97 08:58:04 PLOT PAGE 75 SHEET 57

CRIS 0010797

CR R: 10787 TO: TA4570 DATE: 970815 08:30:56  
199X DN-101

(54) CR10797 C/L TML #5 BOSCH PTD 4000C  
MAX = 0.800H at 230.2 MS MIN = 0.130H at 231.1 MS

AXIS 1



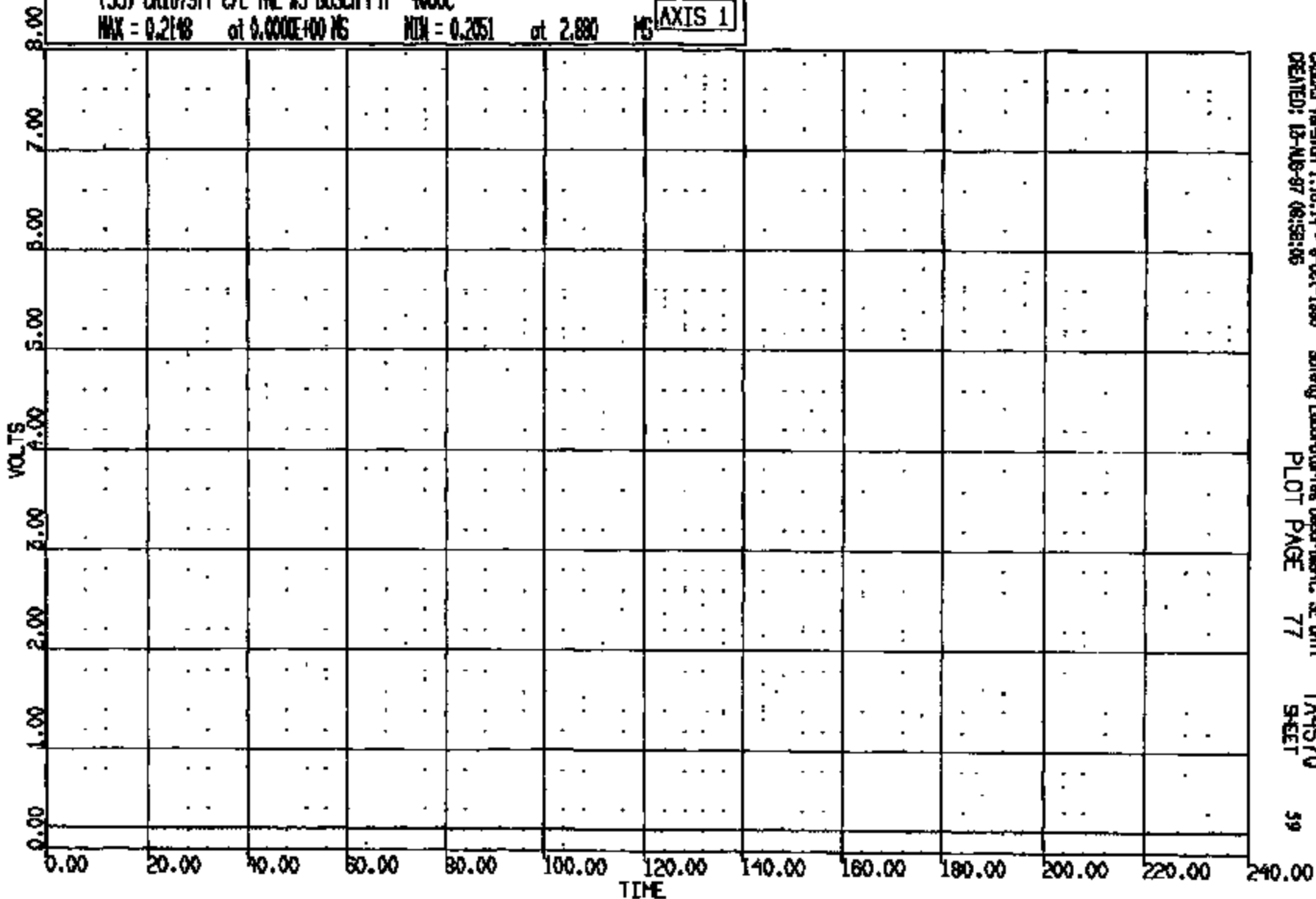
CRS018 Version 1.18.14 - B-Oct-1998 Safety Laboratories Department, SE Unit TA4570  
CREATED: 15-AUG-97 08:58:15 PLOT PAGE 76 SHEET 58

CRIS 0010797

CR R: 10797 TO: TA4570 DATE: 870815 08:50:55  
189X DN-101

(55) CR107971 C/L TNL #5 BOSCH PTP 400C  
MAX = 0.2148 at 0.000E+00 MS MIN = 0.2051 at 2.880 MS

AXIS 1



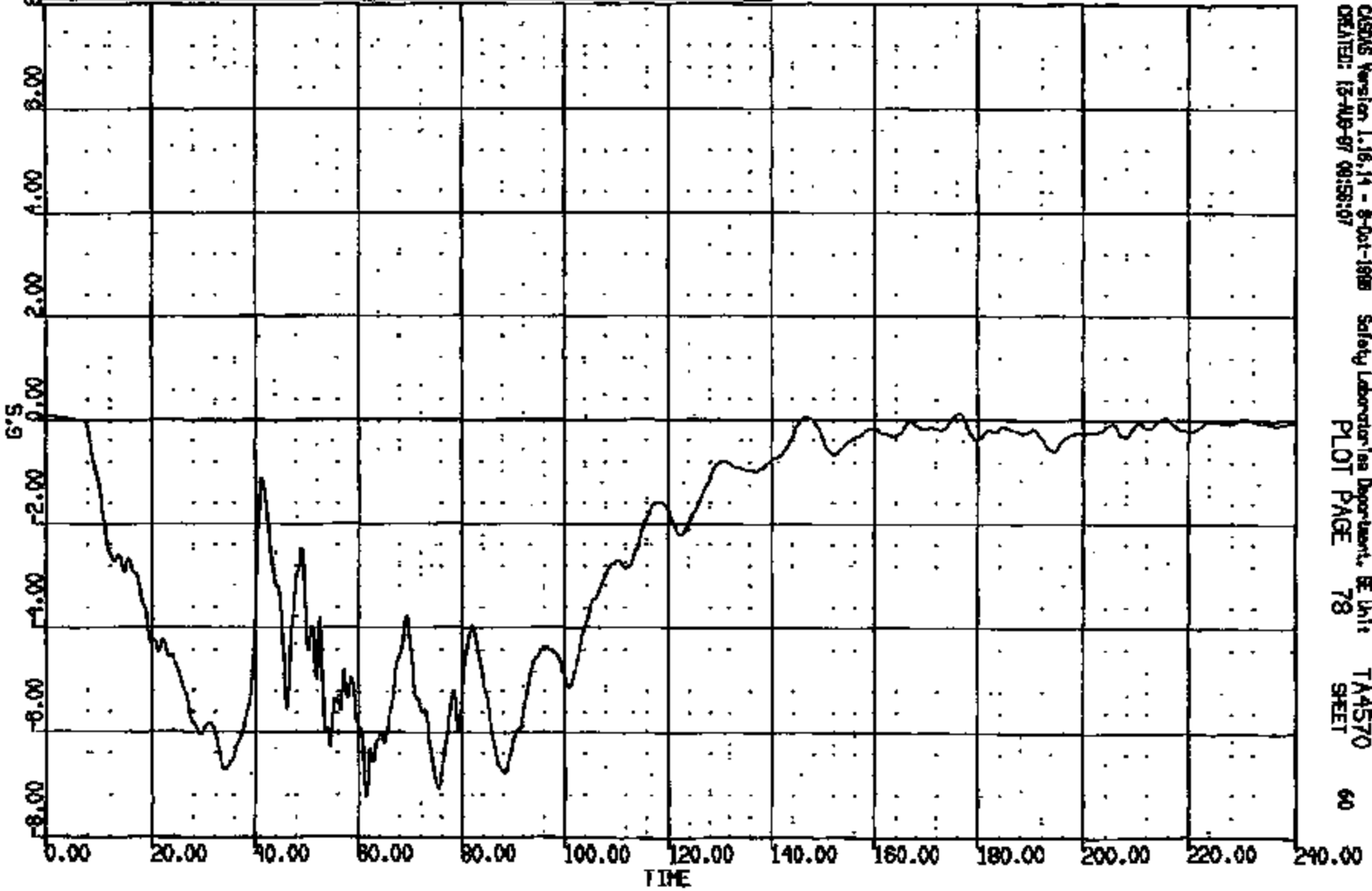
CRS Version 1.16.14 - 8-Oct-1986 Safety Laboratories Department, SE Unit TA4570  
CREATED: 13-NOV-87 08:58:05 PLOT PAGE 77 SHEET 59

CRIS 0010797

CR R: 10797 TO: TA4570 DATE: 970813 08:20:55  
100X DN-101

(56) CR10797T C/L TNL FWD OF F/SEATS SH LONG 60C  
MAX = 0.1217 at 176.4 MS MIN = -7.219 at 61.60 MS

AXIS 1



CASYS Version 1.16.14 - 8-Oct-1998  
CREATED: 13-AUG-97 09:58:07

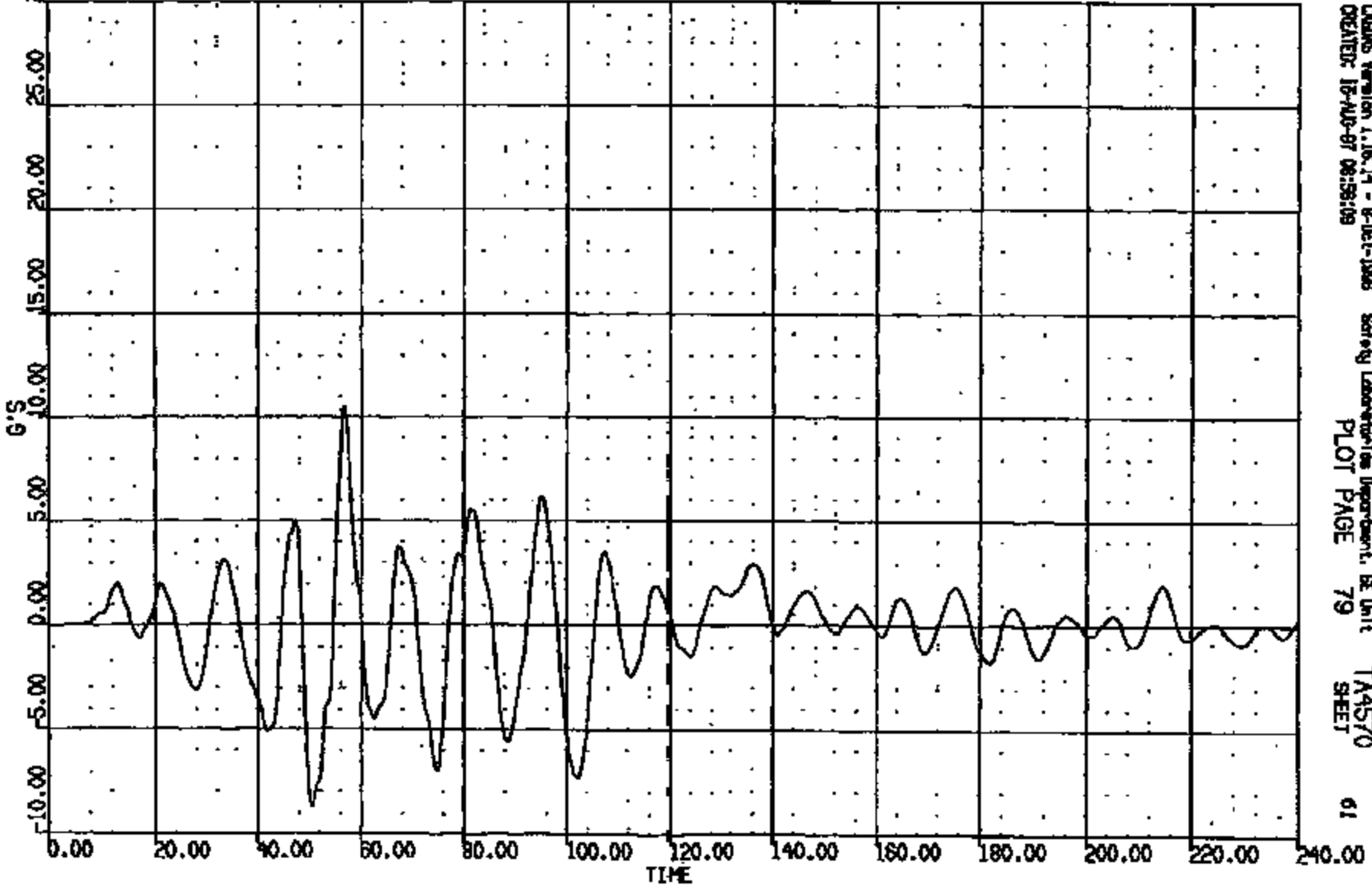
Safety Laboratories Department, E Unit  
PLOT PAGE 78

TA4570  
SHEET 60

CRTS 0010797

CR R# 10797 TO: TA9570 DATE: 970813 08:50:55  
199X DN-101

(57) CR10797 C/L TNL FWD OF F/SEATS SM VERT GDC  
MAX = 10.51 at 56.72 NS MIN = -8.726 at 90.40 NS **AXIS 1**



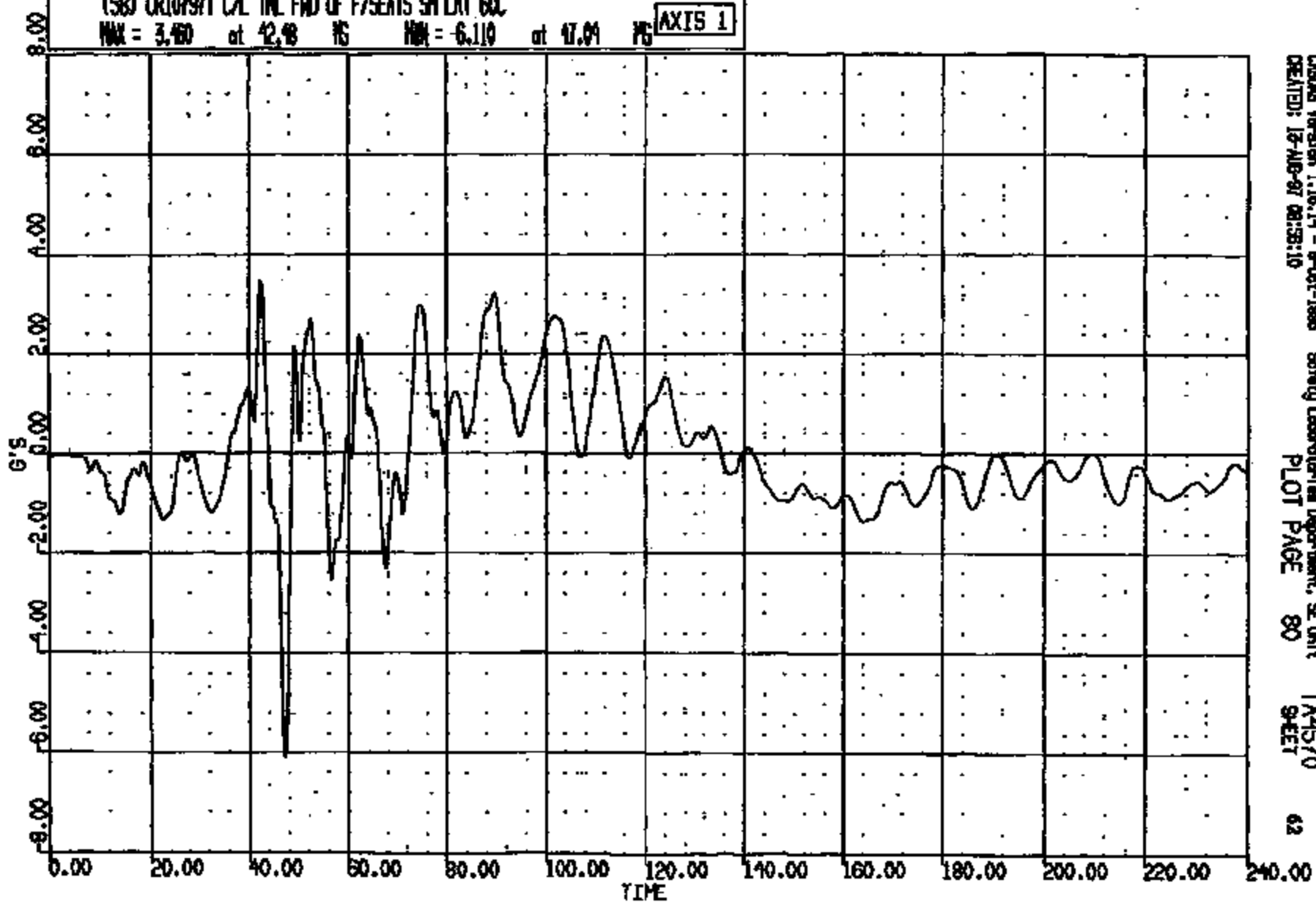
CASRS Version 1.16.14 - 8-Oct-1998 Safety Laboratories Department, BE Unit  
CREATED: 15-AUG-97 08:59:09 PLOT PAGE 79 TA9570  
SHEET 61

CRTS 0010797

CR #: 10797 TO: TA4570 DATE: 970813 08:50:55  
188X DN-101

(58) CR10797T CAL TML FWD OF F/SEATS SH LAT GDC  
MAX = 3.40 at 42.98 PG MIN = -6.10 at 47.09 PG

AXIS 1

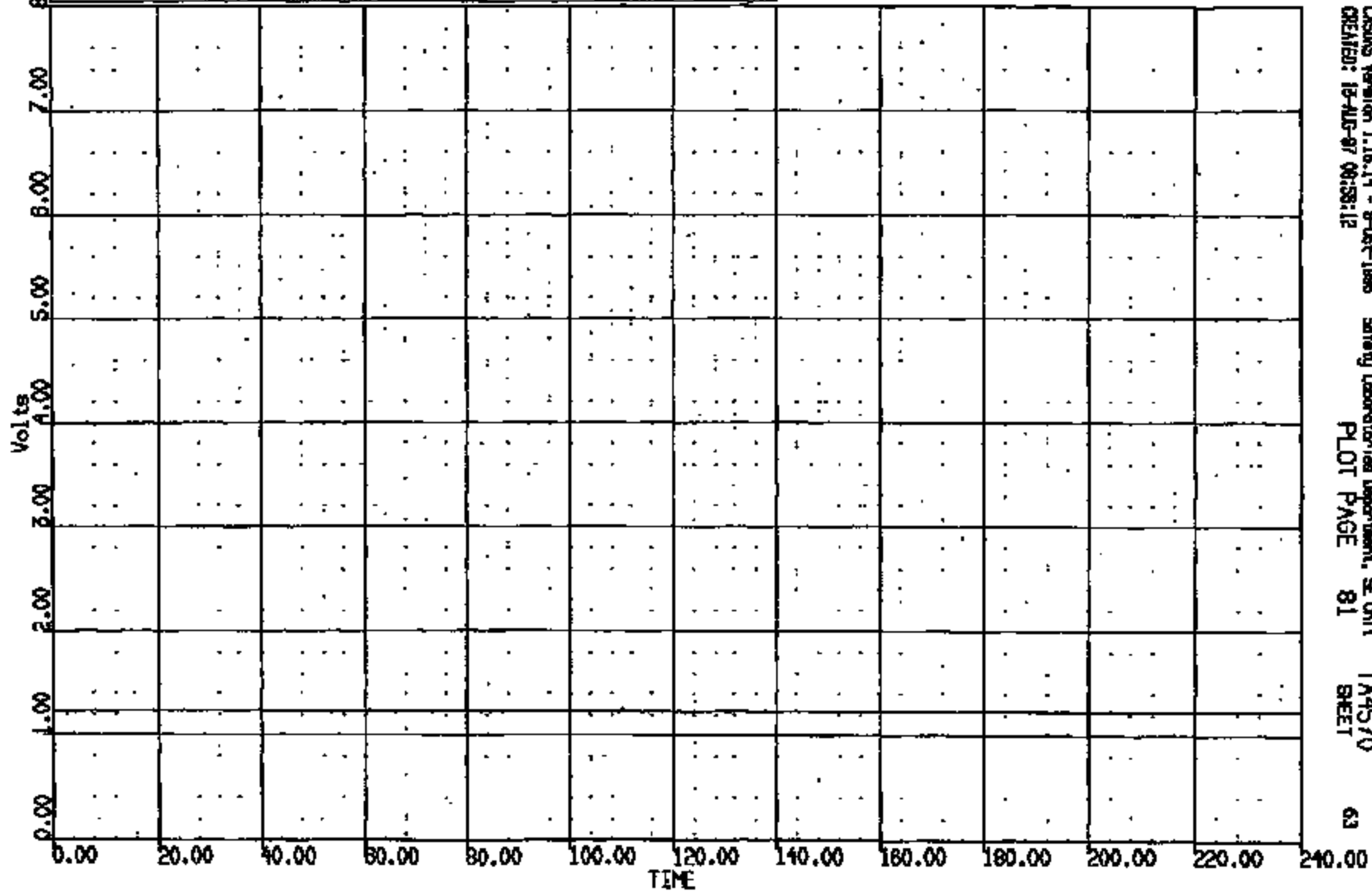


CRS005 Version 1.16.14 - 9-Oct-1998 Safety Laboratories Department, SE Unit  
CREATED: 13-AUG-97 08:53:10 PLOT PAGE 80 TA4570 SHEET 62

CRIS 0010797

CR R: 10797 TO: TA4570 DATE: 870818 08:30:58  
199X DN-101

(59) CR10797E CAL TML FND OF T/S TAKA UBLT 4000C  
MAX = 1.25 at 110.2 MS MIN = 1.211 at 2.690 MS **AXIS 1**



CASIMS Version 1.16.14 - 9-Oct-1988 Safety Laboratories Department, SE Unit 1  
CREATED: 18-AUG-97 08:58:12 PLOT PAGE 81 TA4570 SHEET 63

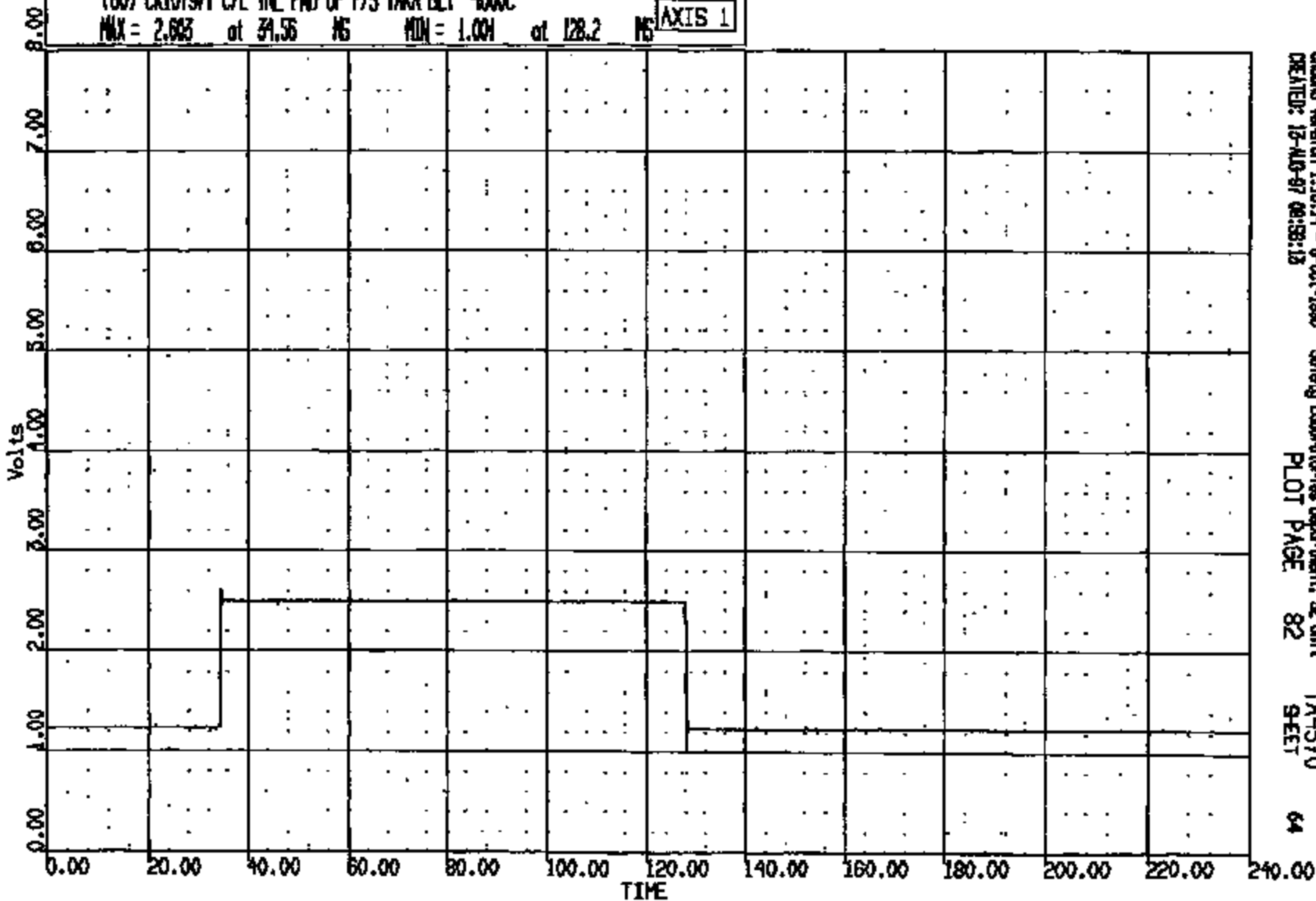
CRTS 0010797



CR R: 10797 TO: TA4570 DATE: 970815 08:50:55  
100X DN-101

(60) CR10797T C/L INL FWD OF F/S TARA BLT 4000C  
MAX = 2.683 at 34.56 MS MIN = 1.001 at 128.2 MS

AXIS 1



CRIMS Version 1.16.14 - 8-Oct-1998  
CREATED: 15-AUG-97 08:58:13

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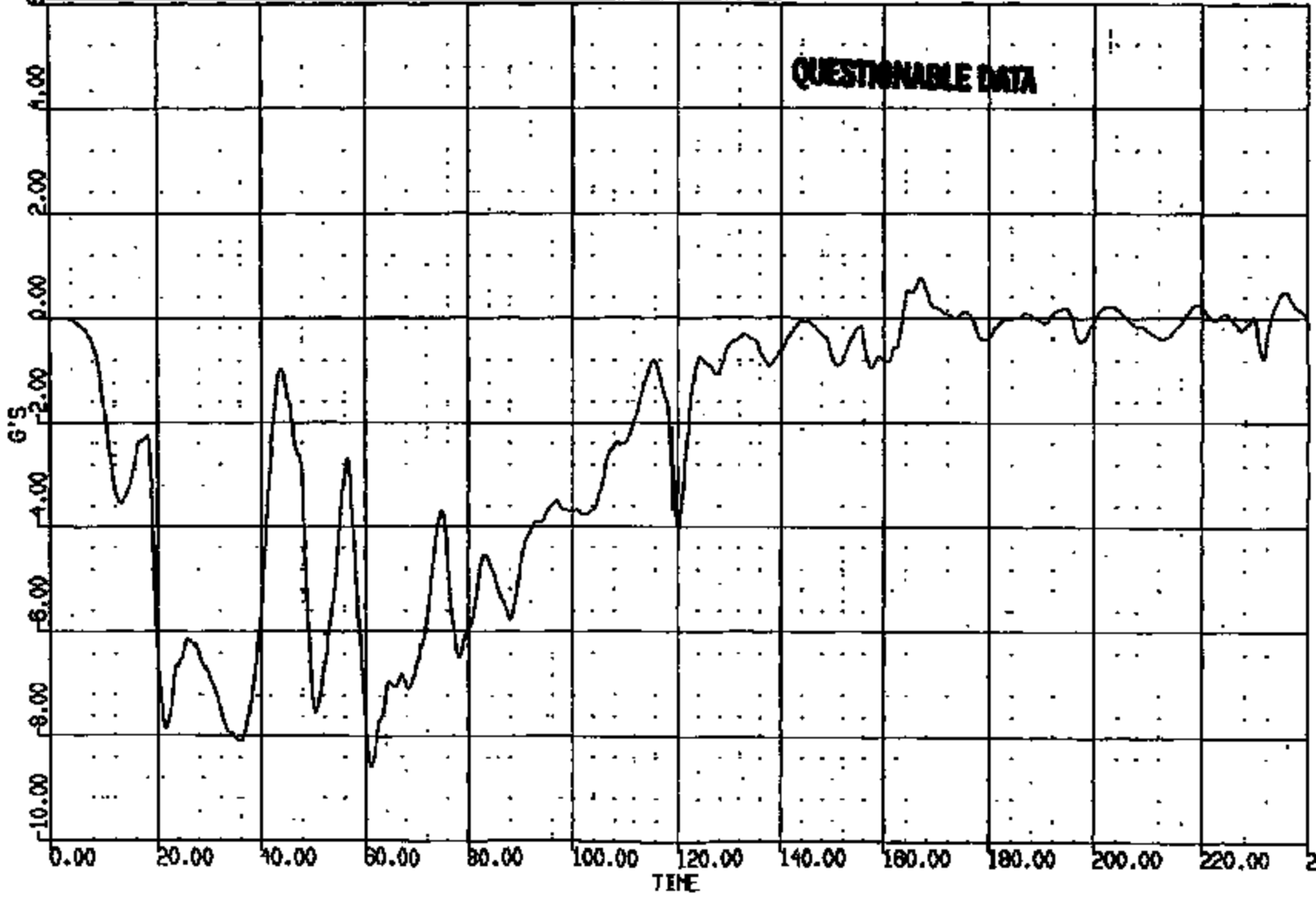
TA4570  
SHEET

64

CRIS 0010797

CR R: 10797 TO: TA4570 DATE: 970813 08:30:55  
199X DN-101

(S1) CR10797 L/F DOOR @ BELTLINE MID SN LONG GOC  
MAX = 0.7589 at 166.9 MS NOM = -0.602 at 61.12 MS **AXIS 1**

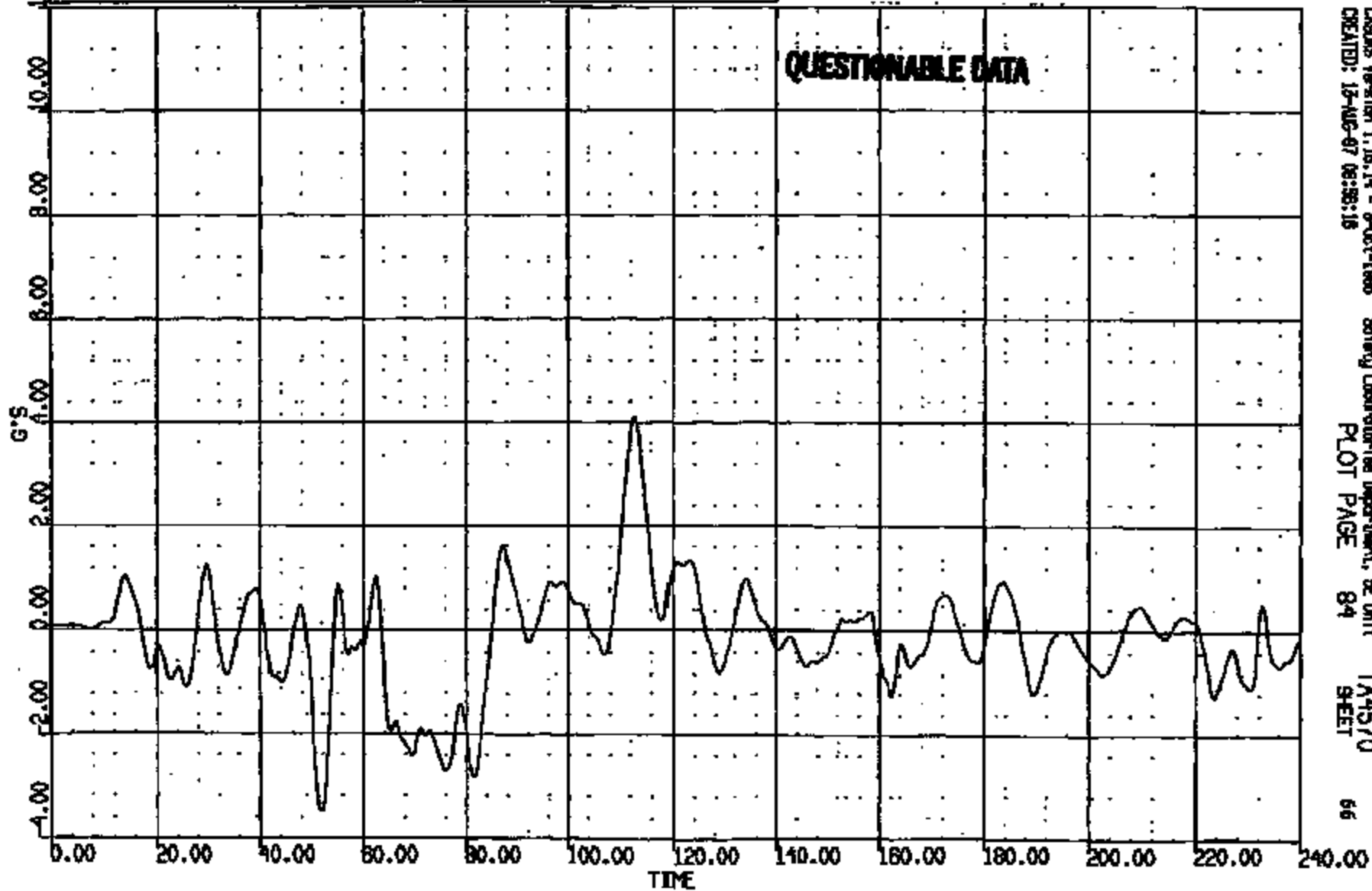


CRSIS Version 1.16.14 - 9-04-1998 Safety Laboratories Department, SE Unit TA4570  
CREATED: 12-AUG-97 08:53:15 PLOT PAGE 85 SHEET 65

CRIS 0010797

CR R: 10797 TO: TA4570 DATE: 970813 09:30:35  
188X DN-101

(62) CR10797 L/F DOOR @ BELTLINE MID SH VERT GOC  
MAX = 4.114 at 112.8 MS MIN = -3.489 at 52.00 MS **AXIS 1**



CRS Version 1.15.14 - 9-01-1988 Safety Laboratory Department, SE Unit TA4570  
CREATED: 15-AUG-97 09:38:18 PLOT PAGE 84 SHEET 66

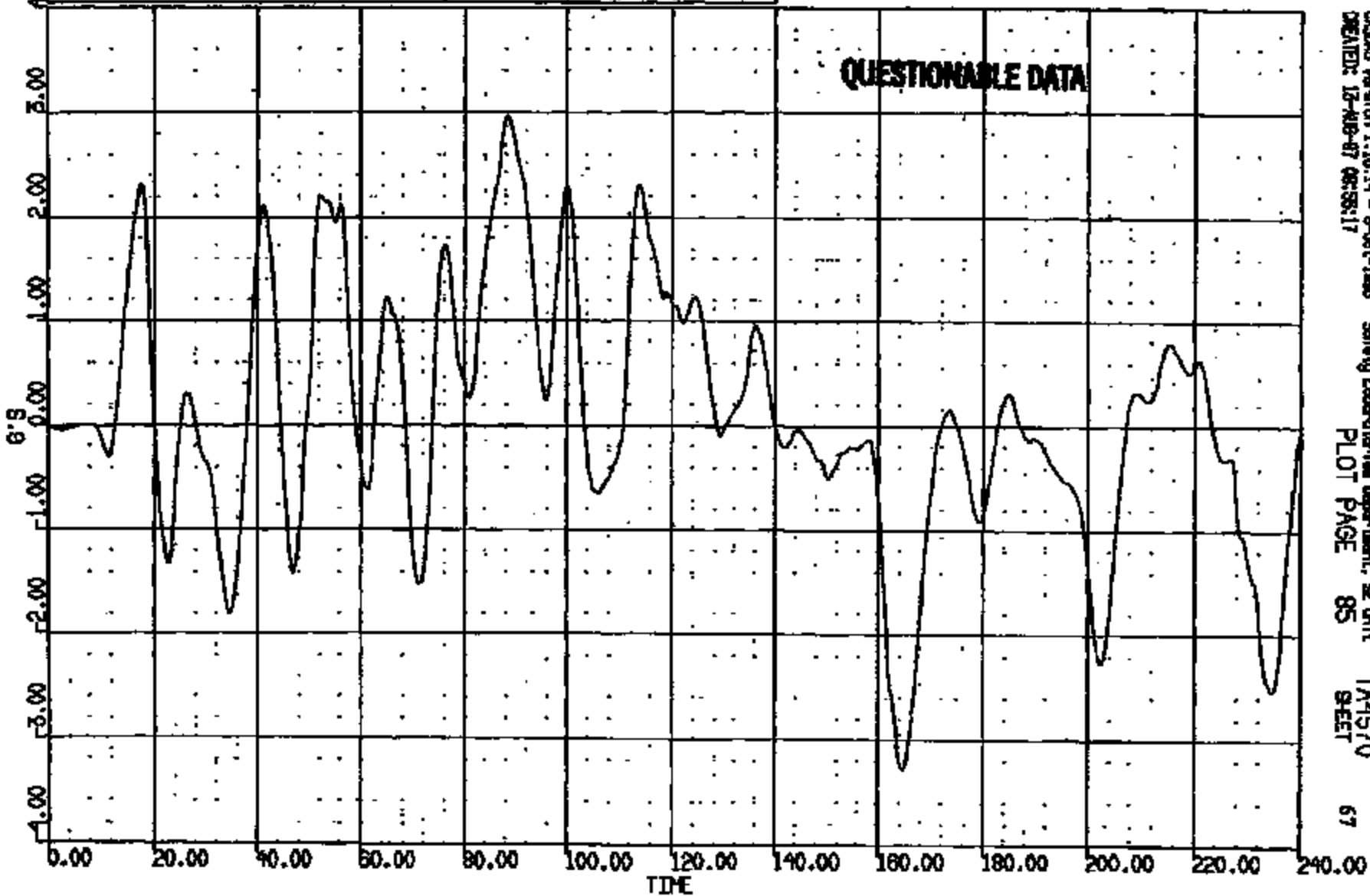
CRTS 0010797

CR ID: 10797 TO: TA4570 DATE: 870813 08:30:55  
100X DN-101

(63) CR10797 L/F DOOR @ BELTLINE MID SH LAT GC

MAX = 2.968 at 88.32 HG MIN = -3.276 at 164.6 HG

AXIS 1



CRSIS Version 1.16.14 - 8-24-1988  
CREATED: 12-KIB-87 08:35:17

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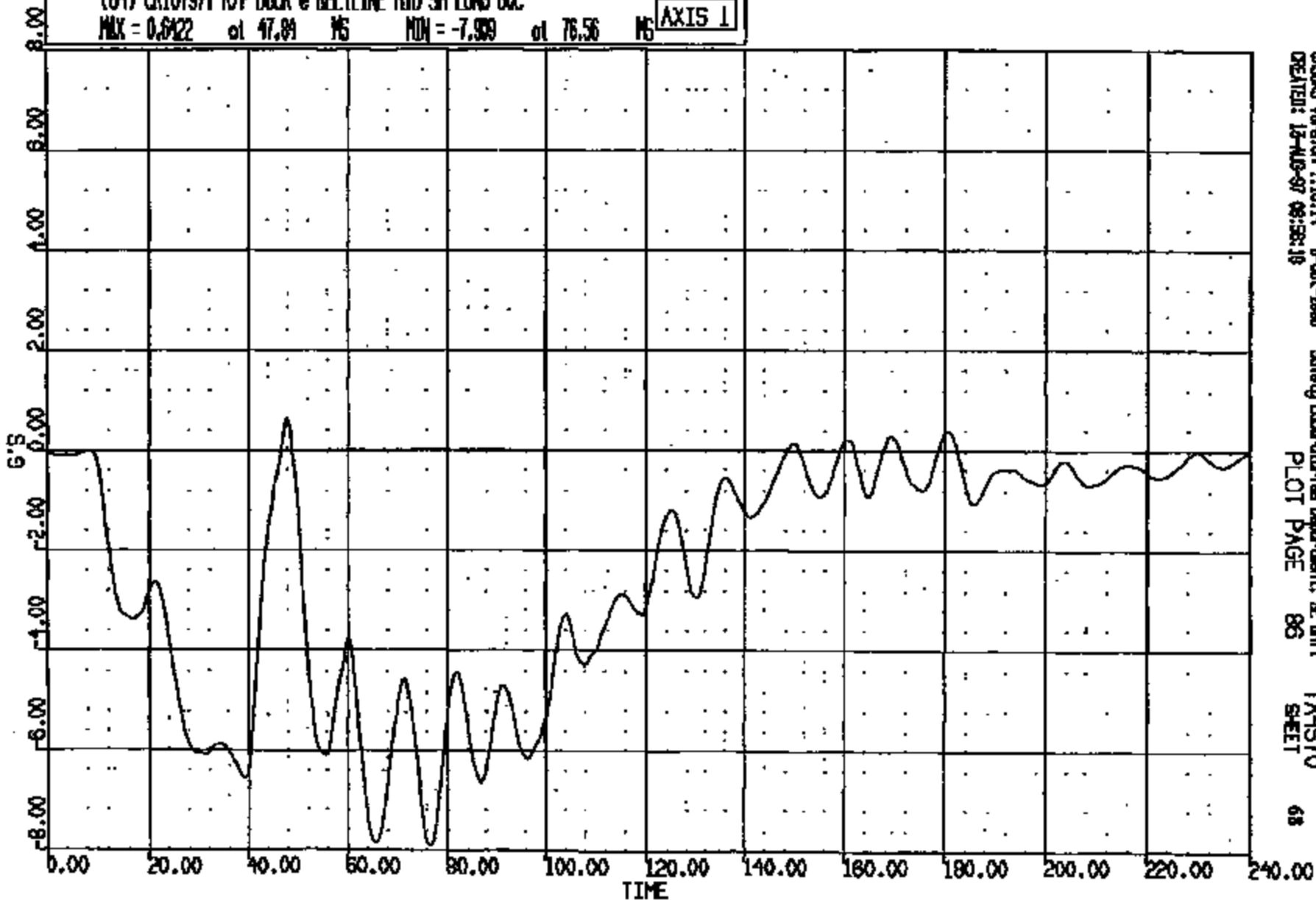
67

CRTS 0010797

CR: 10787 TO: TA4570 DATE: 970813 09:50:55  
100X DN-101

(6A) CR107971 R/F DOOR @ BELTLINE MID SH LONG 60C  
MAX = 0.8422 at 47.89 MS MIN = -7.959 at 76.56 MS

AXIS 1



CRSIS Version 1.16.14 - 9-Oct-1998  
CREATED: 13-AUG-97 09:58:18

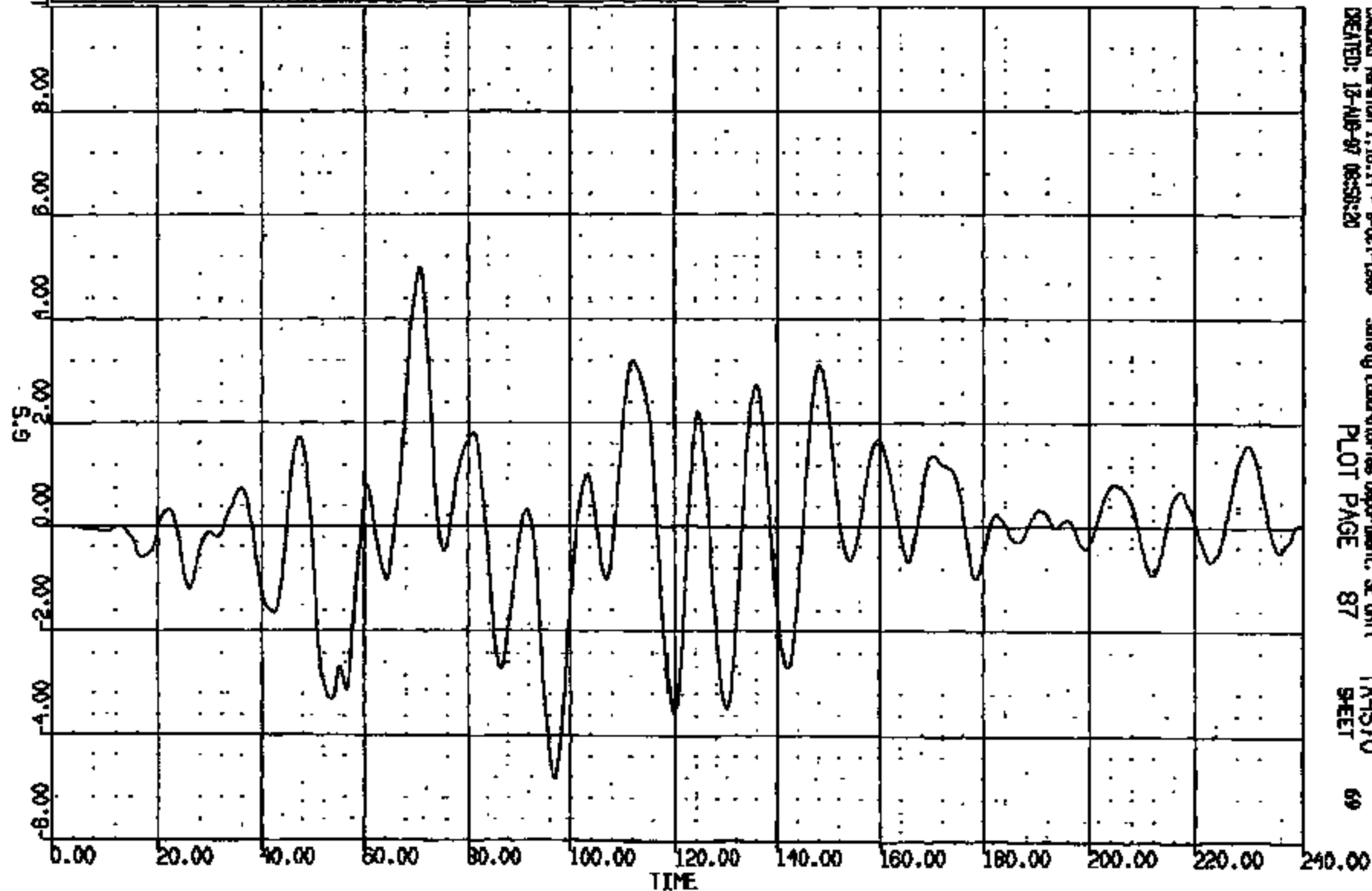
Safety Laboratories Department, E. Unit  
PLOT PAGE 86

TA4570  
SHEET 68

CRIS 0010797

CR R: 10797 TO: TA4570 DATE: 970813 08:20:56  
100X DN-101

(6S) CR107971 R/F DOOR @ BELTLINE MID SH VERT GOC  
MAX = 1.976 at 70.90 MS MIN = -1.830 at 96.96 MS **AXIS 1**

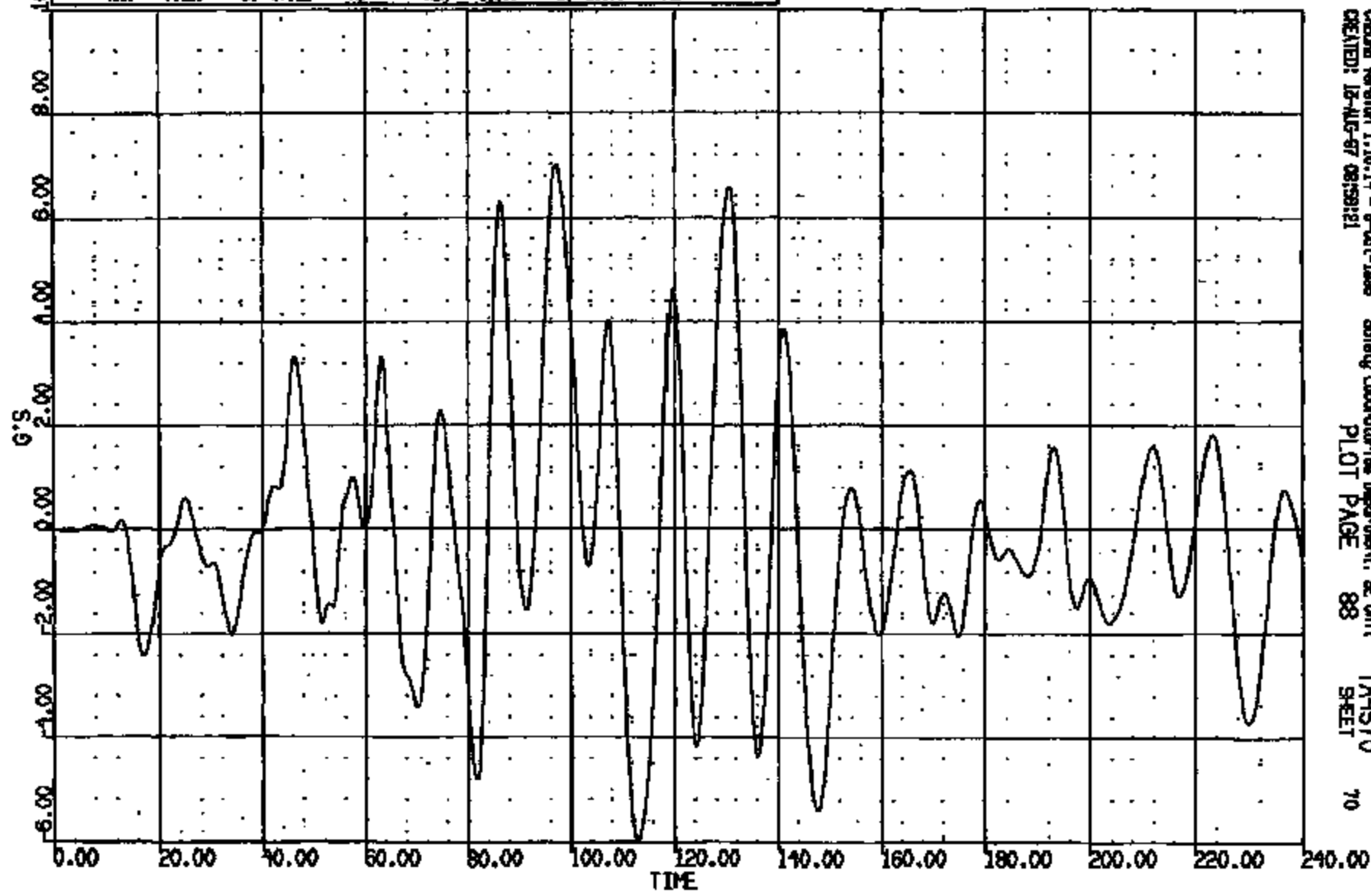


CRS Version 1.18.14 - 8-01-1998 Safety Laboratories Department, SE Unit 1 TA4570 69  
CREATED: 15-AUG-97 08:58:20 PLOT PAGE 87 SHEET

CRIS 0010797

CR R = 10797 TO: TA4570 DATE: 970813 08:30:58  
189X DN-101

(66) CR10797I R/F DOOR @ BELTLINE MID SH LAT 60C  
MAX = 7.020 at 97.12 MS MIN = -5.989 at 113.0 MS **AXIS 1**



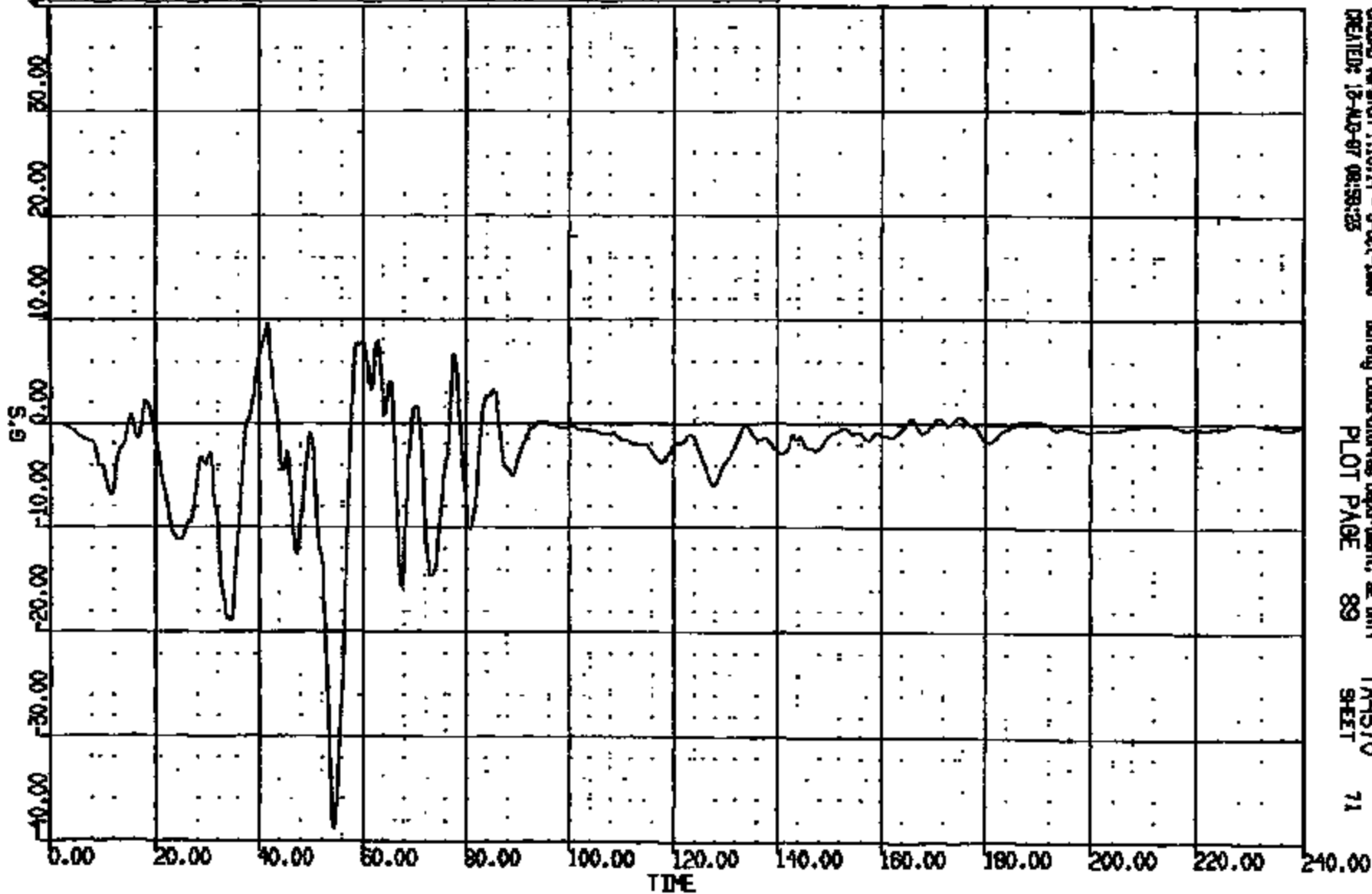
CRS08 Version 1.16.14 - 8-Oct-1998 Safety Laboratory Department, SE Unit TA4570  
CREATED: 12-AUG-97 08:58:21 PLOT PAGE 88 SHEET 70

CRIS 0010797

CR R: 10987 TO: TA4570 DATE: 970815 08:50:55  
199X DN-101

(67) CR10797 L/R/O UP FRT SH LONG GDC  
MAX = 9.579 at 41.68 MS MIN = -38.79 at 51.40 MS

AXIS 1



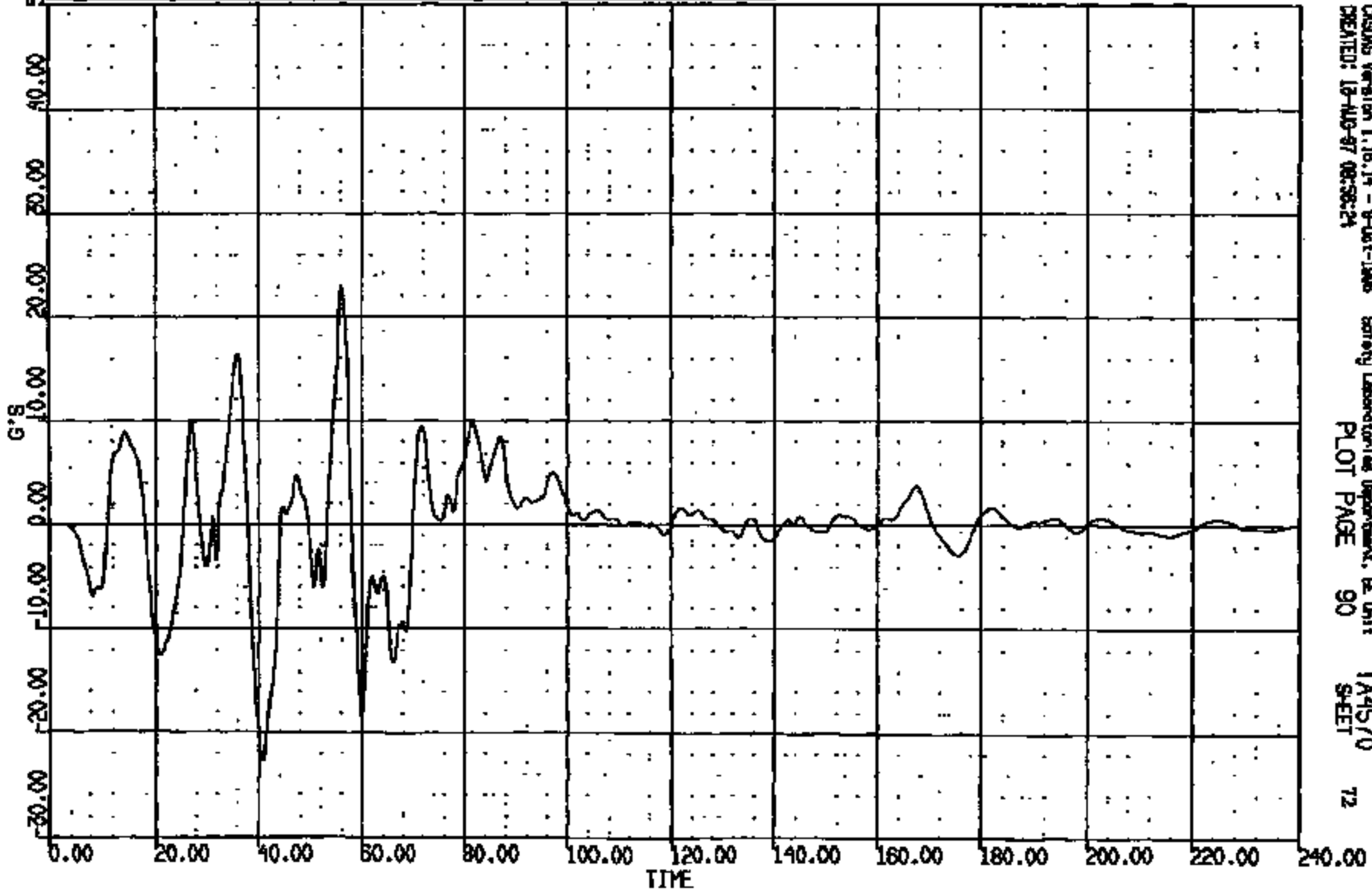
CASUS Version 1.16.14 - 9-01-1998 Safety Laboratories Department, SE Unit  
CREATED: 12-AUG-97 08:58:23 PLOT PAGE 89 TA4570 SHEET 71

CRIS 0010797



CR RI 10797 TO: TA4570 DATE: 970813 08:30:55  
199X DN-101

(68) CR10797 L/RAD UP FRI SM VERT 60C  
MAX = 22.82 at 56.16 NS MIN = -22.71 at 40.69 NS **AXIS 1**

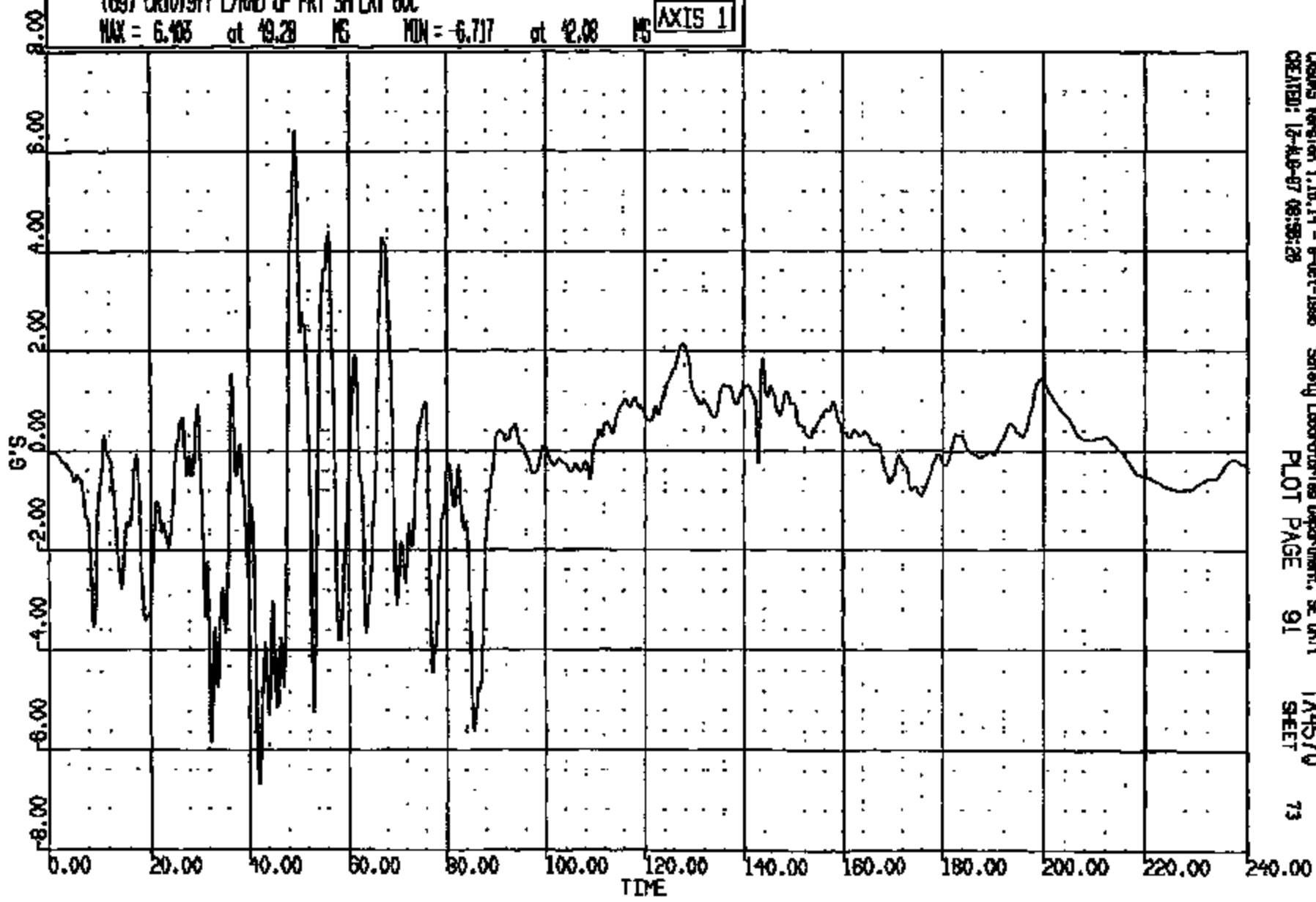


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CREATED: 12-AUG-97 08:38:24 PLOT PAGE 90 SHEET 72

CRTS 0010797

CR R: 10797 TC: TA4570 DATE: 870815 08:30:35  
100X DN-101

(69) CR107977 L/RND LP FRT SH LAT 60C  
MAX = 6.406 at 49.28 MS MIN = -6.717 at 42.08 MS **AXIS 1**



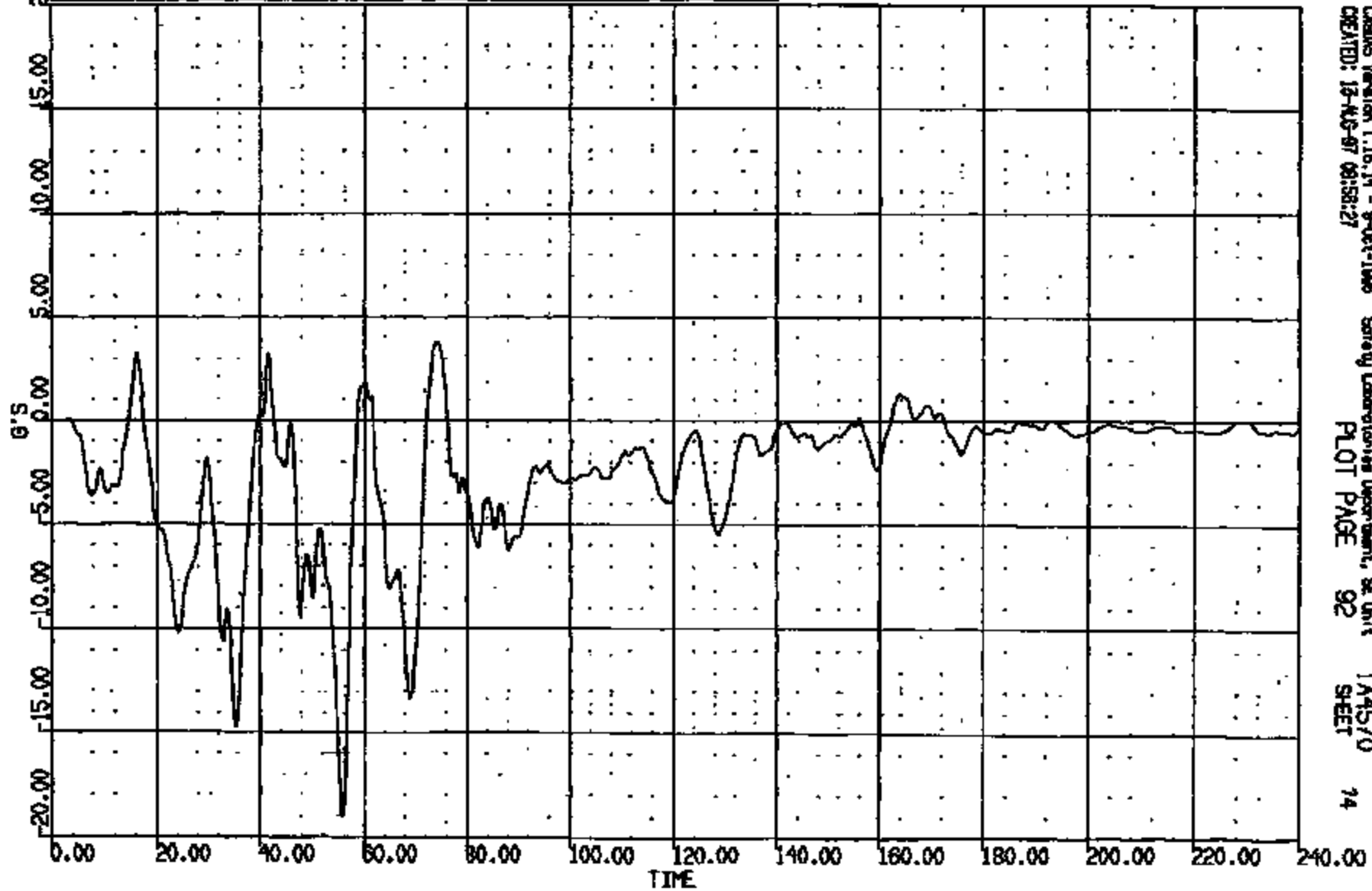
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CREATED: 12-AUG-87 08:58:28 PLOT PAGE 91 SHEET 73

CRTS 0010797

CR R: 10797 TO: TA4570 DATE: 970813 06:50:55  
199X DN-101

(70) CR16797T R/2ND UP FRT SH LONG 60C  
MAX = 3.817 at 74.32 MS MIN = -19.02 at 55.76 MS

AXIS 1

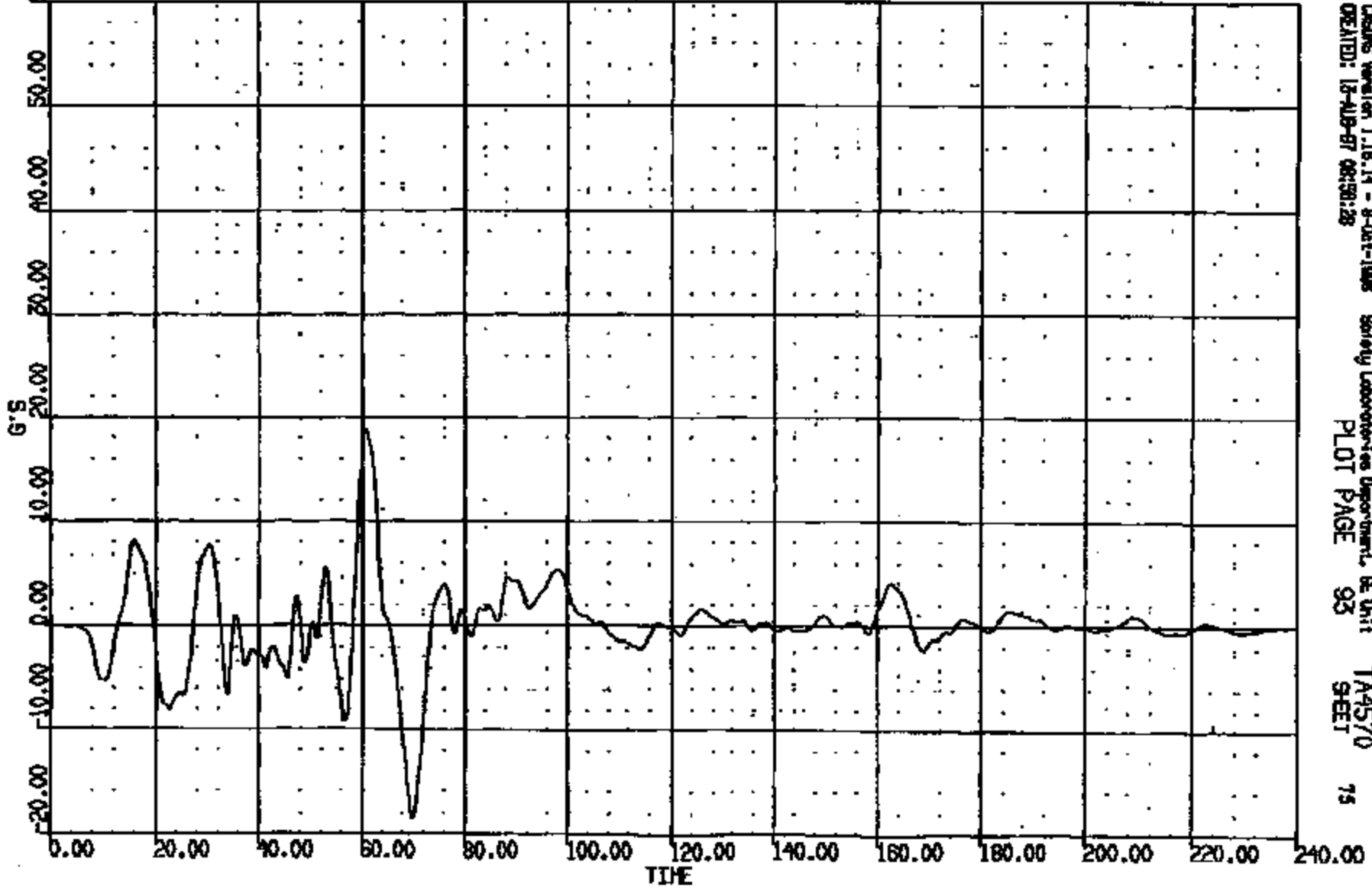


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CREATED: 13-AUG-97 08:58:27 PLOT PAGE 92 SHEET 74

CRIS 0010797

CR R: 10797 TO: TA4570 DATE: 970813 08:30:55  
189X DN-101

(71) CR10797T R/RND UP FRT SH VERT SOC  
MAX = 18.82 at 60.56 MS MIN = -18.53 at 70.00 MS **AXIS 1**



CASMS Version 1.18.14 - 8-Oct-1998 Safety Laboratories Department, BE Unit TA4570  
CREATED: 18-AUG-97 08:38:28 PLOT PAGE 93 SHEET 75

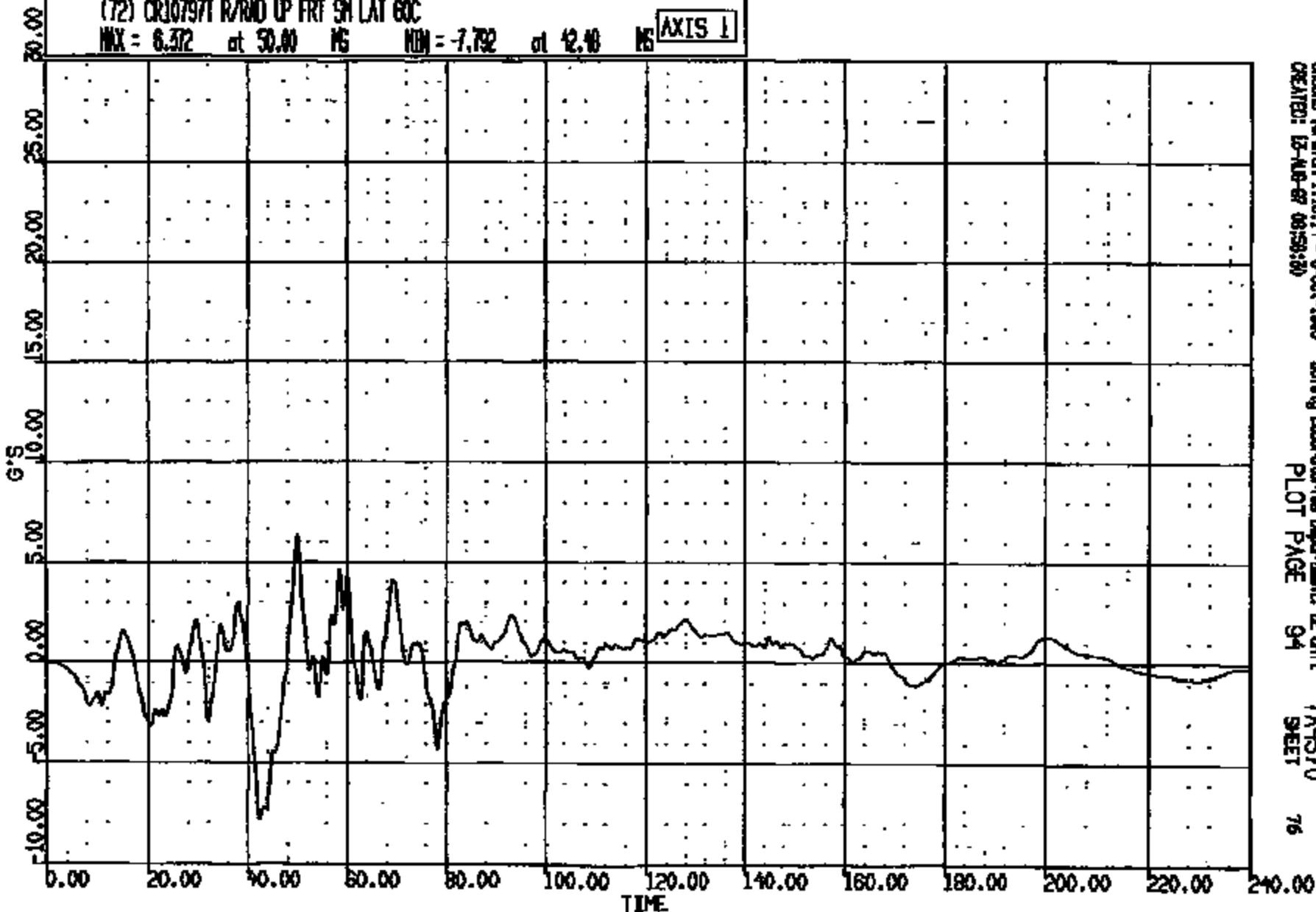
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CR #: 10797 TO: TA4570 DATE: 970813 08:50:55  
100X DN=101

(72) CR10797T R/RND UP FRI SH LAT 60C

MAX = 6.312 at 50.00 MS MIN = -7.792 at 42.40 MS

AXIS 1



CRSIS Version 1.16.14 - 9-Oct-1998  
CREATED: 97-AUG-07 08:58:30

Safety Laboratories Department, E Unit

PLOT PAGE

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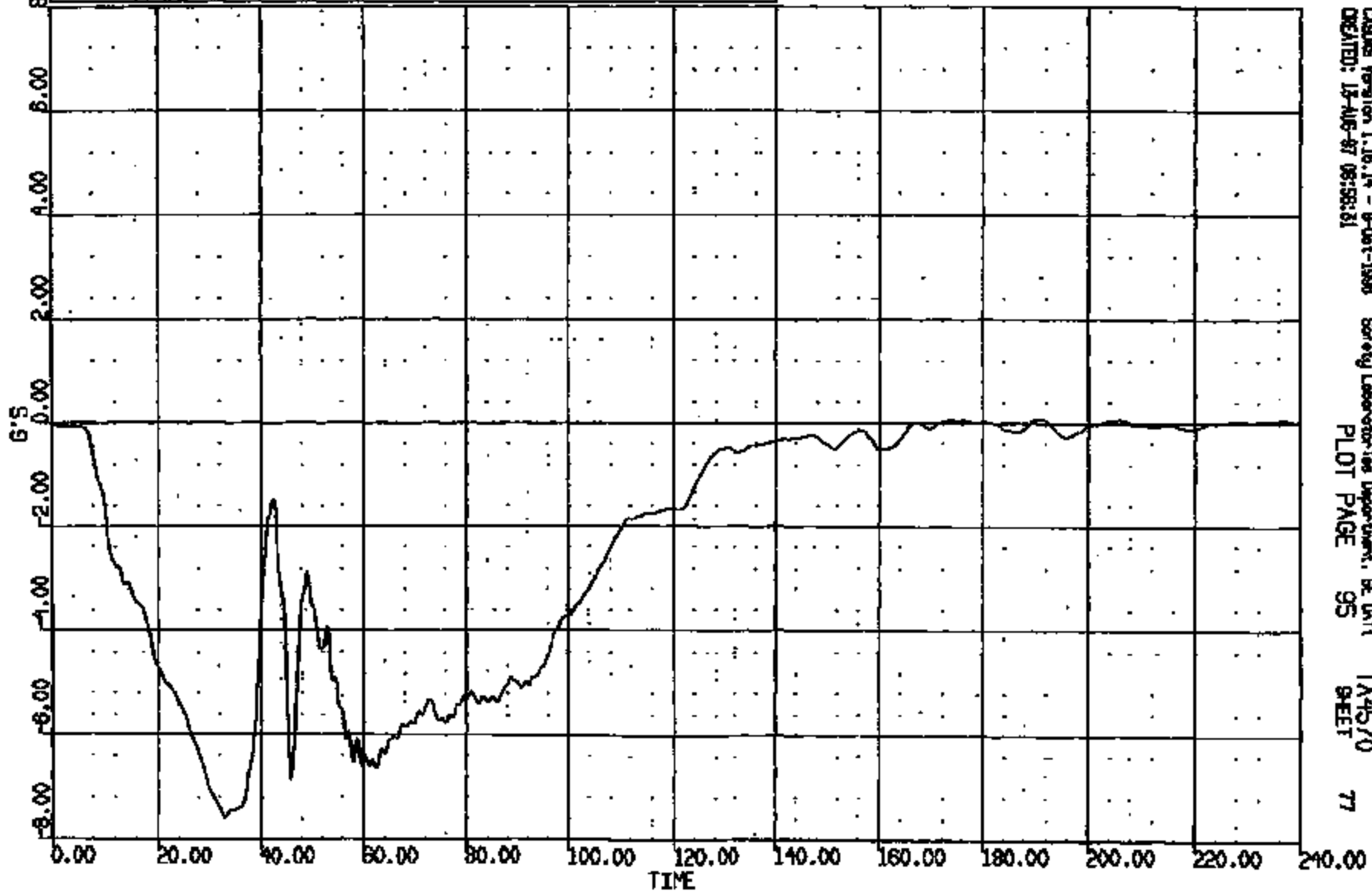
TA4570  
SHEET

76

CRIS 0010797

CR 7 = 10797 TO: TA4570 DATE: 970813 08:50:55  
100X 07-101

(75) CR10797 L/ROCKER @ B-PILLAR LONG 60C  
MAX = 0.8776E-01 at 191.0 MS MIN = -7.578 at 33.12 MS **AXIS 1**



CRS005 Version 1.16.14 - 9-Oct-1998 Safety Laboratory Department, BE UN1  
CREATED: 15-AUG-97 08:58:51 PLOT PAGE 95 TA4570 SHEET 77

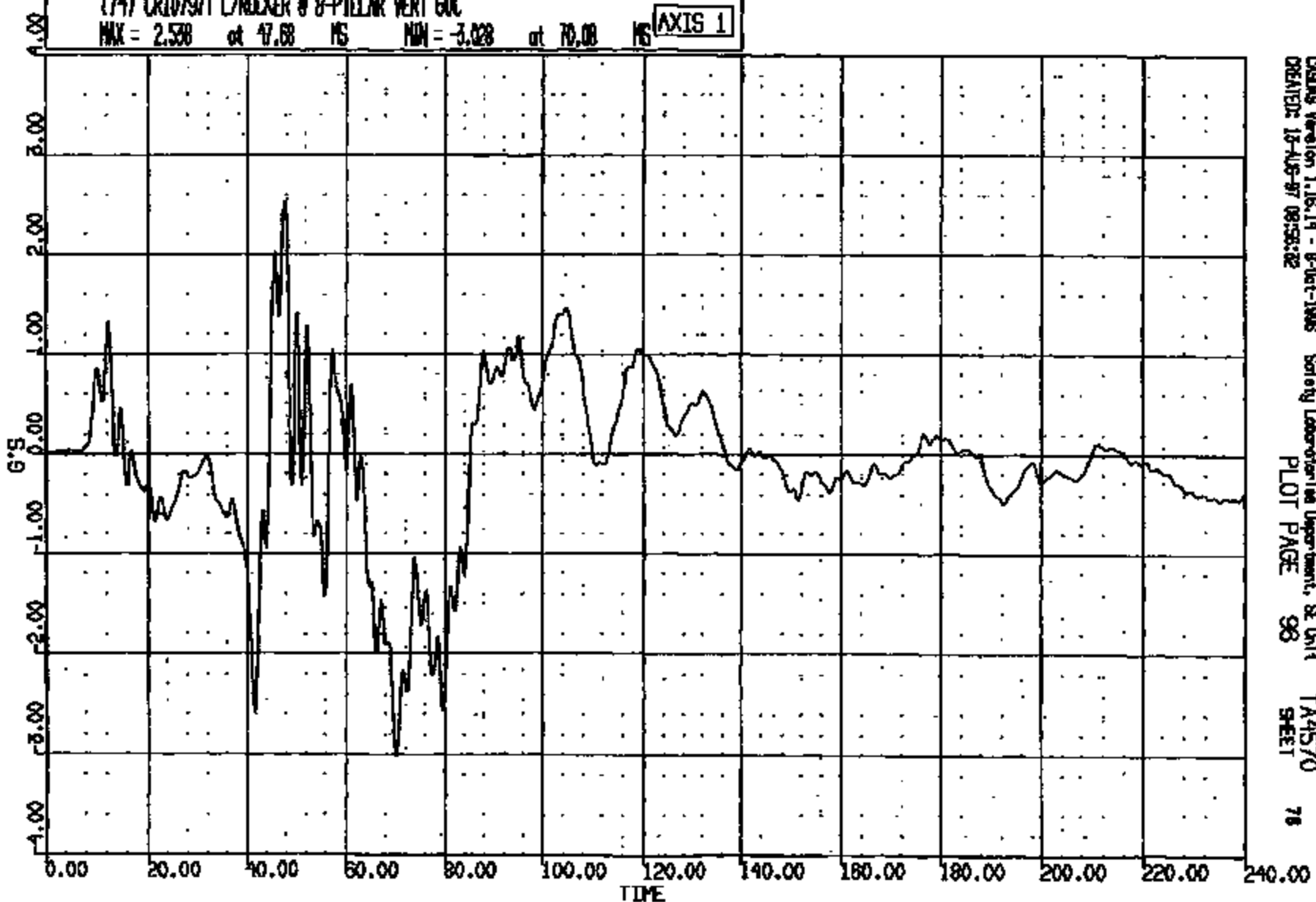
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CR R: 10797 TO: TA4570 DATE: 970813 08:30:55  
199X 02-101

(74) CR10797T L/ROCKER @ 8-PIELAR VERT GOC

MAX = 2.538 at 47.68 MS MIN = -3.028 at 70.00 MS

AXIS 1



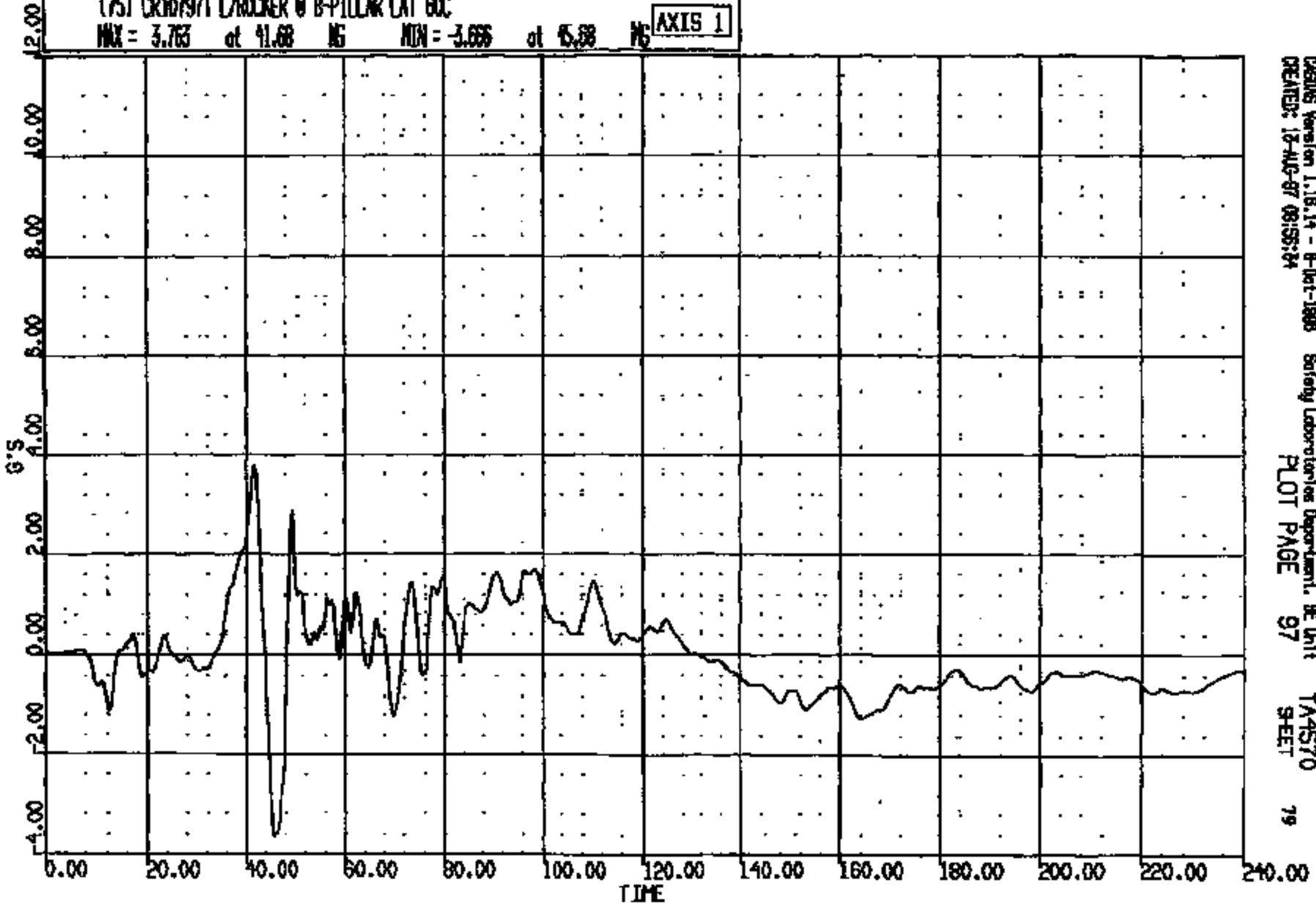
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SHEET

CRTS 0010797

CR R: 10787 TO: TA4570 DATE: 870813 08:50:55  
100X DN-101

(75) CR10797T L/ROCKER @ B-PILLAR LAT 60C  
MAX = 3.763 at 41.68 MS MIN = -3.656 at 45.88 MS

AXIS 1



CRSIS Version 1.16.14 - 8-Oct-1988 Safety Laboratories Department, BE Unit TA4570  
CREATED: 12-AUG-87 08:55:24 PLOT PAGE 97 SHEET 79

CRTS 0010797

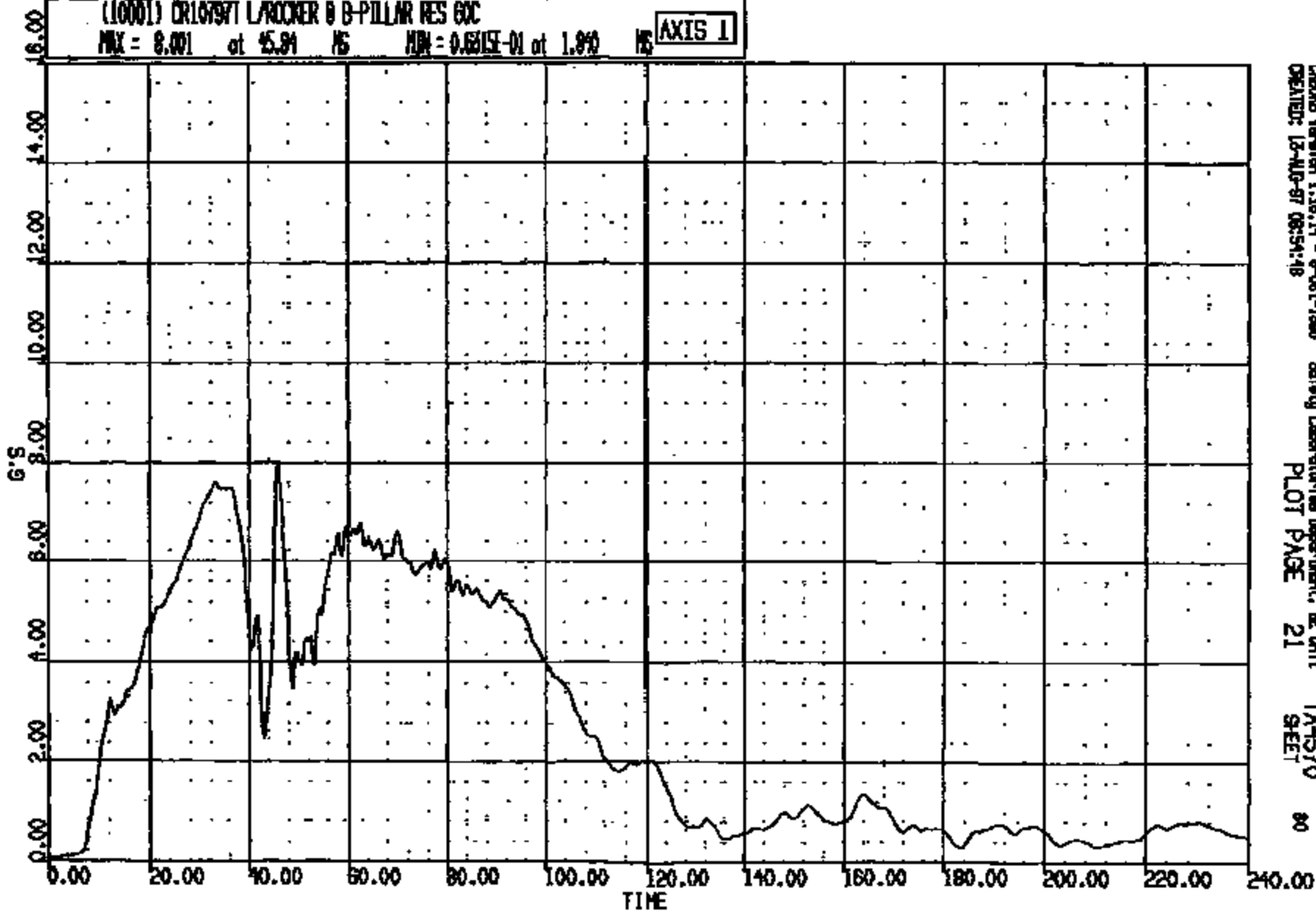


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199X DN-101

(10001) CR10797 L/ROCKER @ B-PILLAR RES EOC

MAX = 8.001 at 45.84 MS MIN = 0.6815E-01 at 1.890 MS

AXIS 1



CRMS Version 1.18.14 - 8-Oct-1988  
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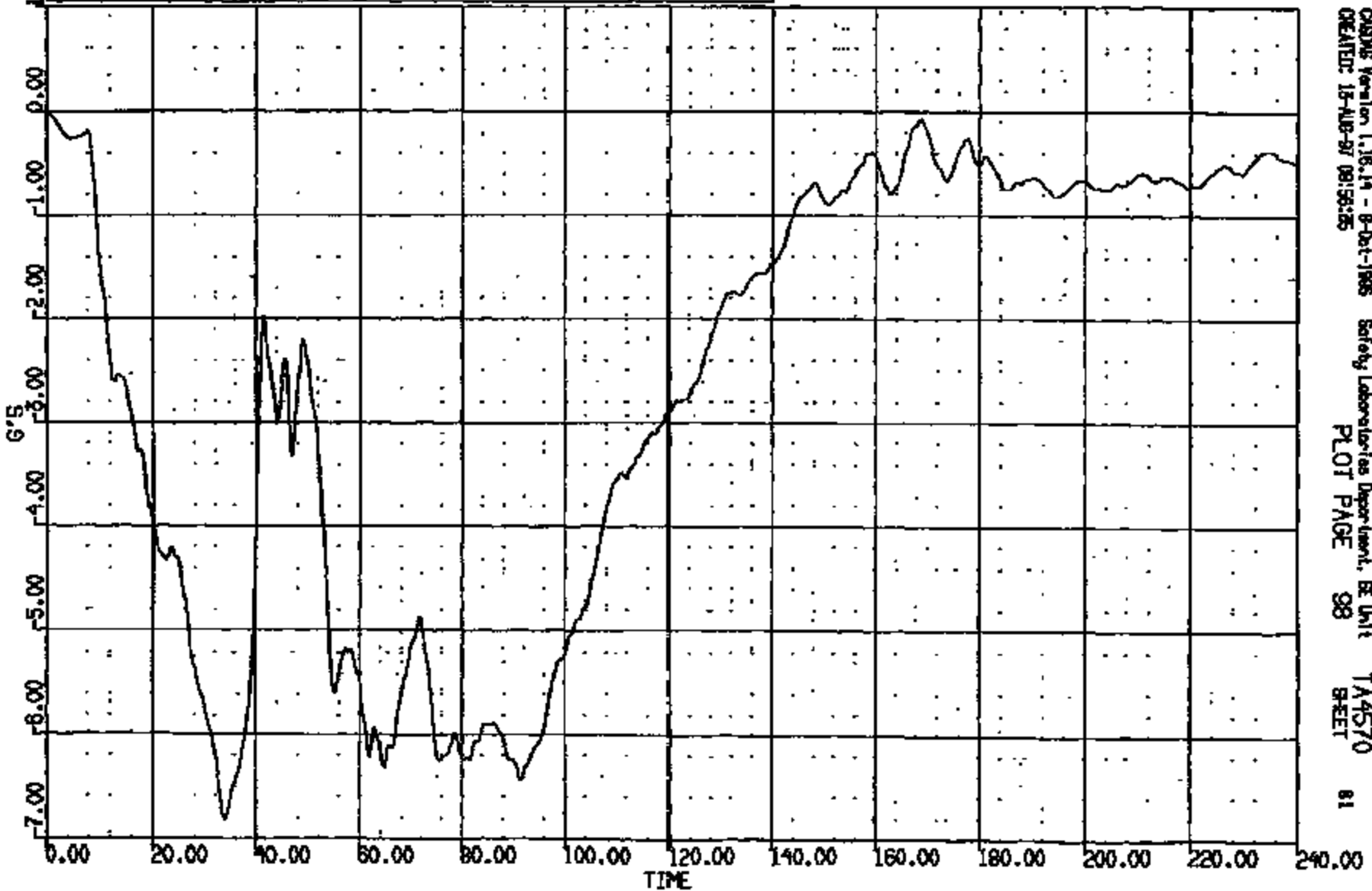
Safety Laboratory Department, E Unit  
PLOT PAGE 21

TA4570  
SHEET 80

CRTS 0010797

CR #: 10797 TO: TA4570 DATE: 970813 08:30:55  
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(76) CR10797 R/ROCKER @ B-PILLAR LONG 60C  
MAX = -.1820E-01 at 0.2900 MS MIN = -6.818 at 34.16 MS **AXIS 1**

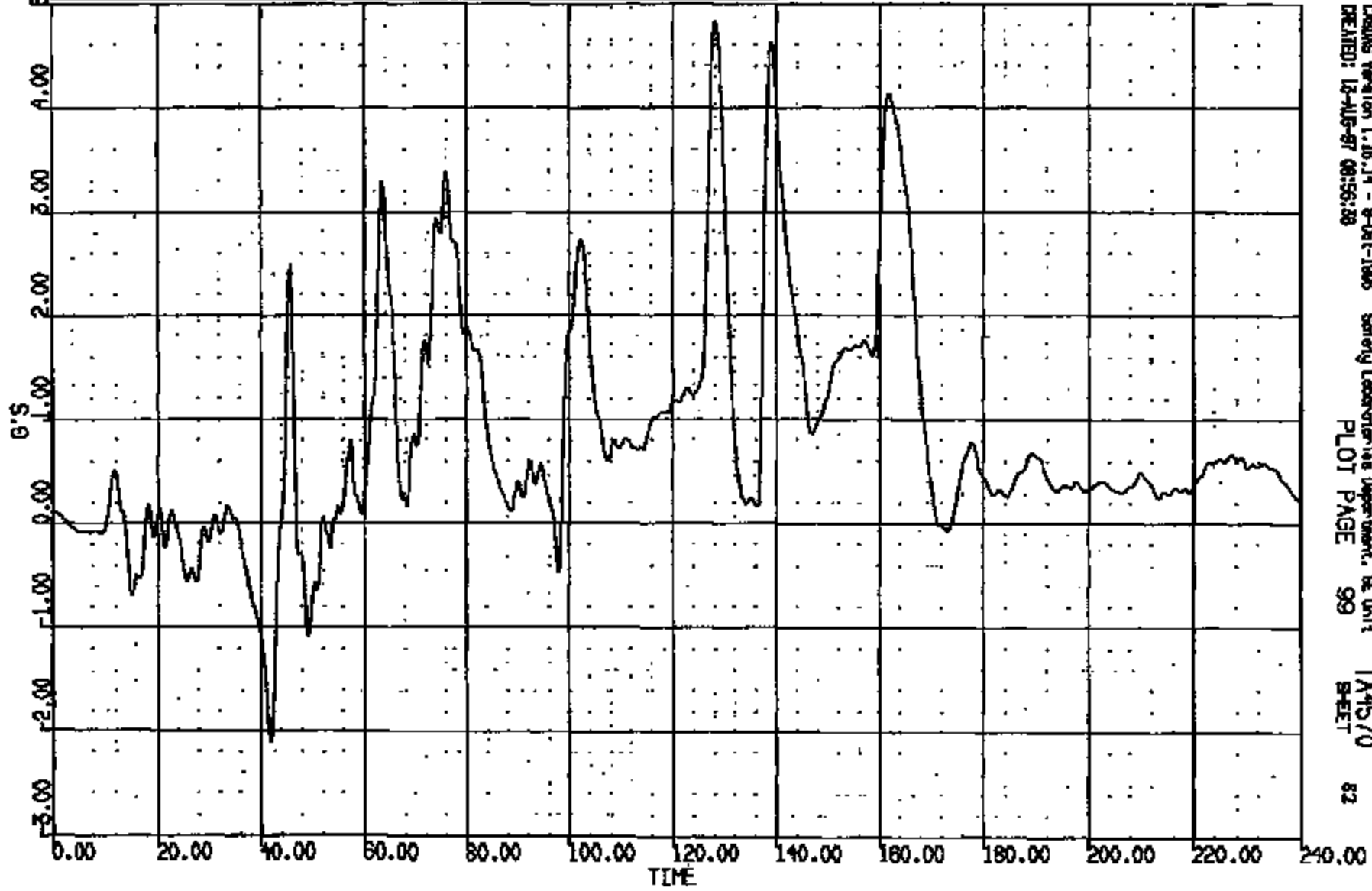


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81

CRTS 0010797

CR R: 10797 TO: TA4570 DATE: 870818 08:30:55  
189X DN-101

(77) CR10797T R/ROCKER @ B-PILLAR VERT 50C  
MAX = 4.829 at 128.2 MS MIN = -2.126 at 42.00 MS **AXIS 1**

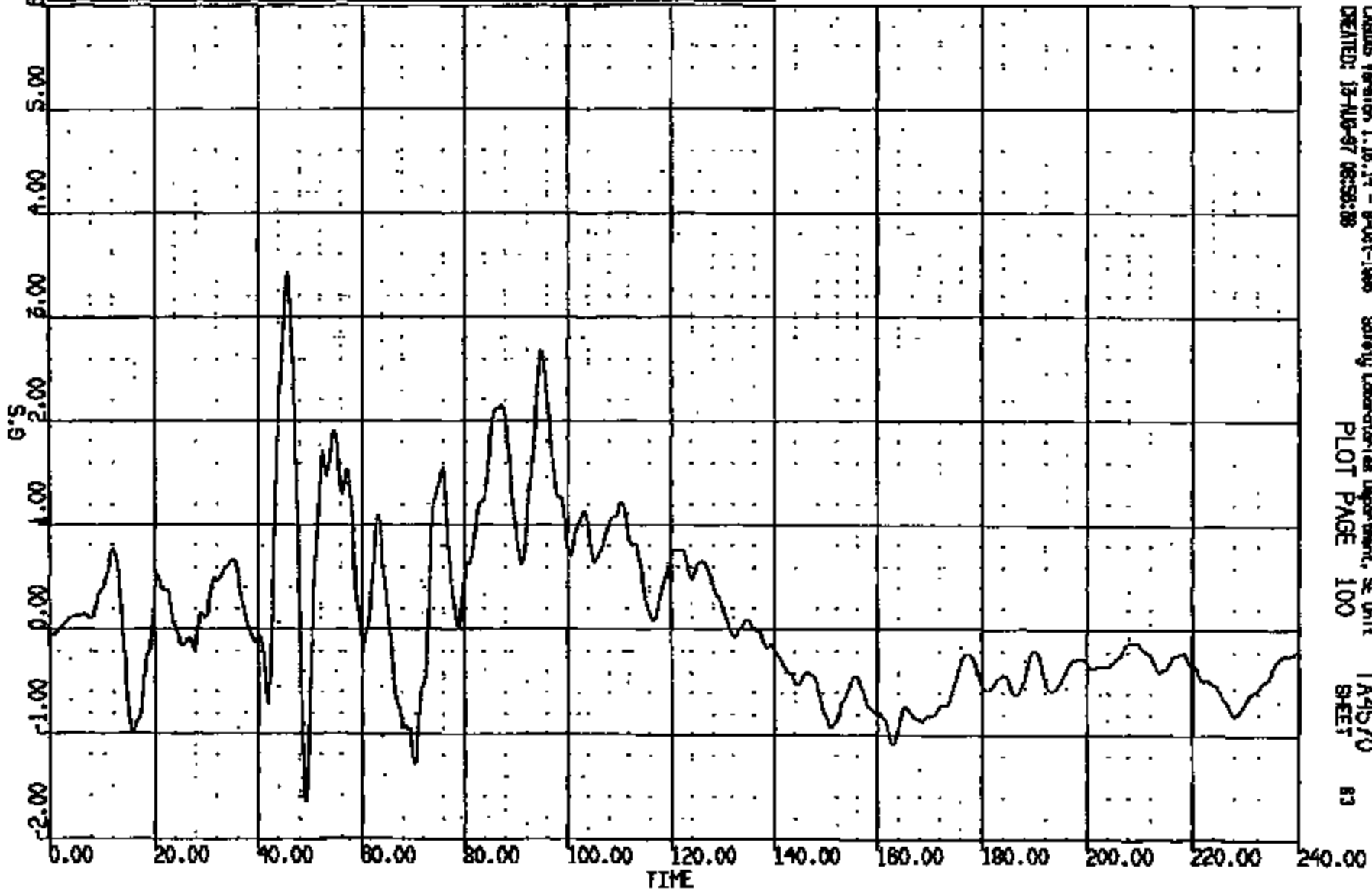


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CREATED: 12-AUG-87 08:56:28 PLOT PAGE 99 TA4570 SHEET 82

CRIS 0010797

CR R: 10797 TO: TA4570 DATE: 870813 08:50:55  
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(78) CR107977 R/ROCKER @ B-PILLAR LAT 50C  
MAX = 3.425 at 45.76 MS MIN = -1.673 at 49.12 MS **AXIS 1**

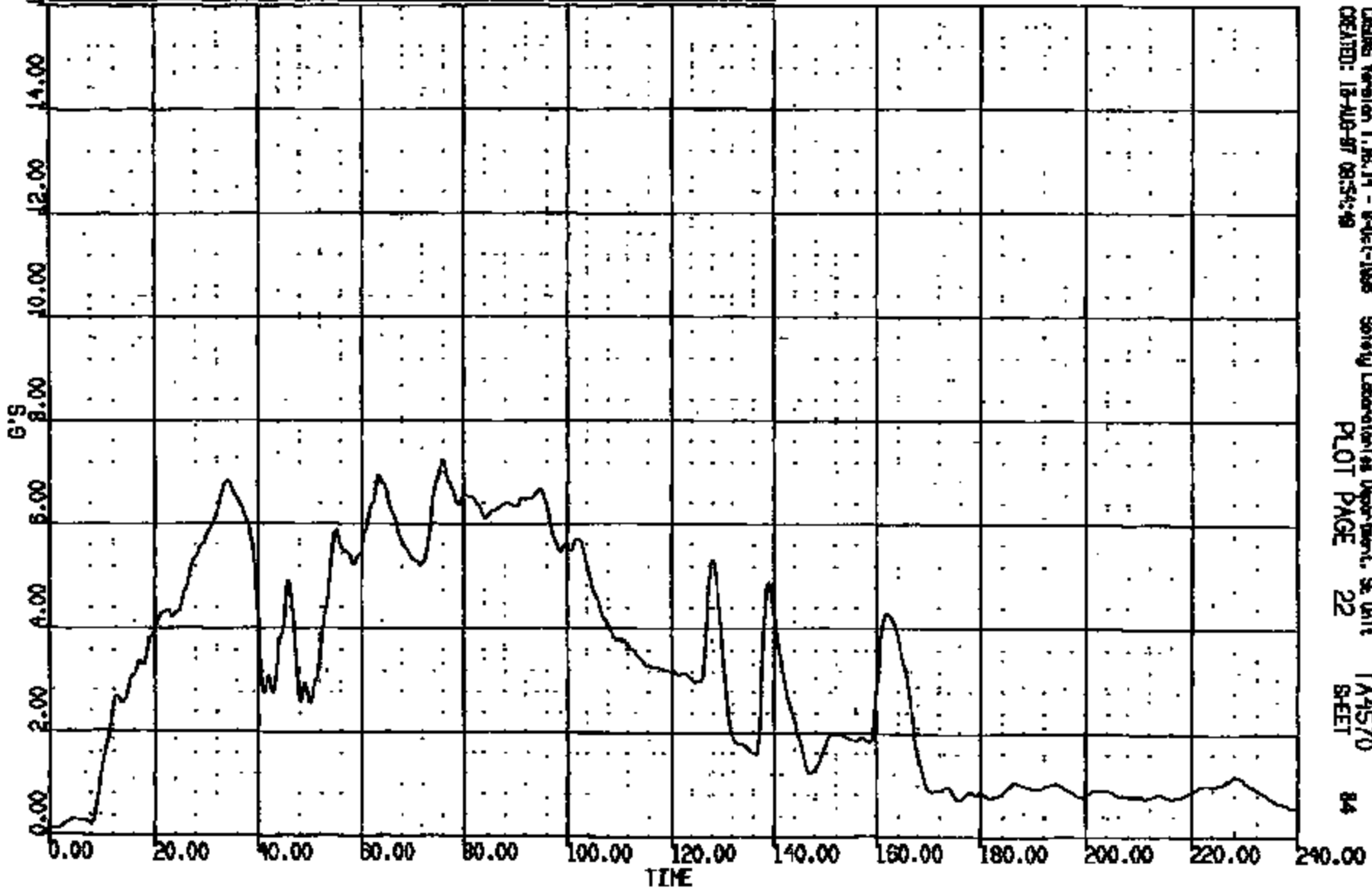


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CREATED: 13-AUG-87 08:58:08 PLOT PAGE 100 SHEET

CRIS 0010797

CR R: 10797 TO: TA4570 DATE: 970813 08:30:55  
199X DN-101

(10012) CR10797T R/ROCKER @ B-PILLAR RES 60C  
MAX = 7.298 at 75.81 NS MIN = 0.1120 at 1.360 NS **AXIS 1**



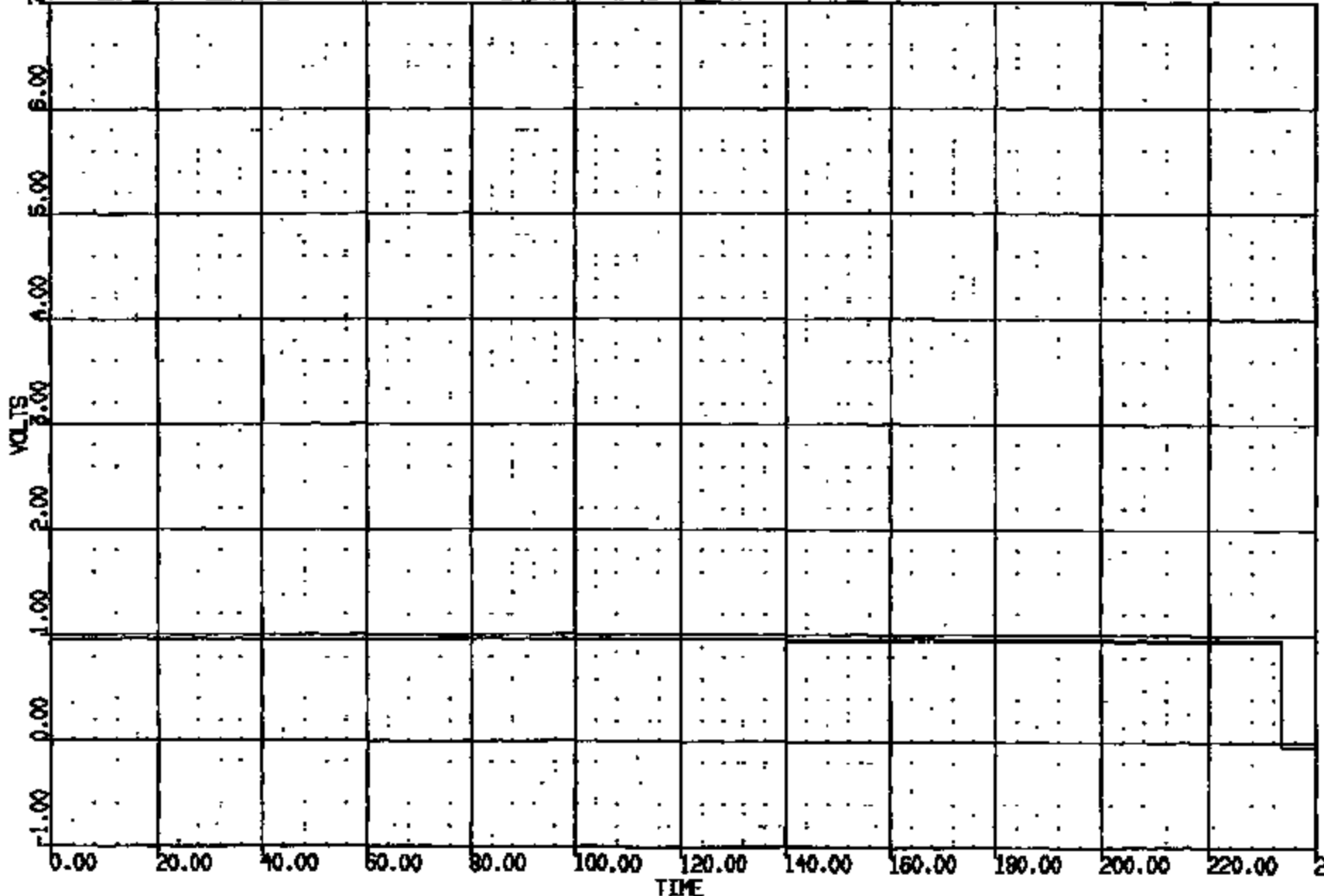
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CR 3: 10797 TO: TA4570 DATE: 870818 08:30:55  
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(79) CR10797 ALTERNATE T-ZERO SW 400C  
MIN = 0.9570 at -.7625E-15 MS MAX = -.4985E-01 at 233.6 MS

AXIS 1



CRSIS Version 1.18.14 - 8-Oct-1988 Safety Laboratory Department, SE Unit TA4570  
CREATED: 12-AUG-87 08:58:08 PLOT PAGE 101 SHEET 85

CRIS 0010797

ASC TO #: T- TA4570

DIMENSIONAL ANALYSIS REPORT

CRASH #: 10797

VEHICLE INFORMATION

TEST DESCRIPTION:	90 DEG. FRONT OFFSET BARRIER
VEHICLE PROGRAM YEAR:	199X
VEHICLE MODEL NAME:	DM-101
VEHICLE PROGRAM NAME:	DM-101
VEHICLE ID NUMBER:	318TE91
CERTIFICATION VEHICLE CODE:	DV
REQUESTOR NAME:	B. B. BLANK
TEST ENGINEER NAME:	S. FINGSTON

TIME AND DATE OF REPORT: 28-OCT-97 10:41:37

CRIS 0010797

## \*\* POINT COORDINATES \*\*

## INCHES CHANGED

UNIT NO	SIDE	FEET NO	DESCRIPTION		INCHES			INCHES CHANGED					
					LONG X	LAT Y	VERT E	X	Y	S	D		
650			BLANK UNIT POINTS										
		01	1	SEE COMMENTS PAGE	REF AFT	81.51	2.80	22.53					
		02	2	SEE COMMENTS PAGE	REF AFT	130.35	-27.92	22.09					
		03	3	SEE COMMENTS PAGE	REF AFT	130.29	20.06	21.85					
		04	4	SEE COMMENTS PAGE	REF AFT	91.28	0.11	22.69					
		05	5	SEE COMMENTS PAGE	REF AFT	111.44	-14.86	15.09					
		06	6	SEE COMMENTS PAGE	REF AFT	111.48	14.63	15.92					
		07	7	SEE COMMENTS PAGE	REF AFT	112.97	0.11	18.74					
		08	8	SEE COMMENTS PAGE	REF AFT	118.84	-14.25	15.36					
		09	9	SEE COMMENTS PAGE	REF AFT	118.84	14.81	15.42					
		10	10	SEE COMMENTS PAGE	REF AFT	34.60	2.47	35.24					
		11	11	SEE COMMENTS PAGE	REF AFT	34.78	-7.61	34.77					
		12	12	SEE COMMENTS PAGE	REF AFT	34.64	8.53	34.67					
		13	13	SEE COMMENTS PAGE	REF AFT	19.84	15.75	36.44					

\* VALUE WAS TRANSLATED

TIME AND DATE OF REPORT: 28-OCT-97 10:41:37

PAGE 1

CRIS 0010797

T-244570  
87



UNIT NO	SIDE	PMT NO	DESCRIPTION	REF APT	** POINT COORDINATES **			INCHES CHANGED			
					LONG X	LAT Y	VERT Z	X	Y	Z	D
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		16	SEE COMMENTS PAGE	REF APT	114.85	-34.00	26.01				
		17	SEE COMMENTS PAGE	REF APT	115.34	33.90	25.85				
		18	SEE COMMENTS PAGE	REF APT	100.43	1.94	19.13				
		19	SEE COMMENTS PAGE	REF APT	105.25	2.06	19.13				
		20	SEE COMMENTS PAGE	REF APT	97.82	-31.26	17.68				
		21	SEE COMMENTS PAGE	REF APT	96.54	31.19	17.73				
		22	SEE COMMENTS PAGE	REF APT	116.74	-31.27	17.53				
		23	SEE COMMENTS PAGE	REF APT	116.11	31.07	17.56				

\* VALUE WAS TRANSLATED

TIME AND DATE OF REPORT: 26-OCT-97 10:41:37

PAGE 2

CRIS 0010797

88  
T-1A4570

MSC TO #: T- 124570

DIMENSIONAL ANALYSIS REPORT

CRASH #: 10797

\*\* COMMENTS \*\*

CRTS 0010797

TIME AND DATE OF REPORT: 28-OCT-97 10:41:37

PAGE 1

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T-124570

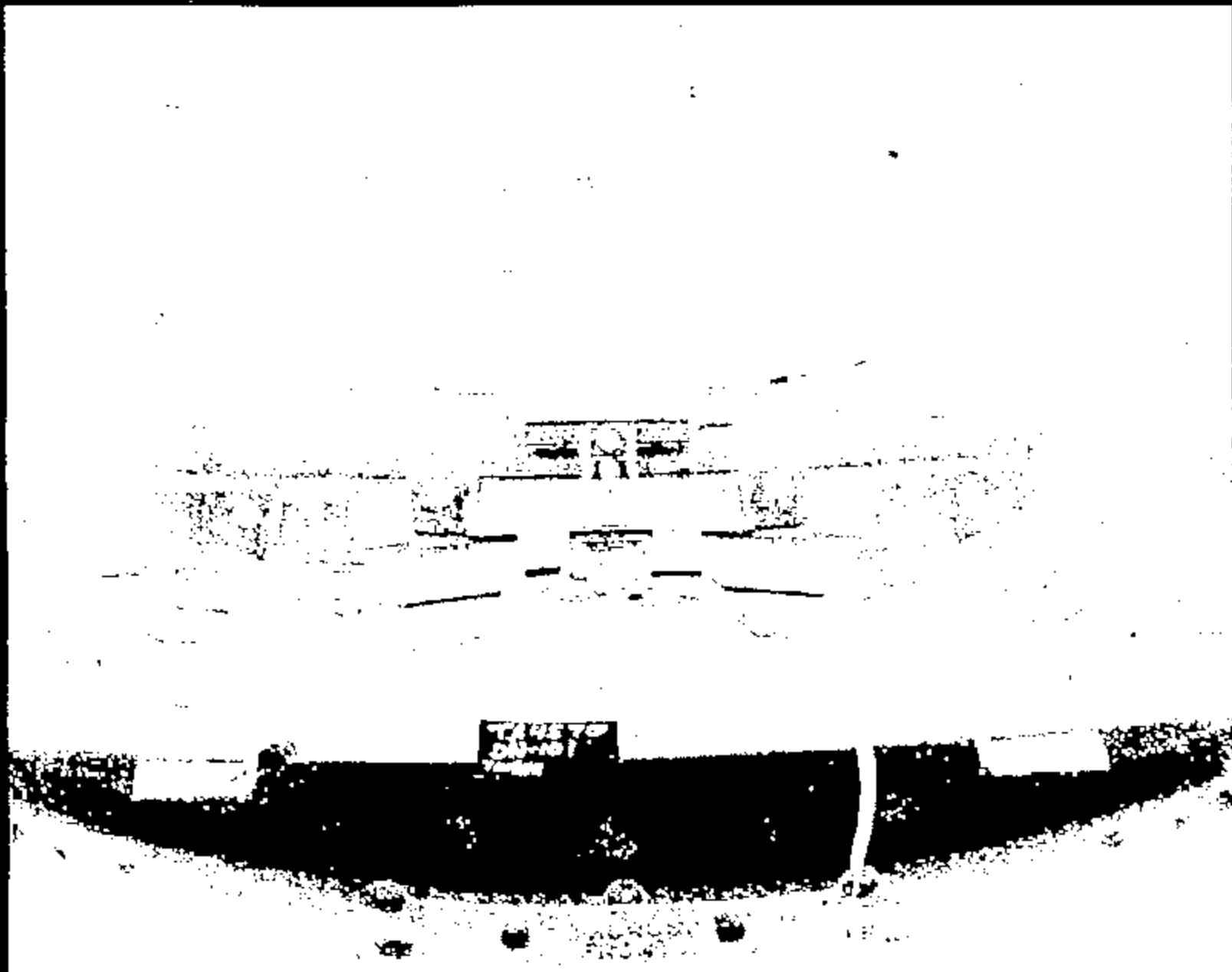
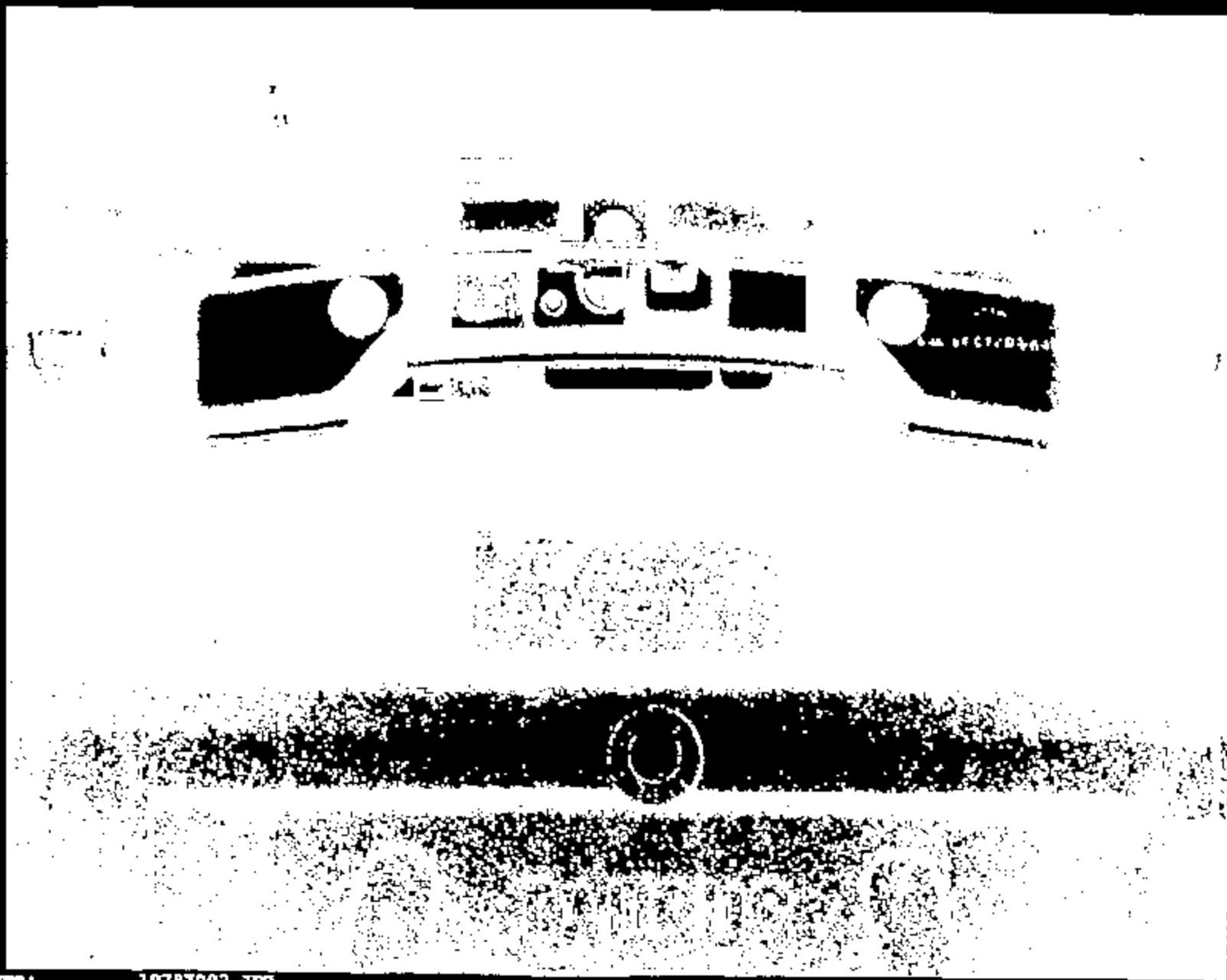


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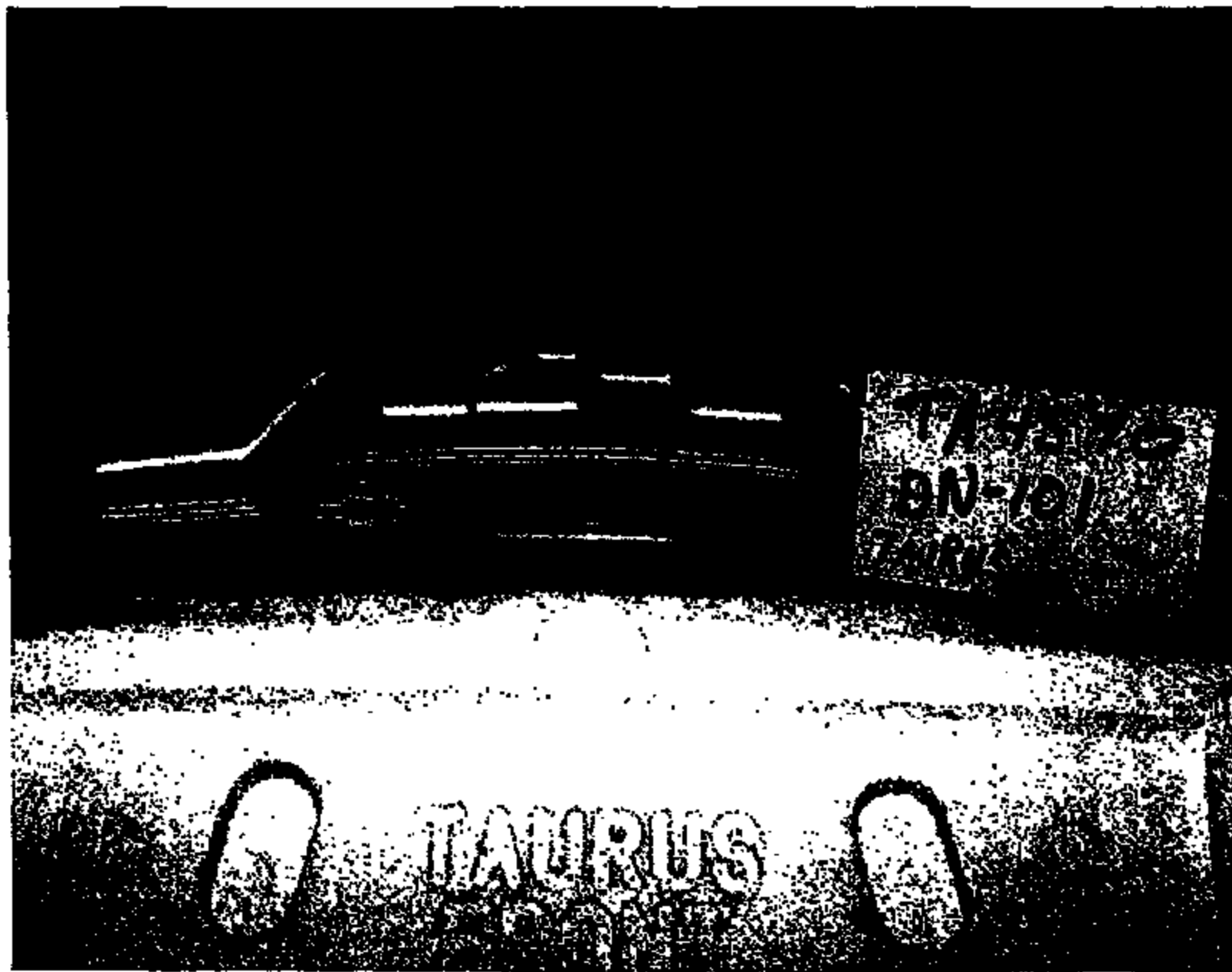
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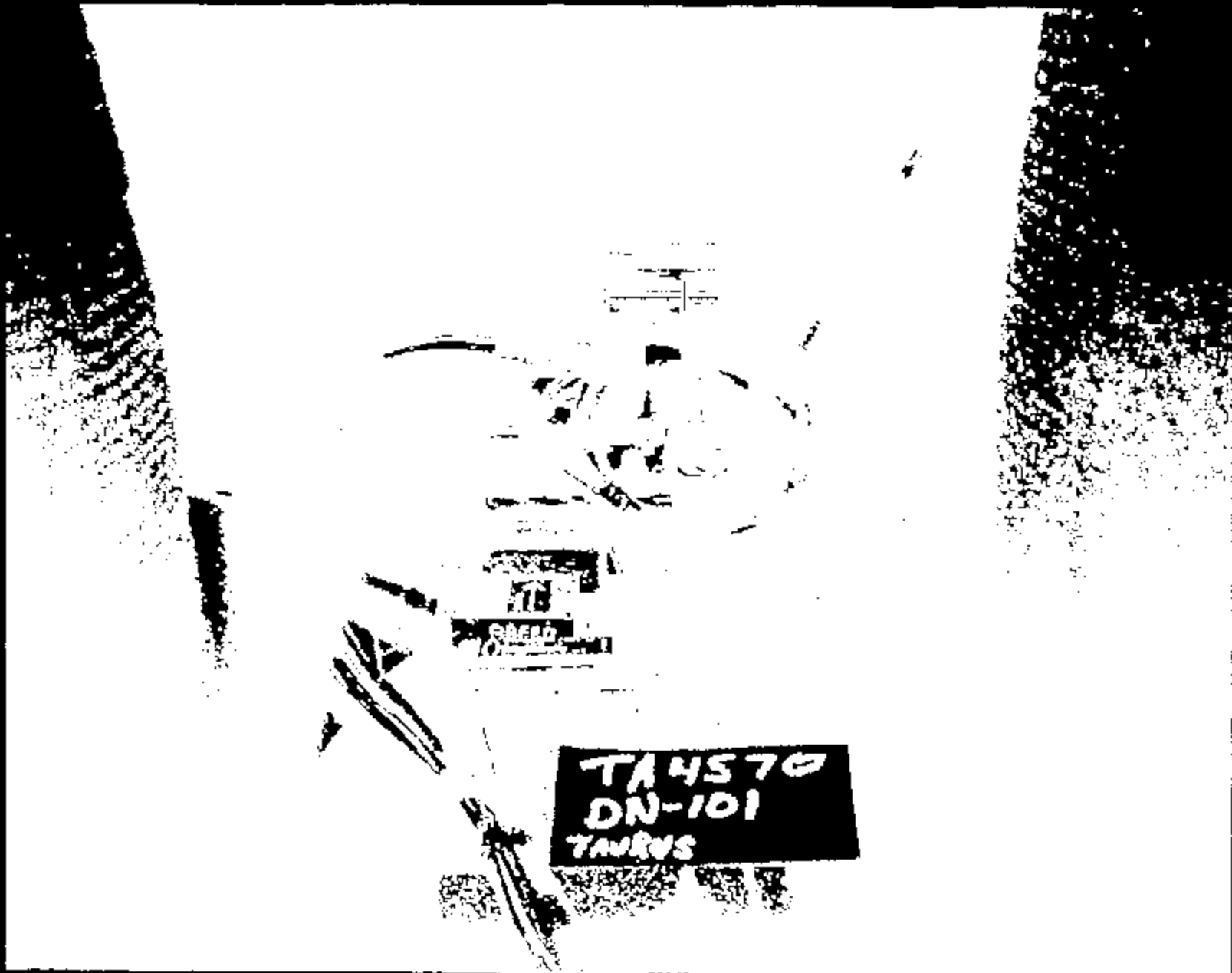
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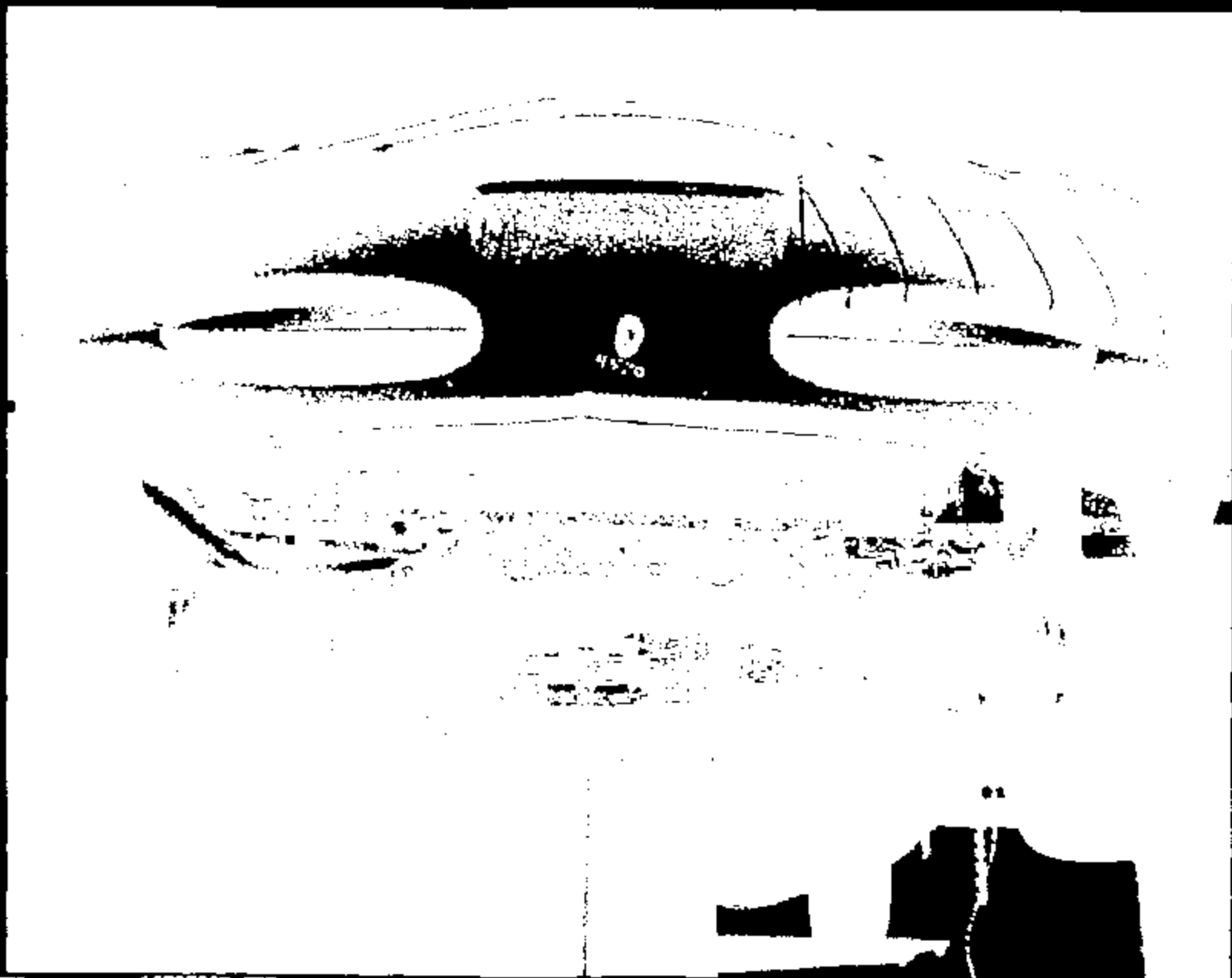
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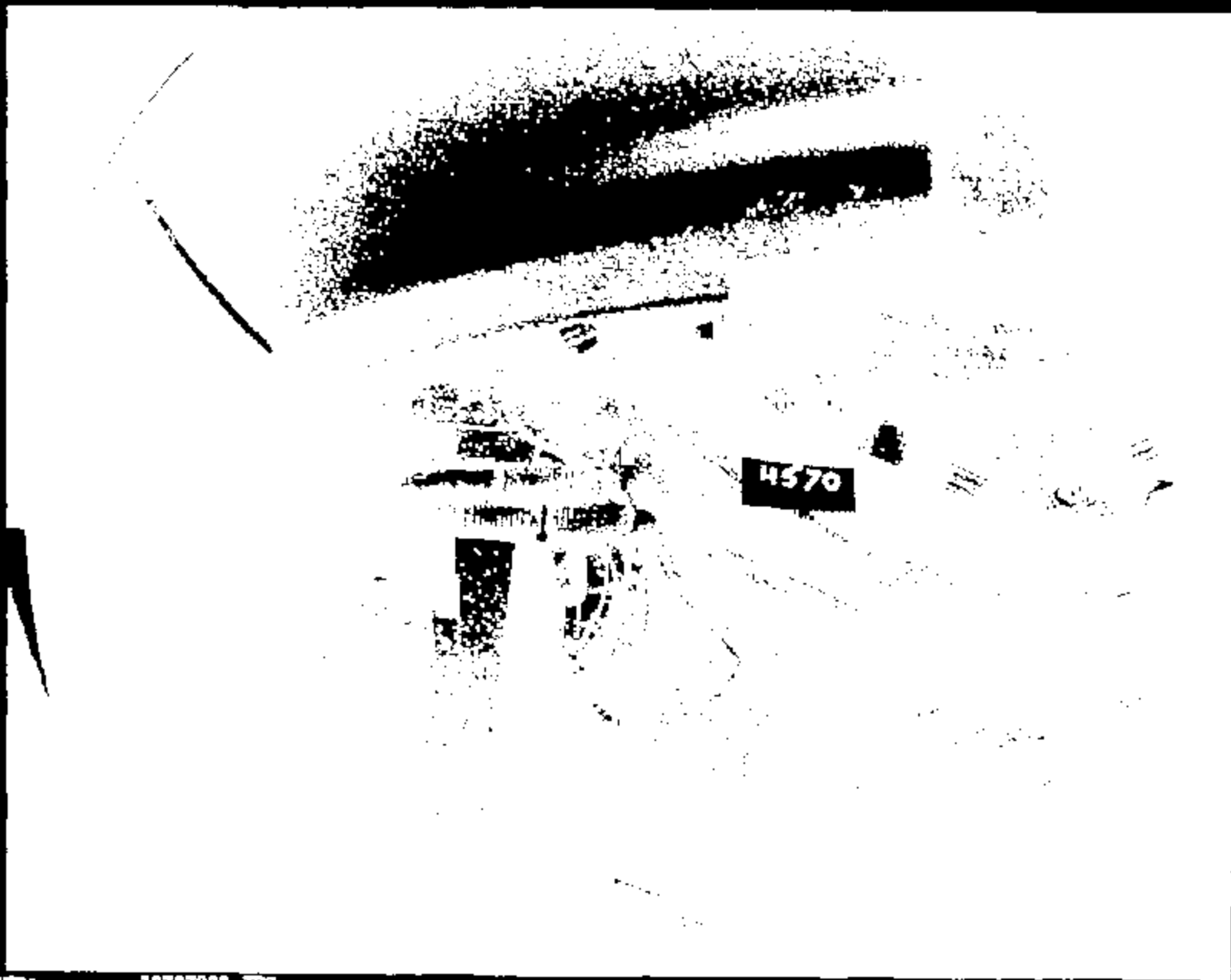




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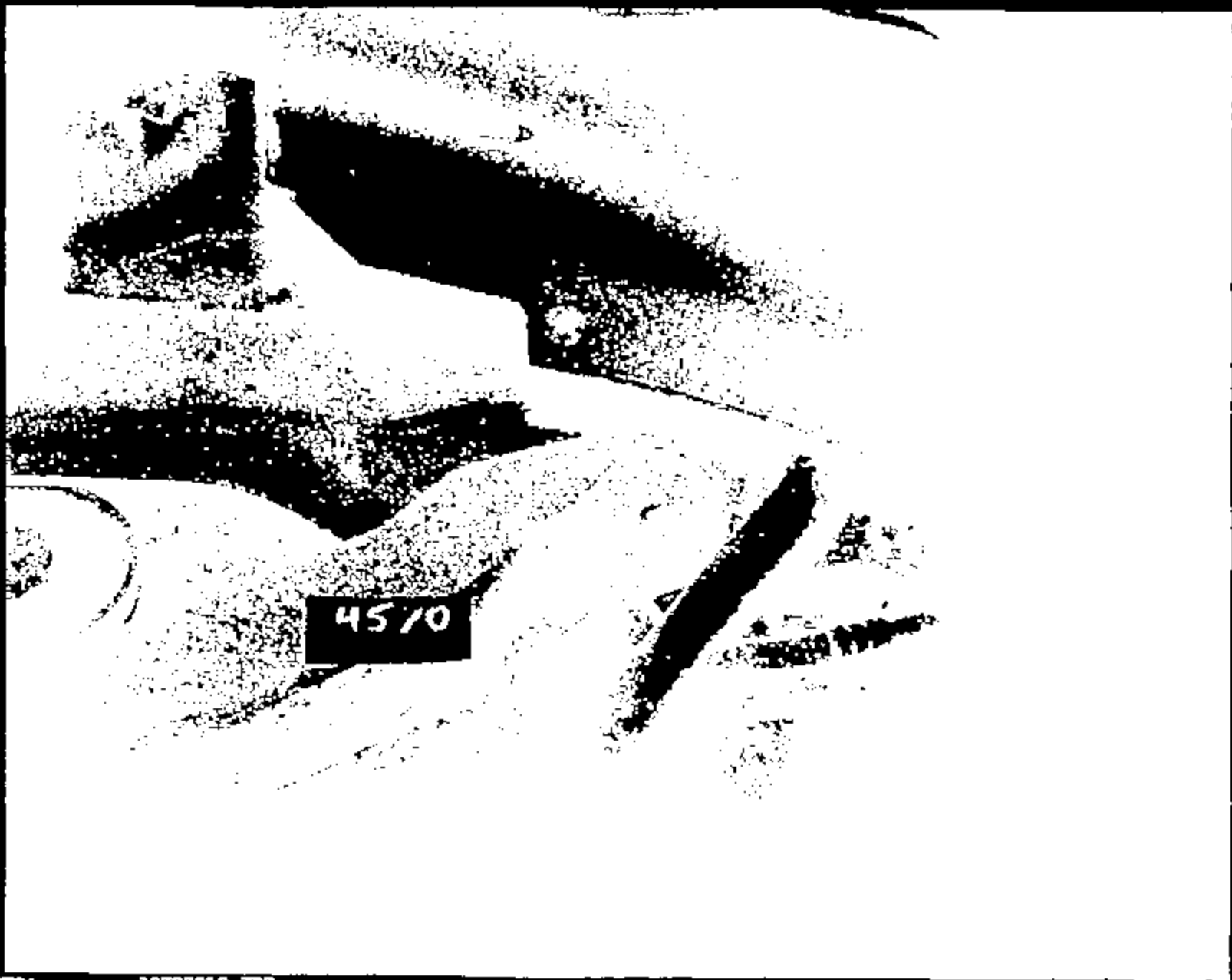
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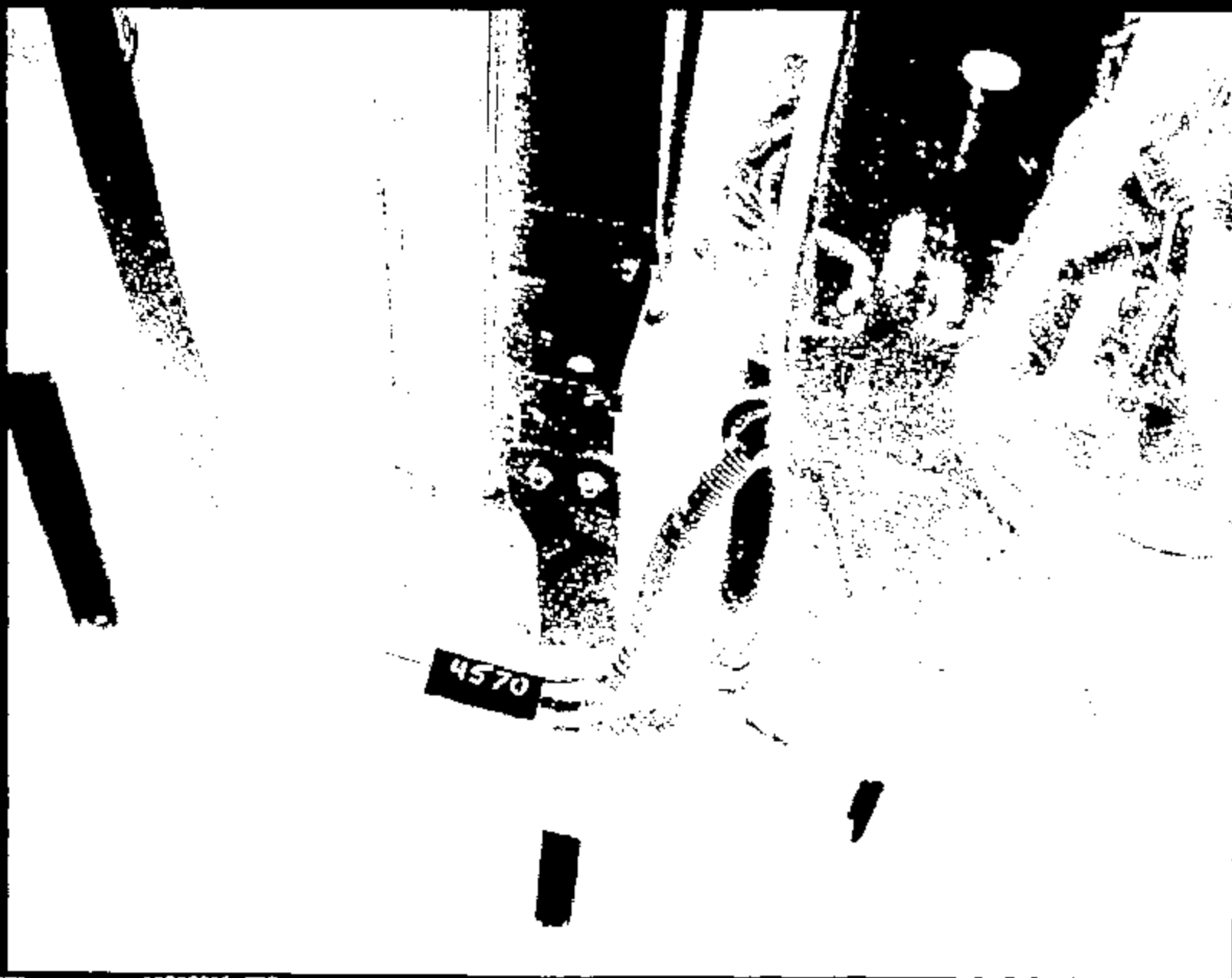
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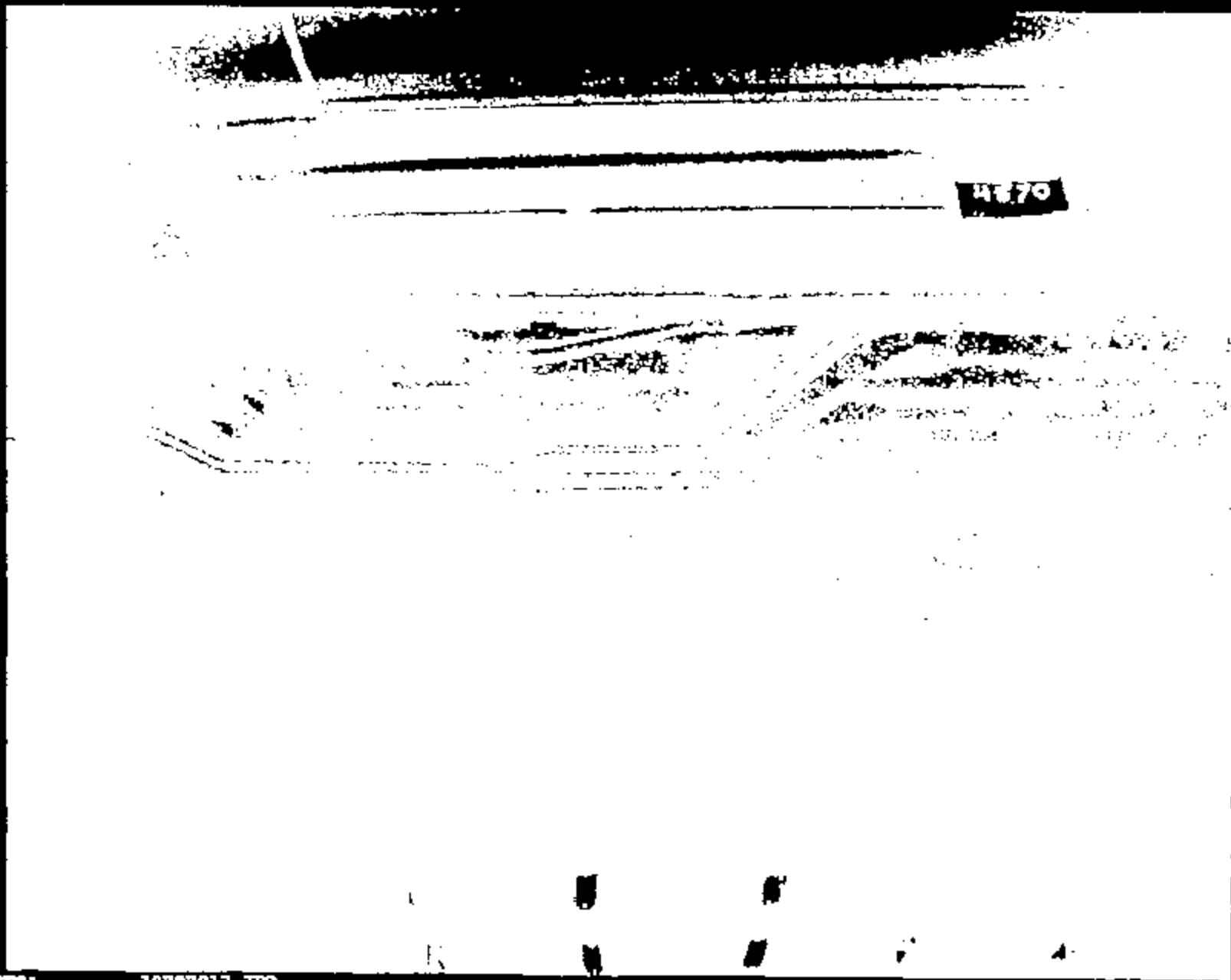
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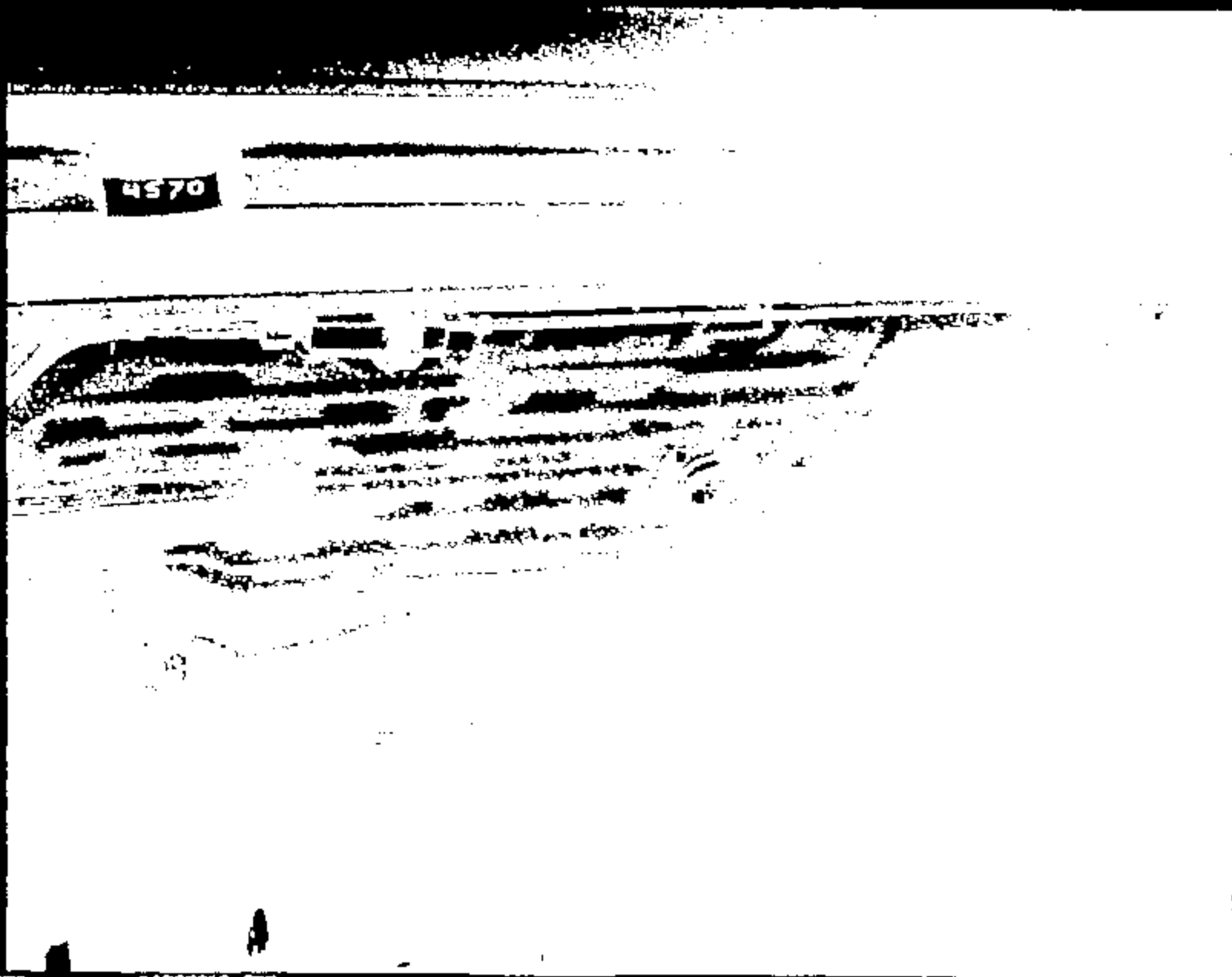


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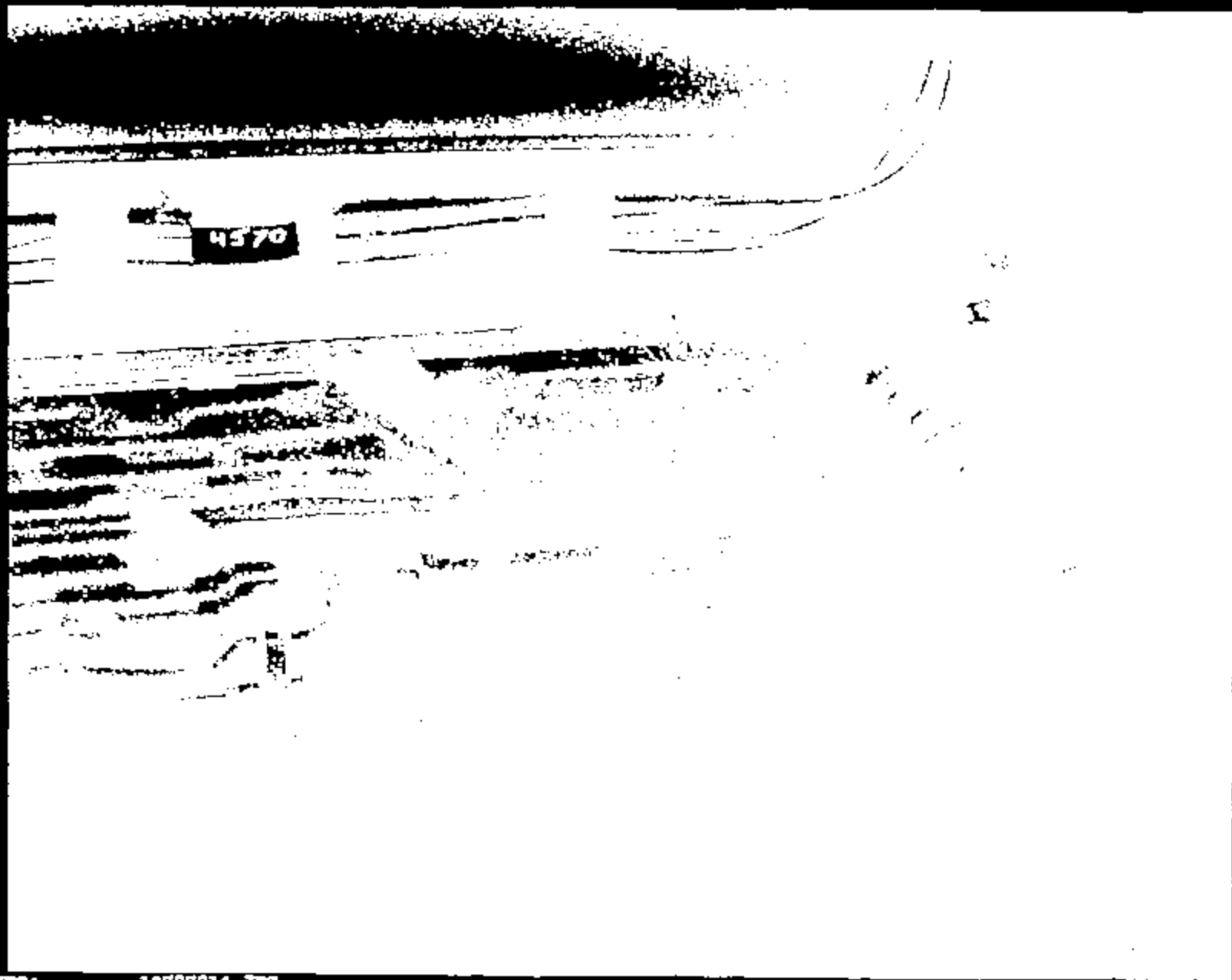
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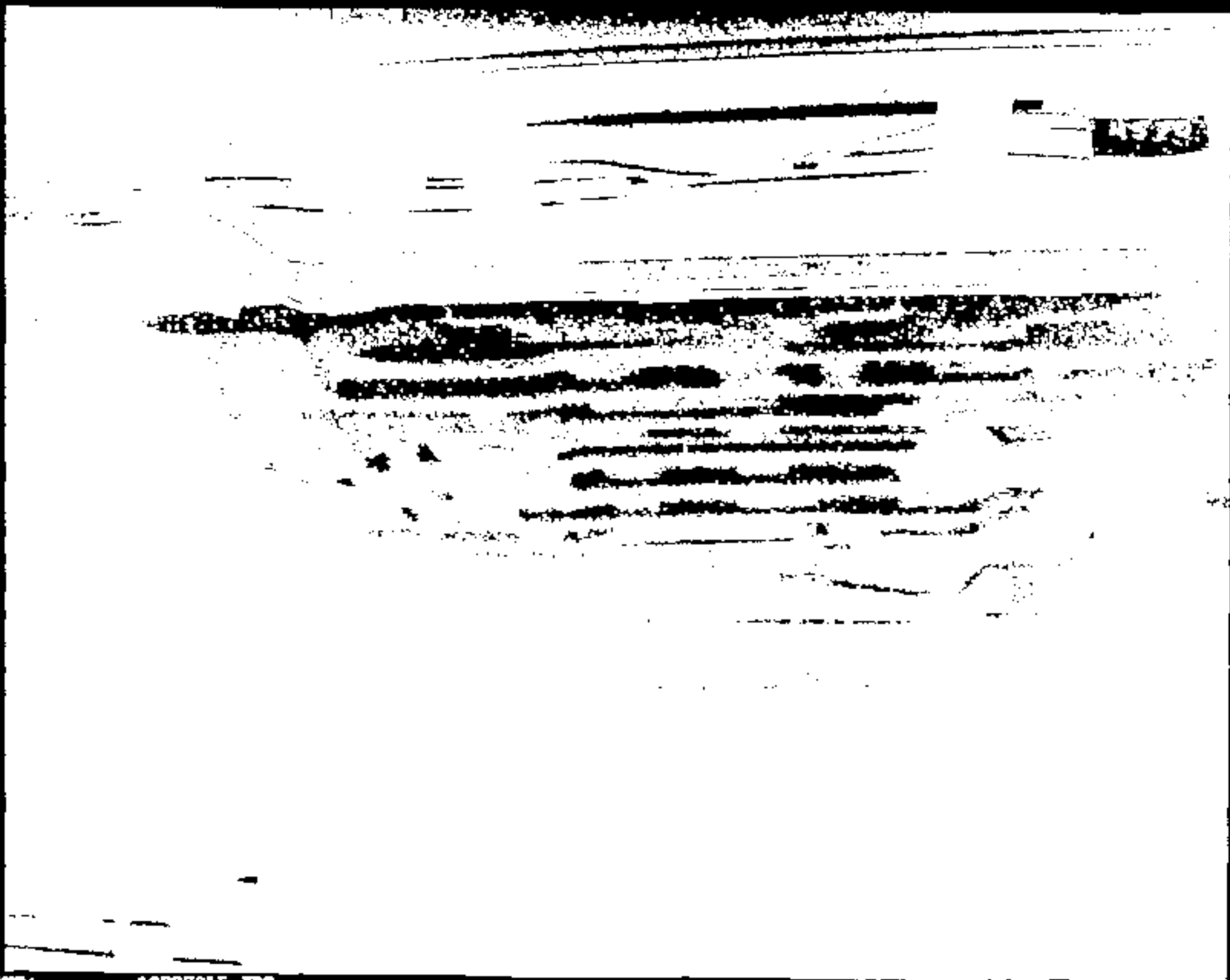


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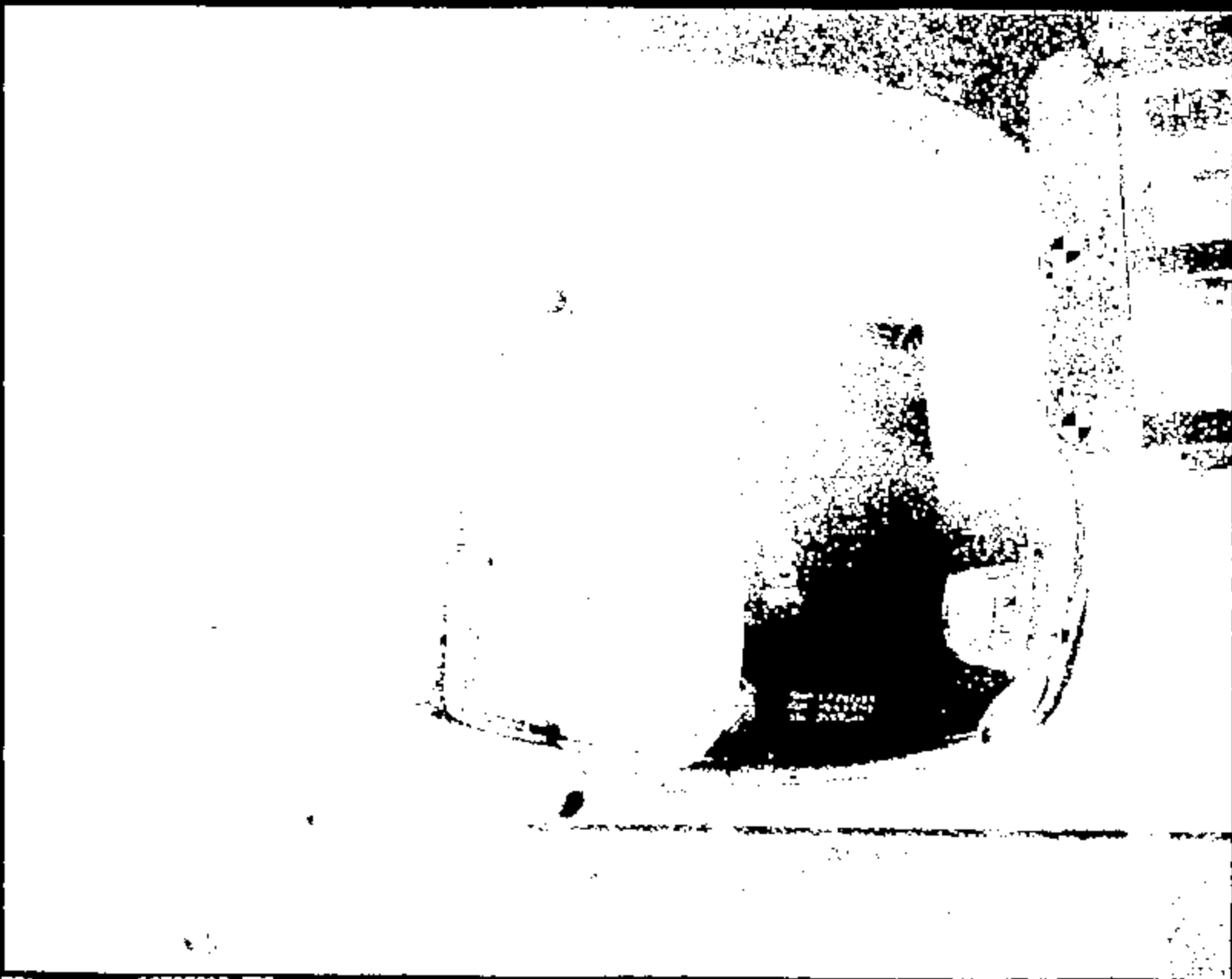
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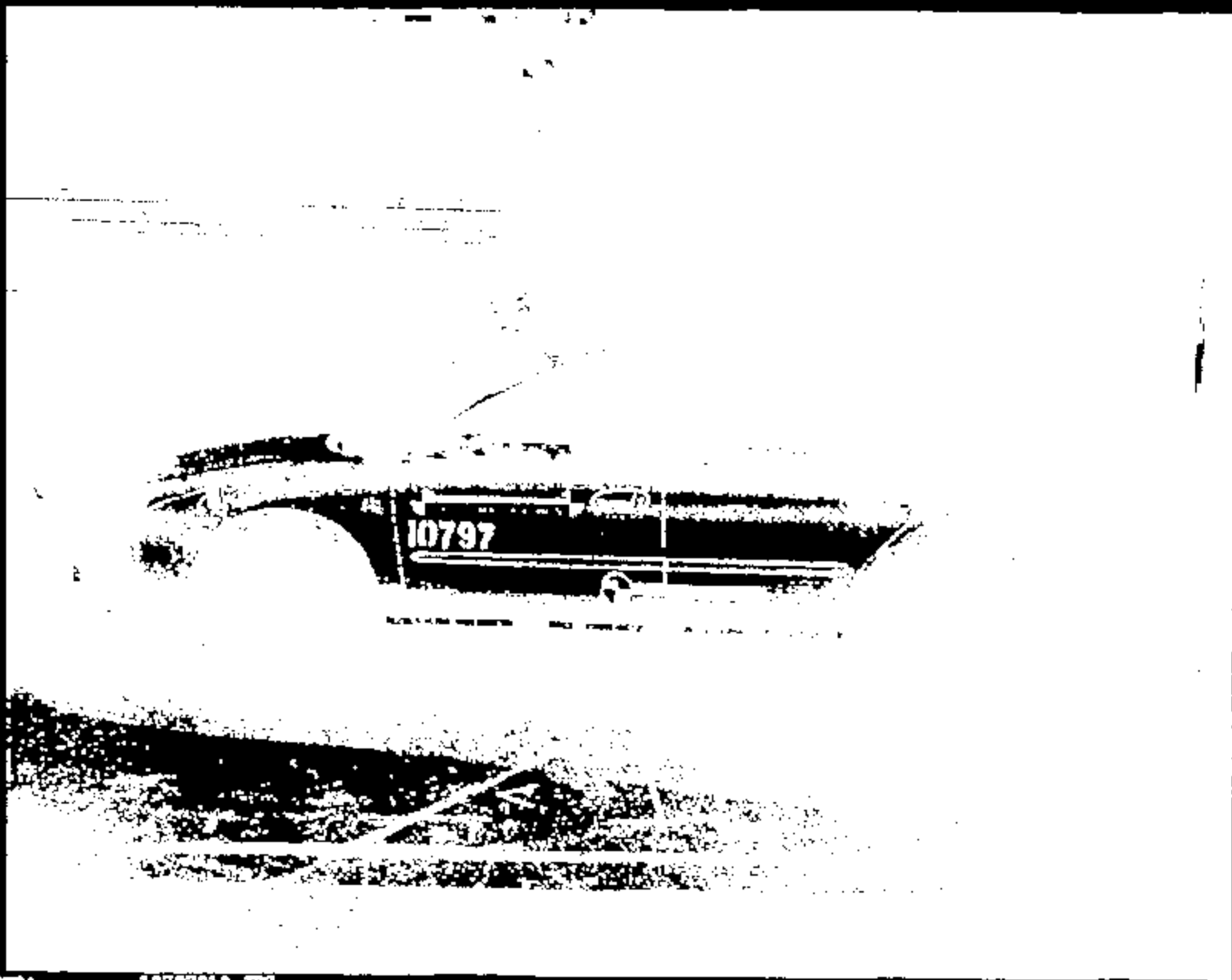
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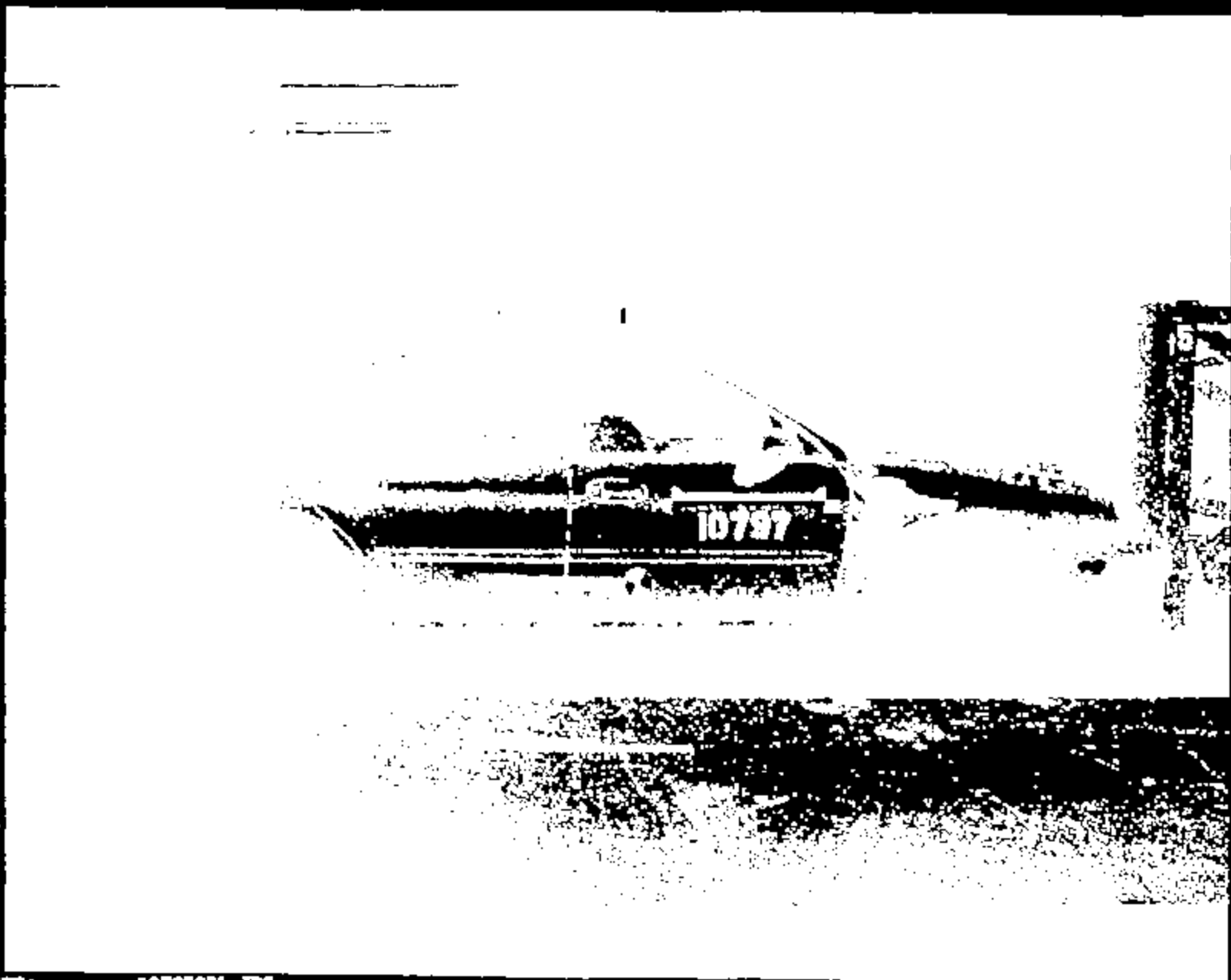
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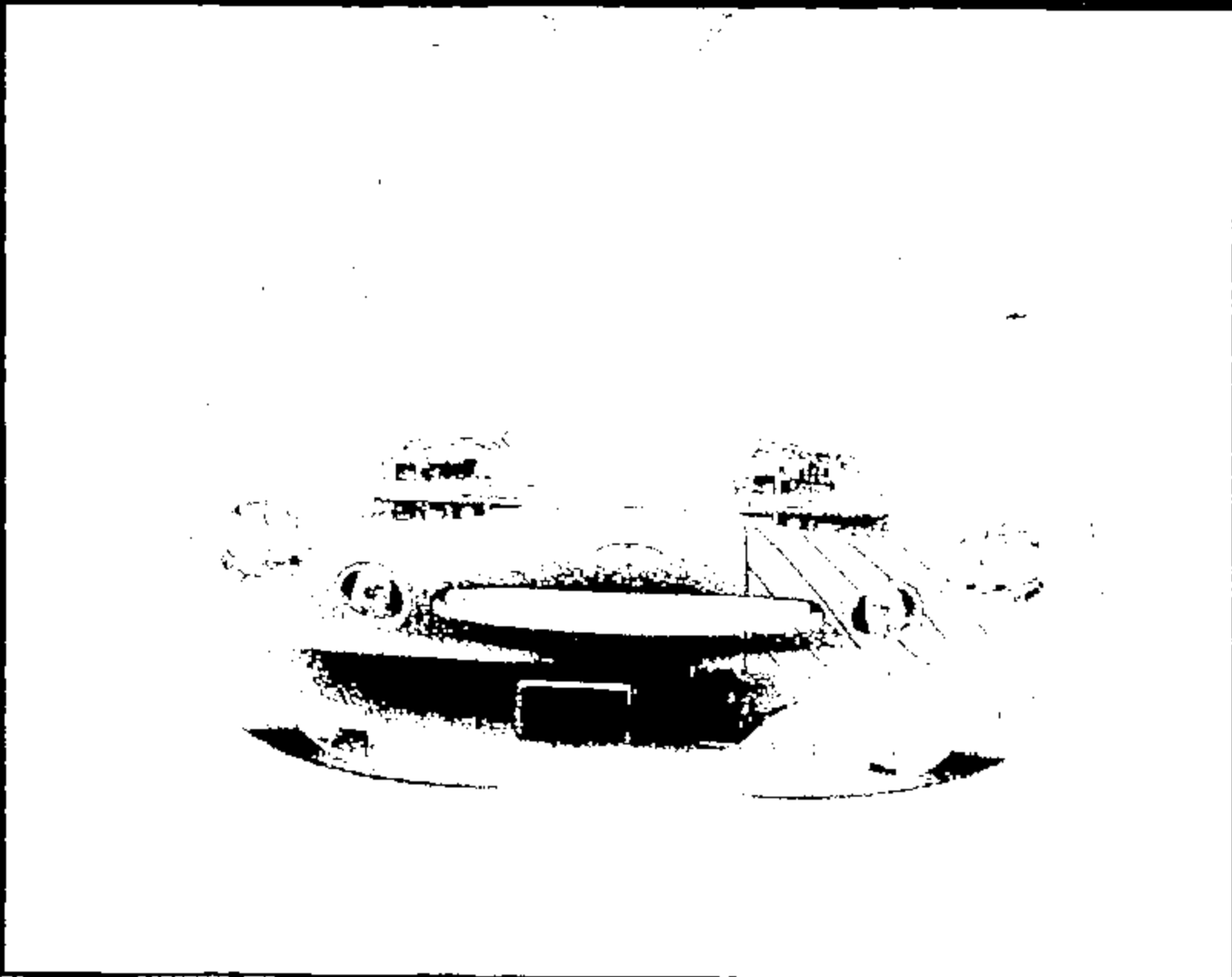
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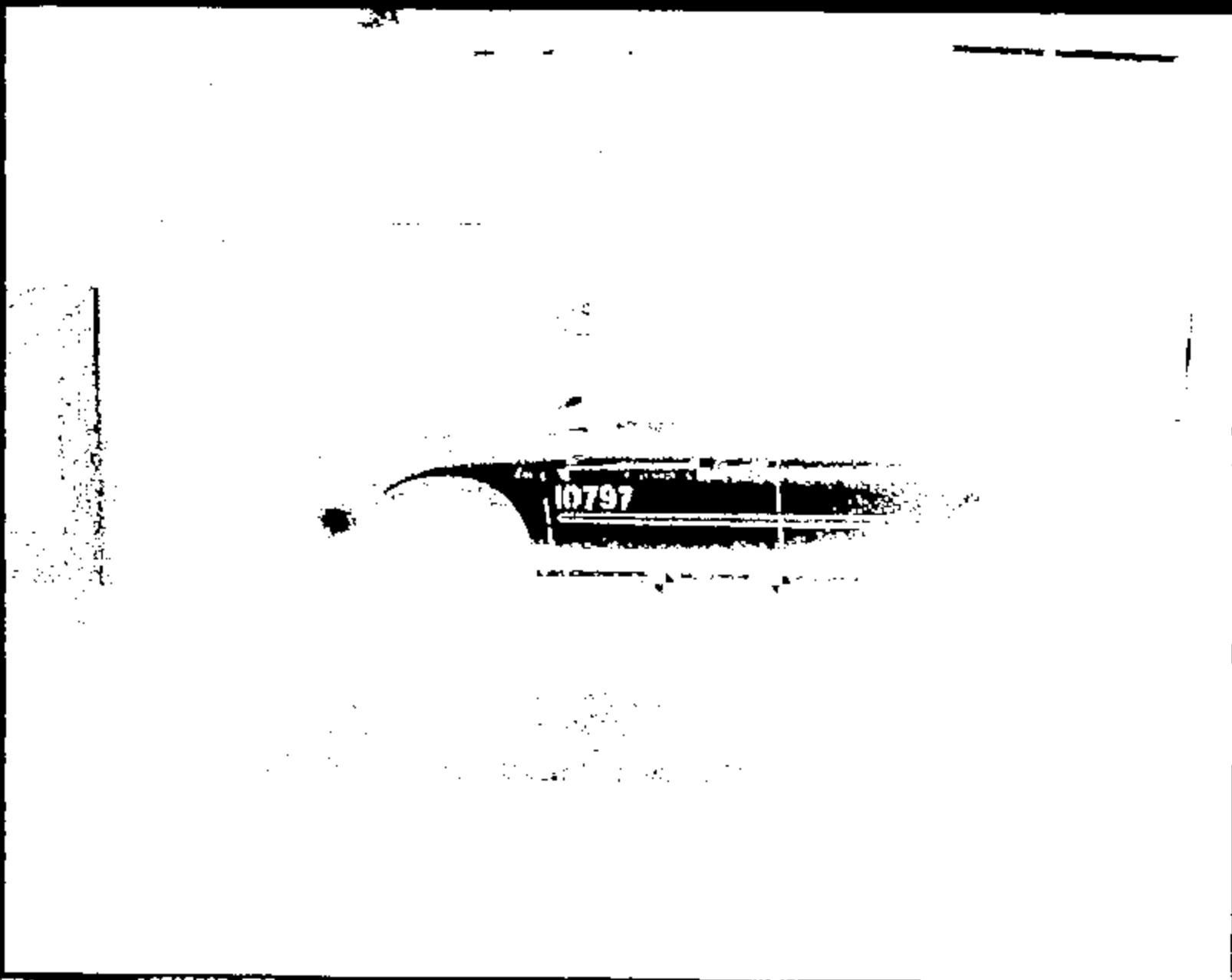


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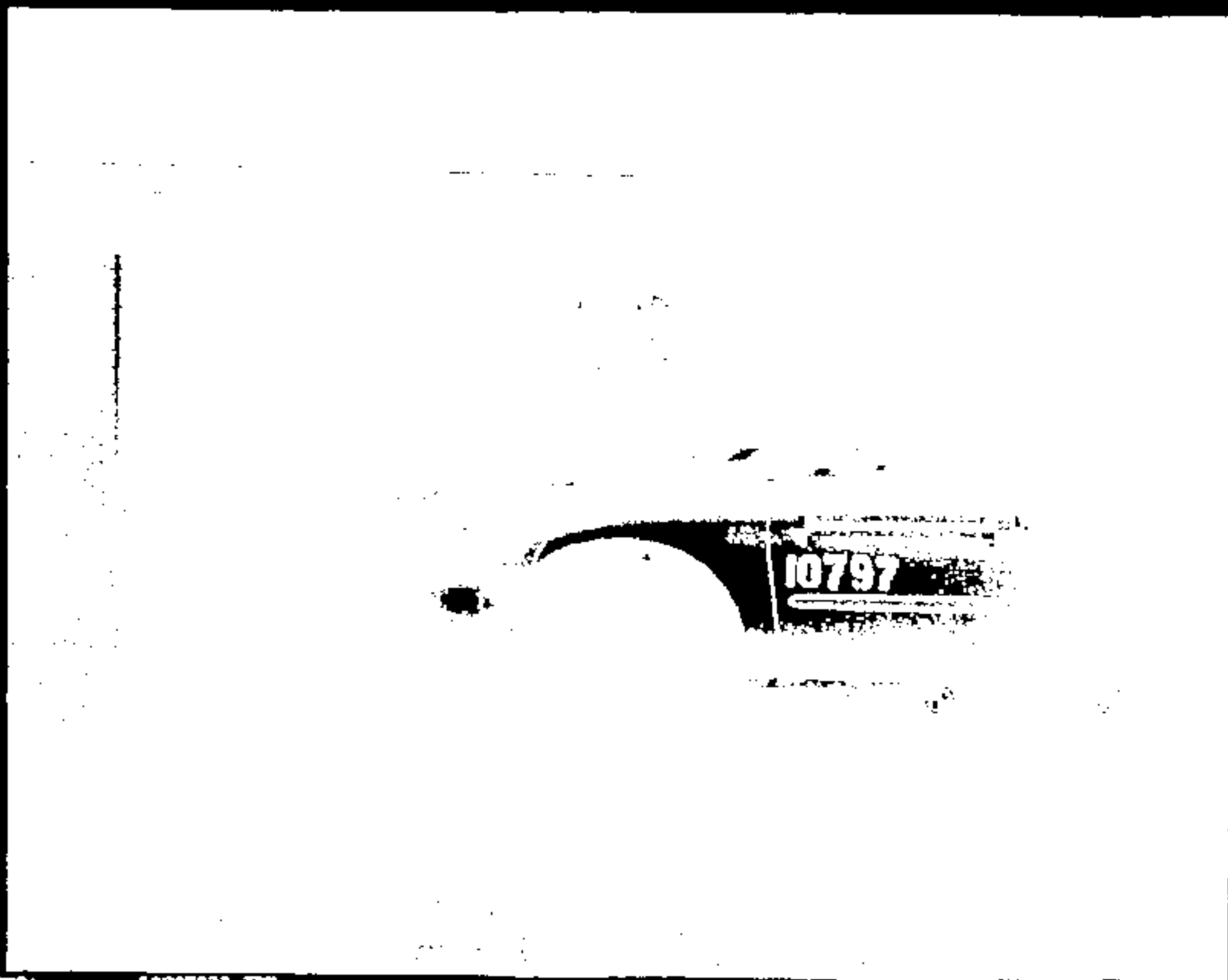
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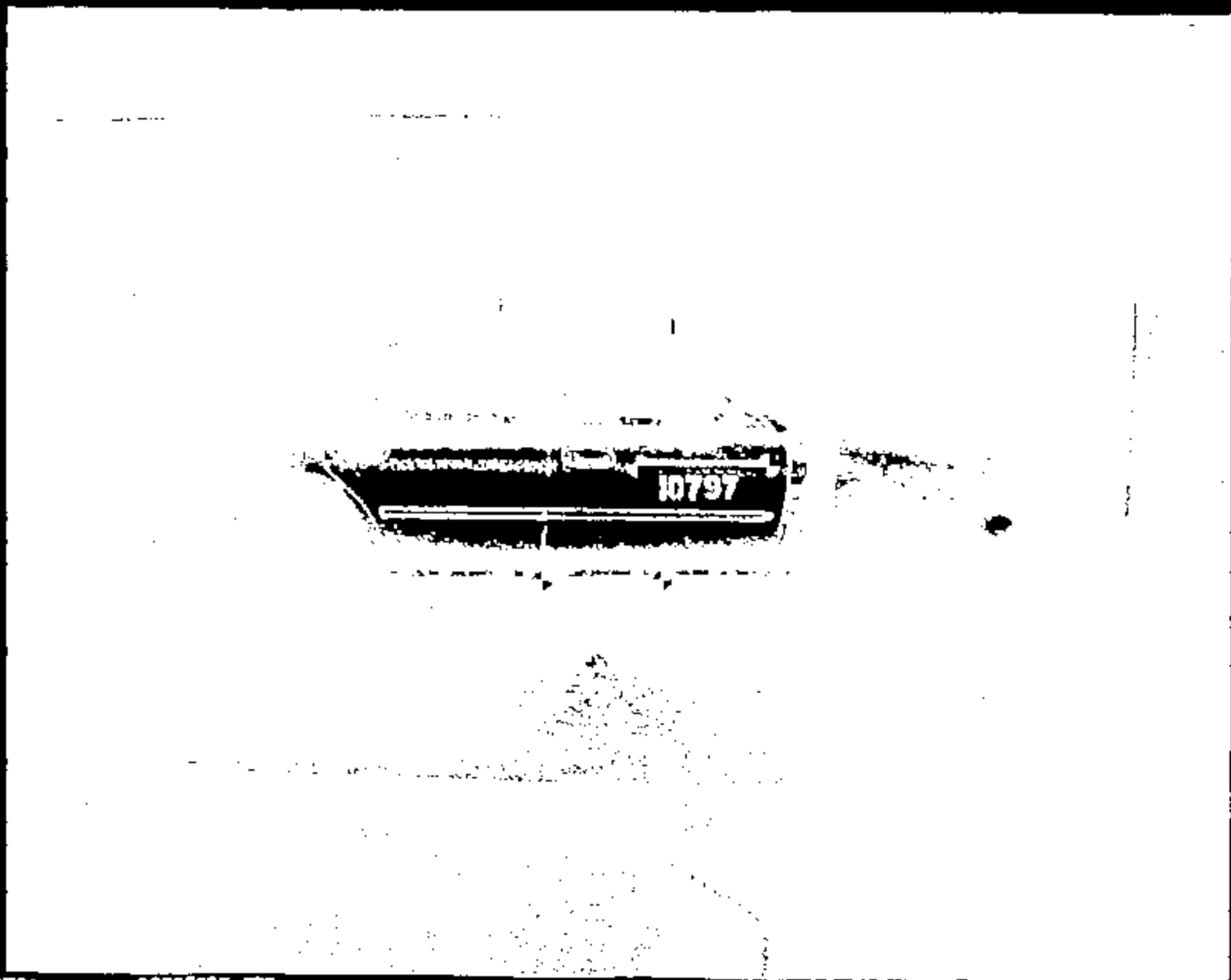
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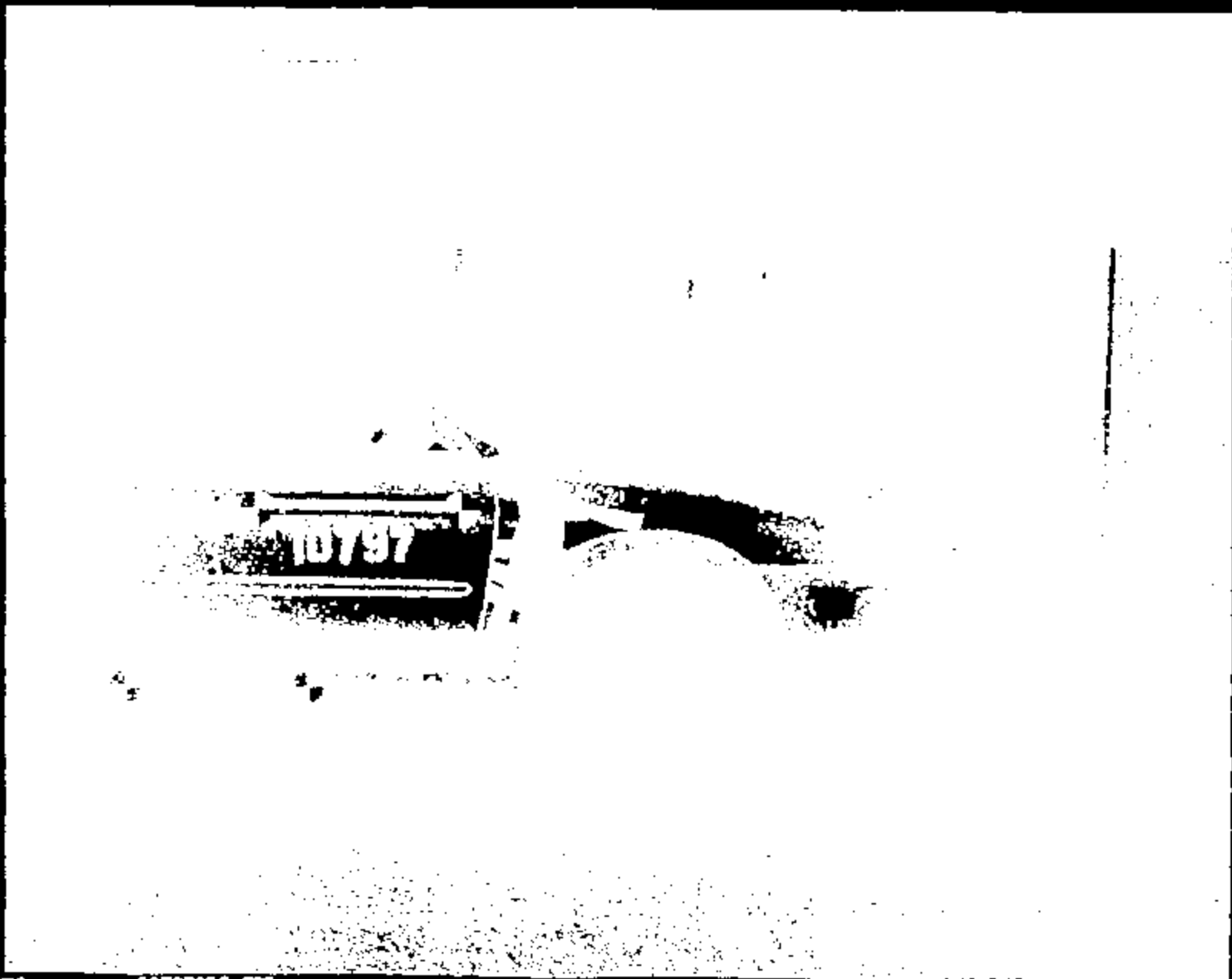
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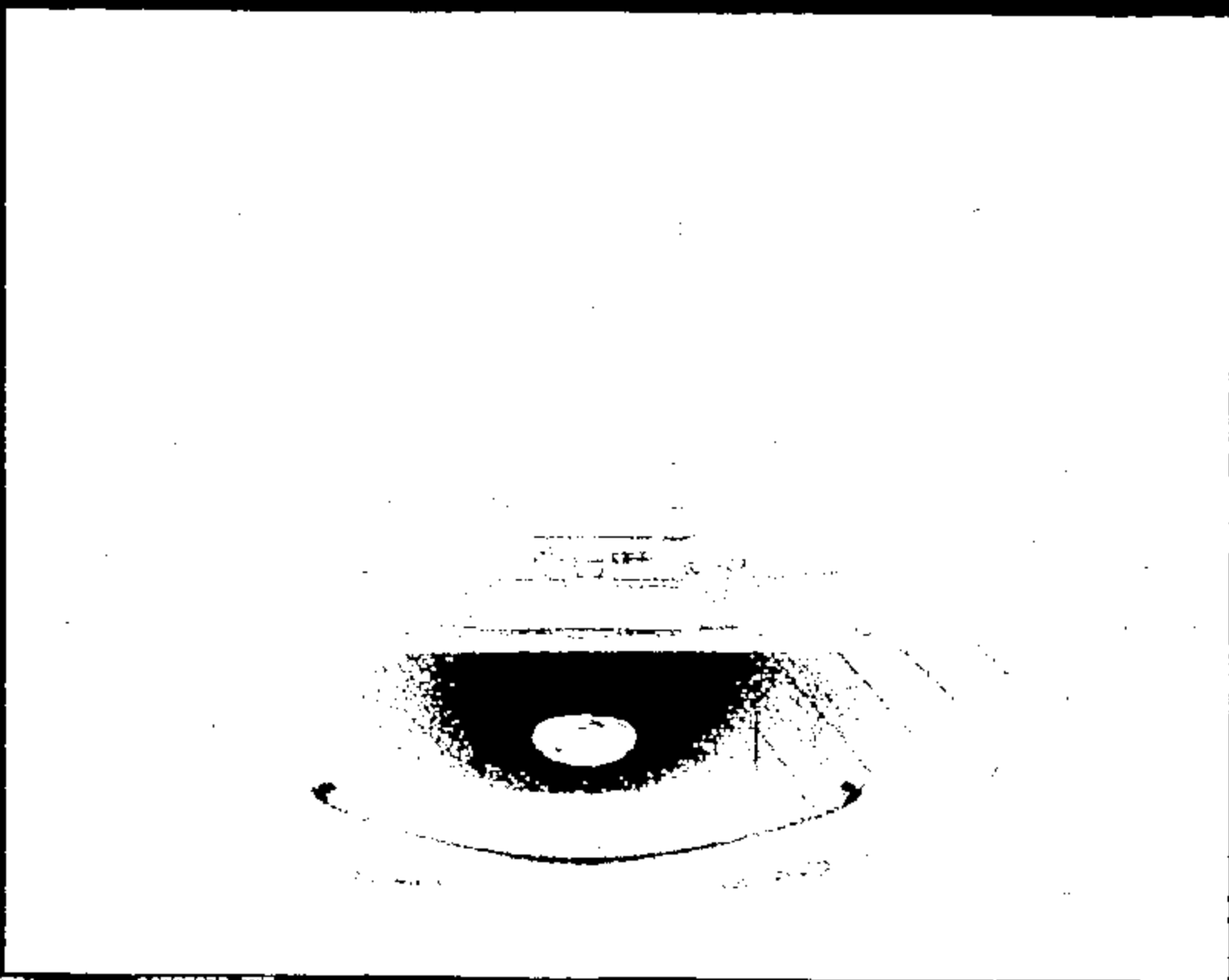
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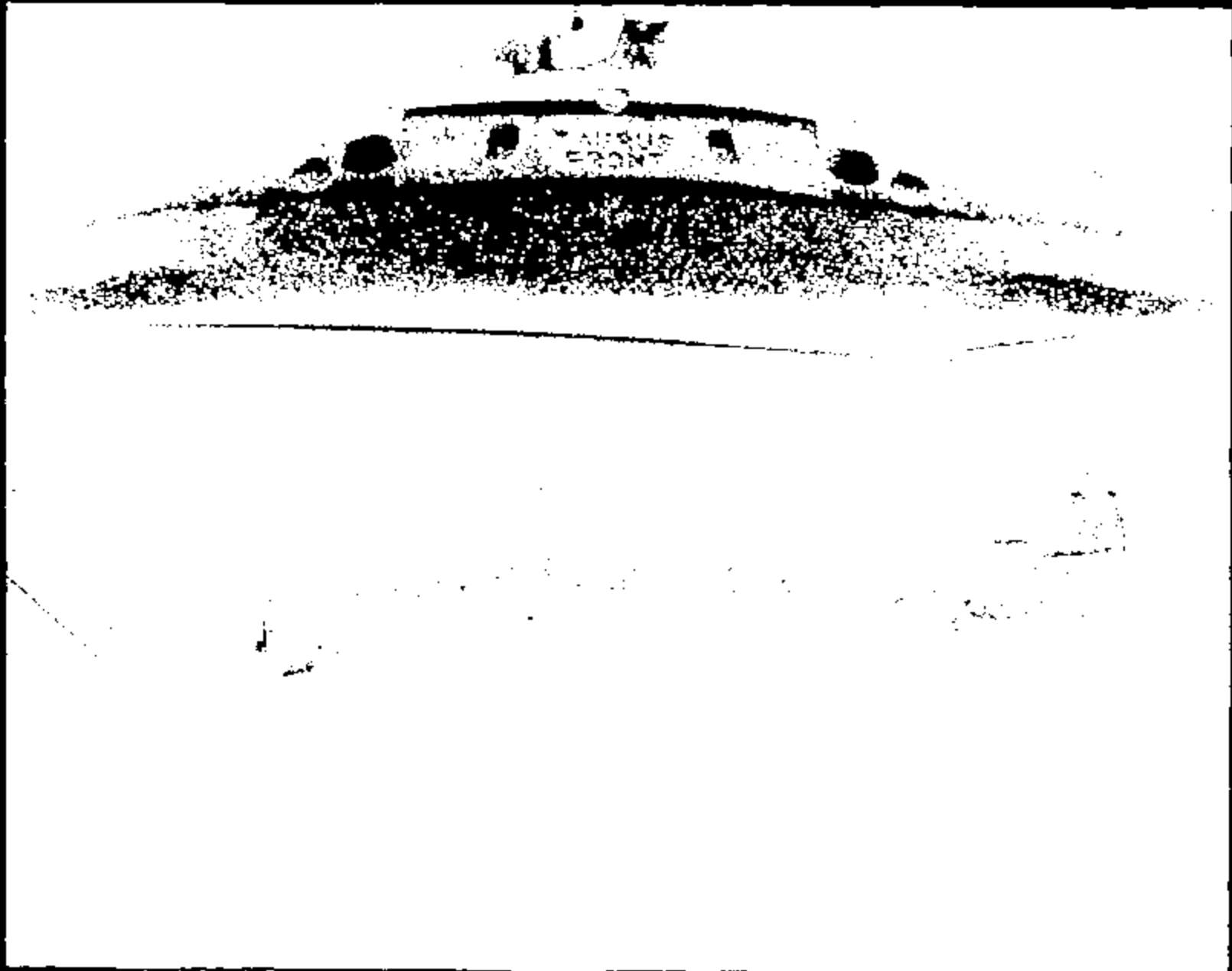
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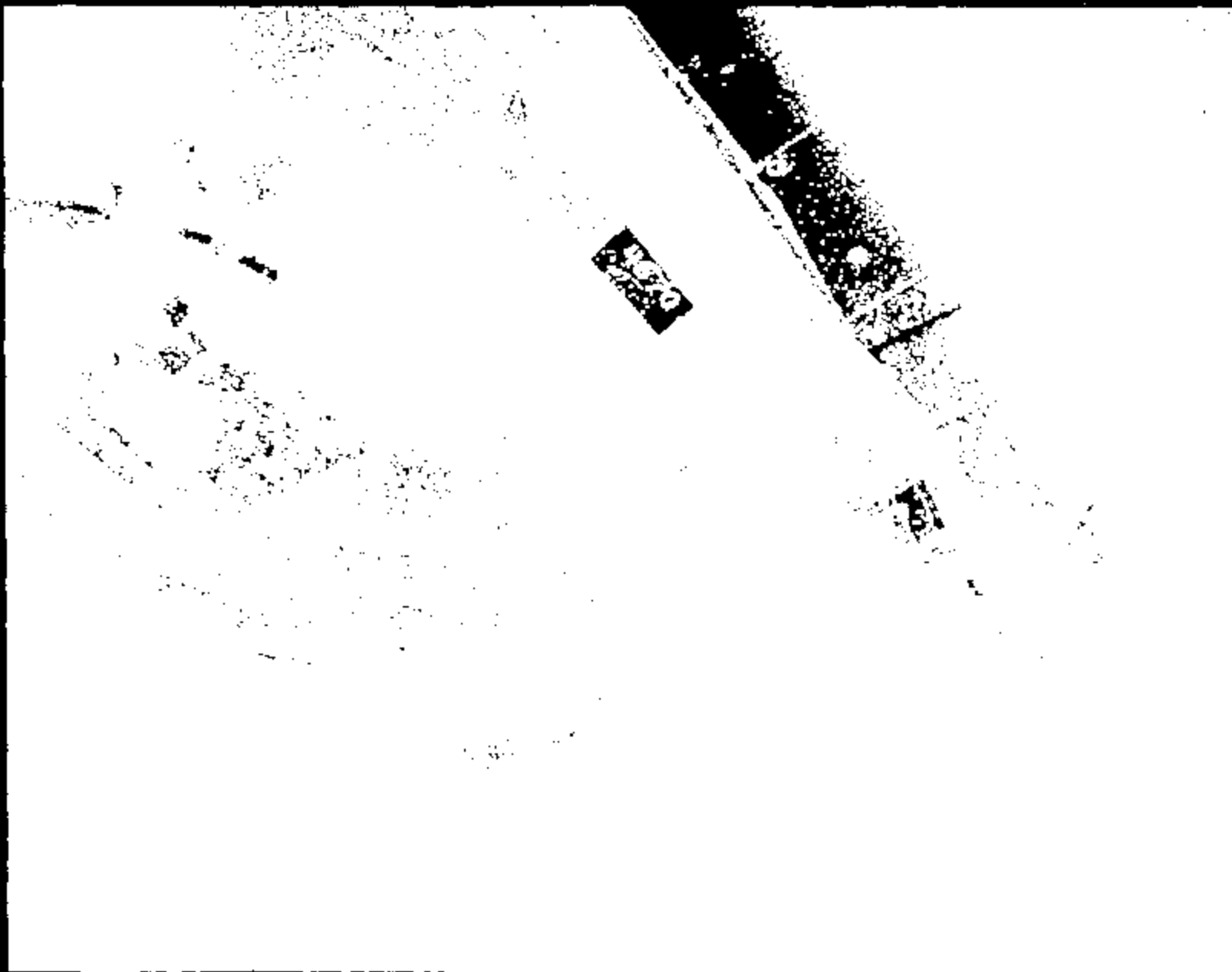
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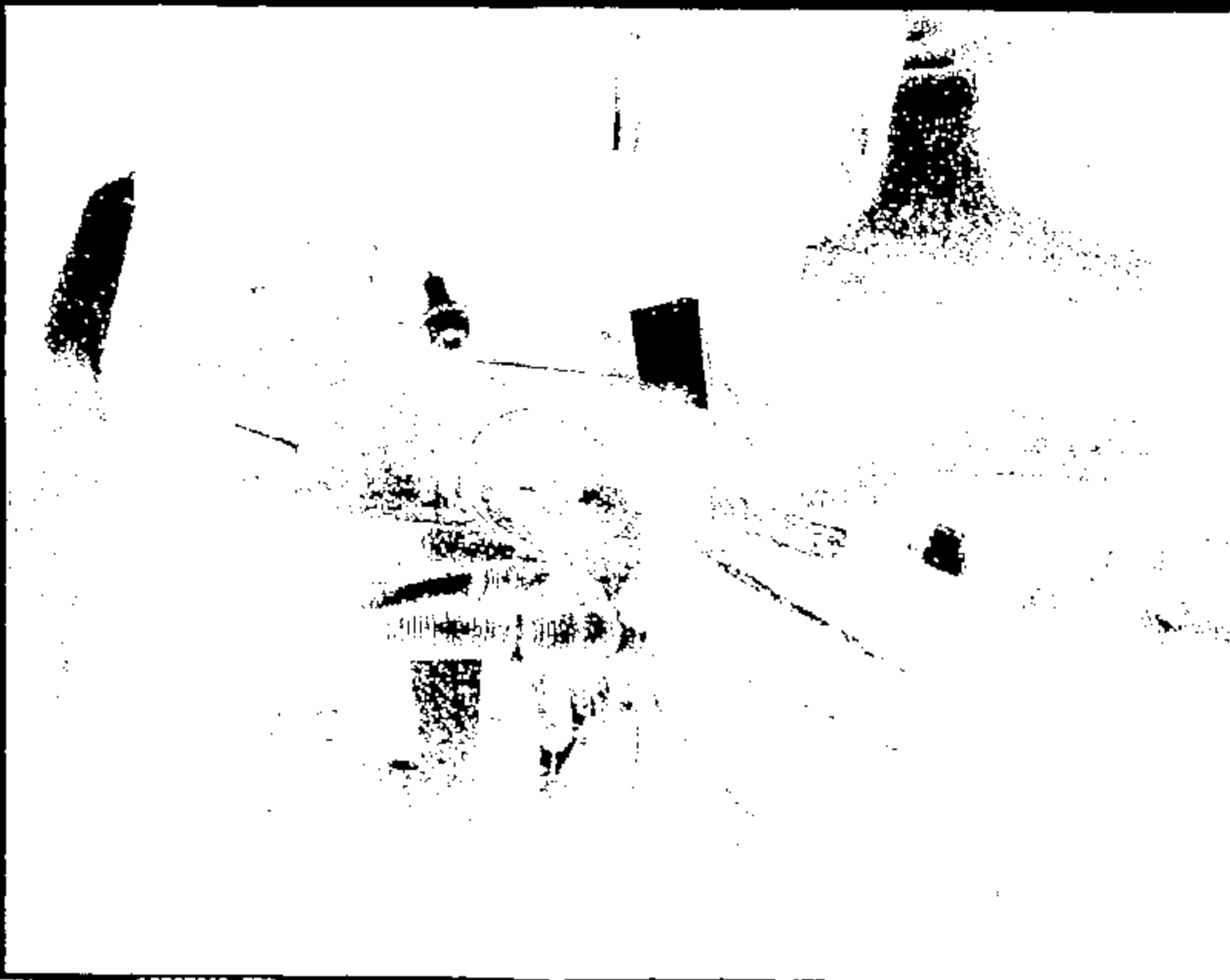
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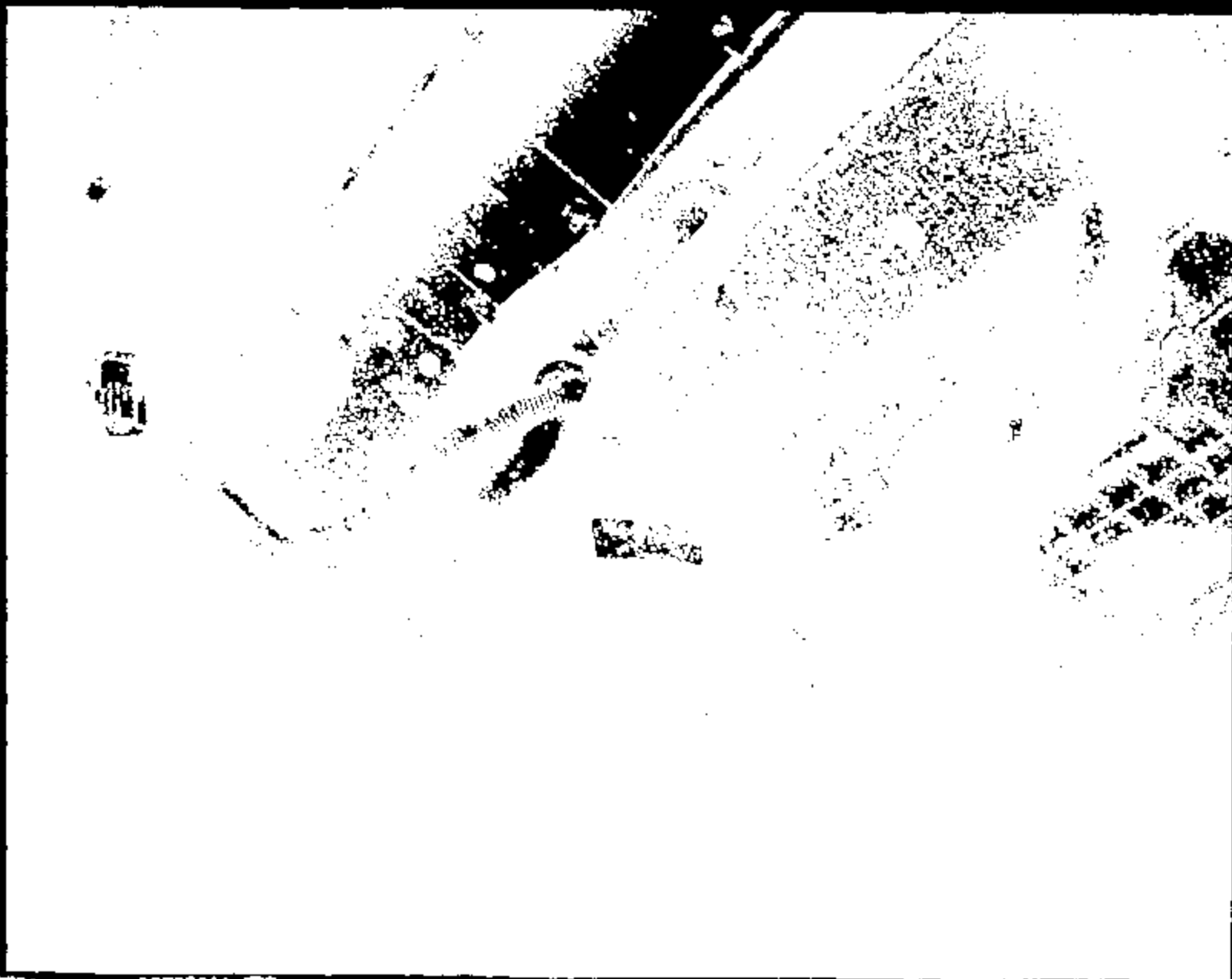
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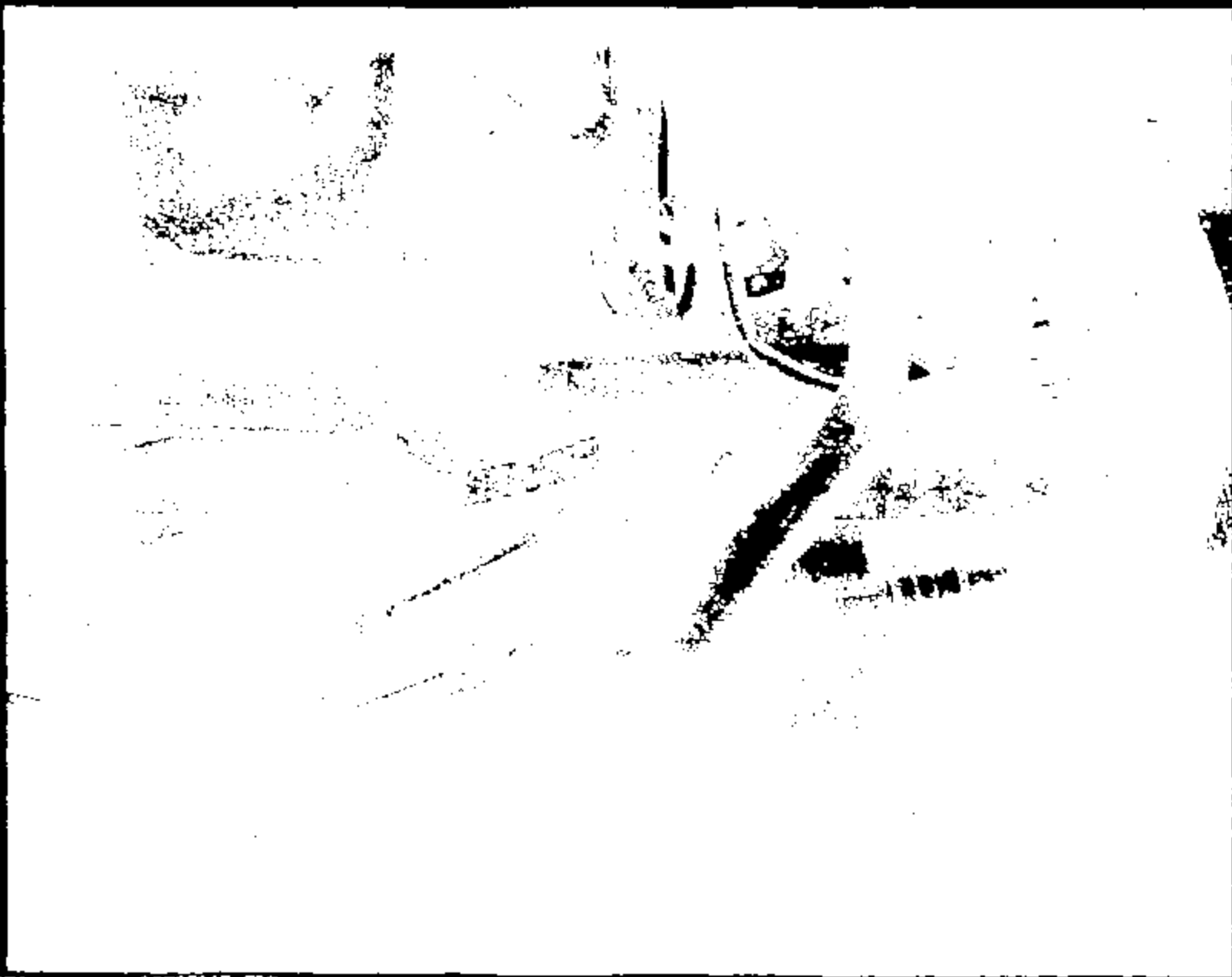
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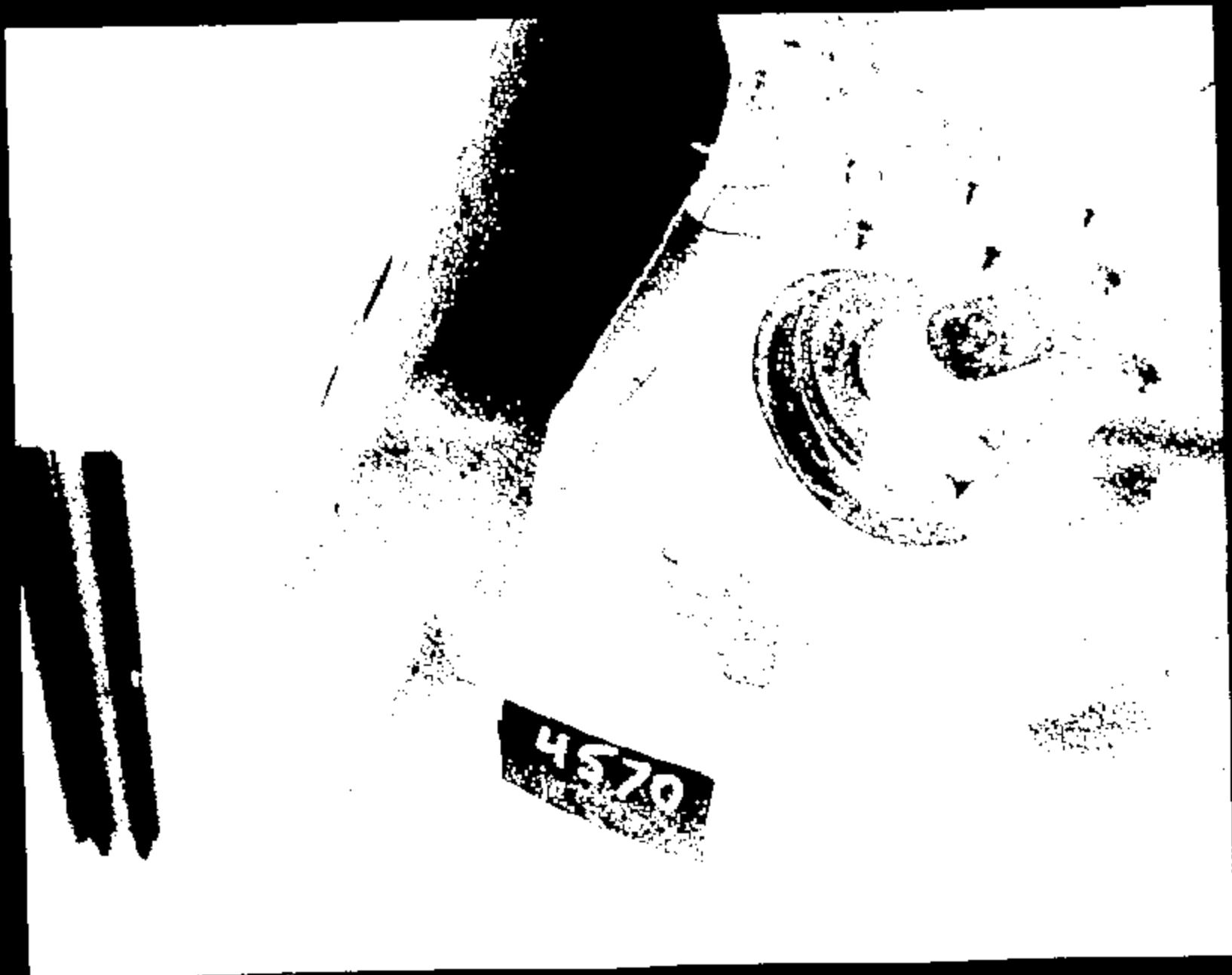


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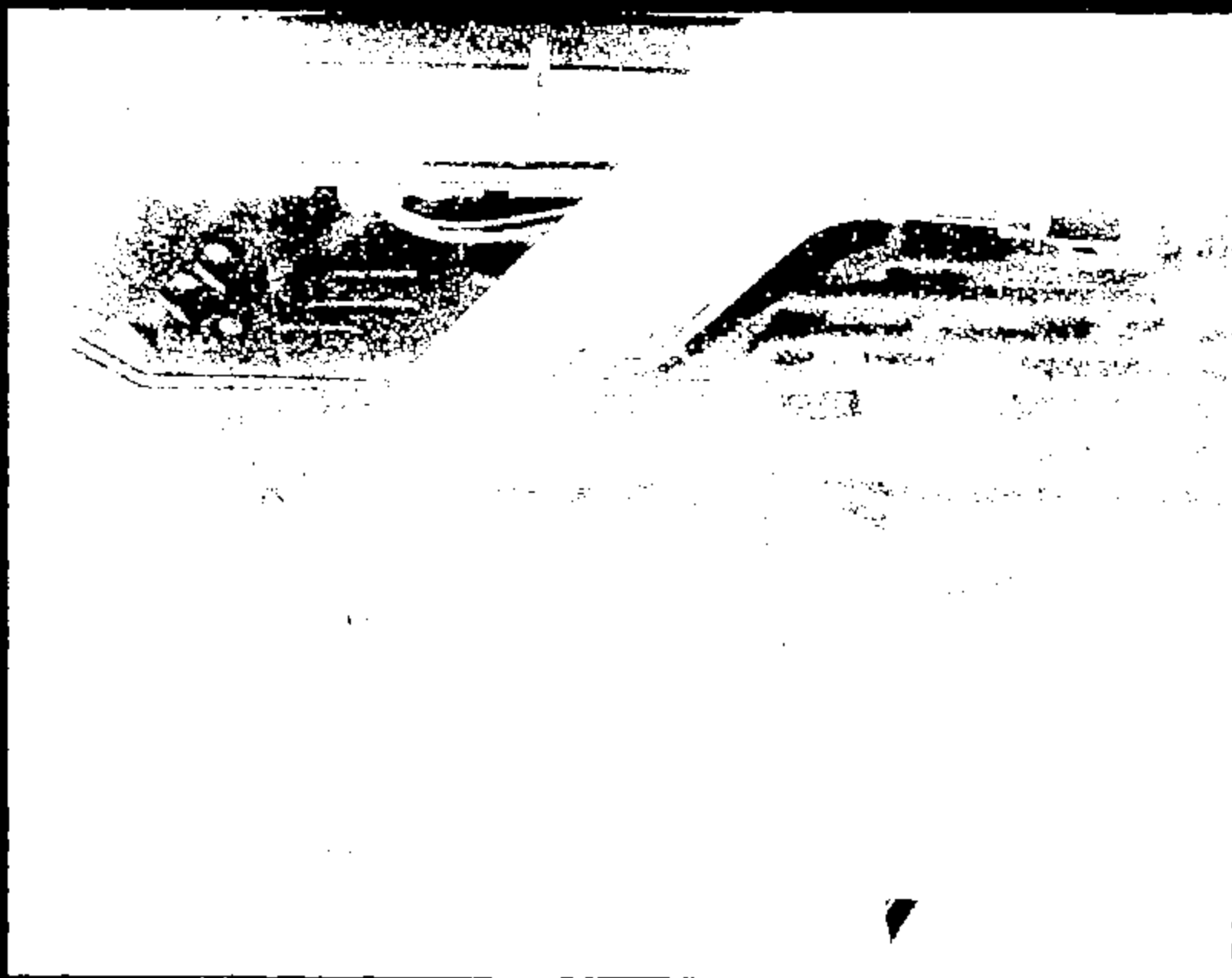


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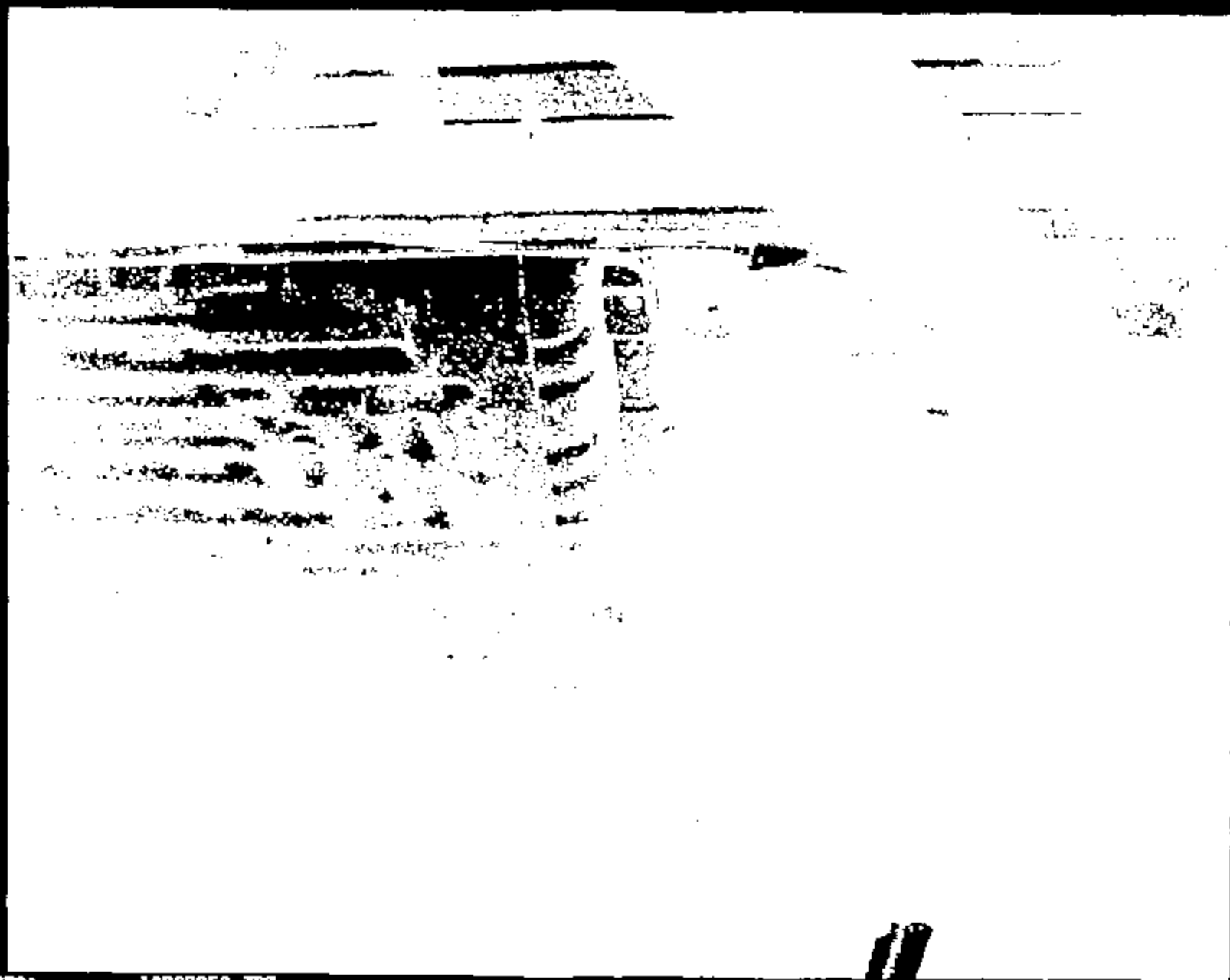
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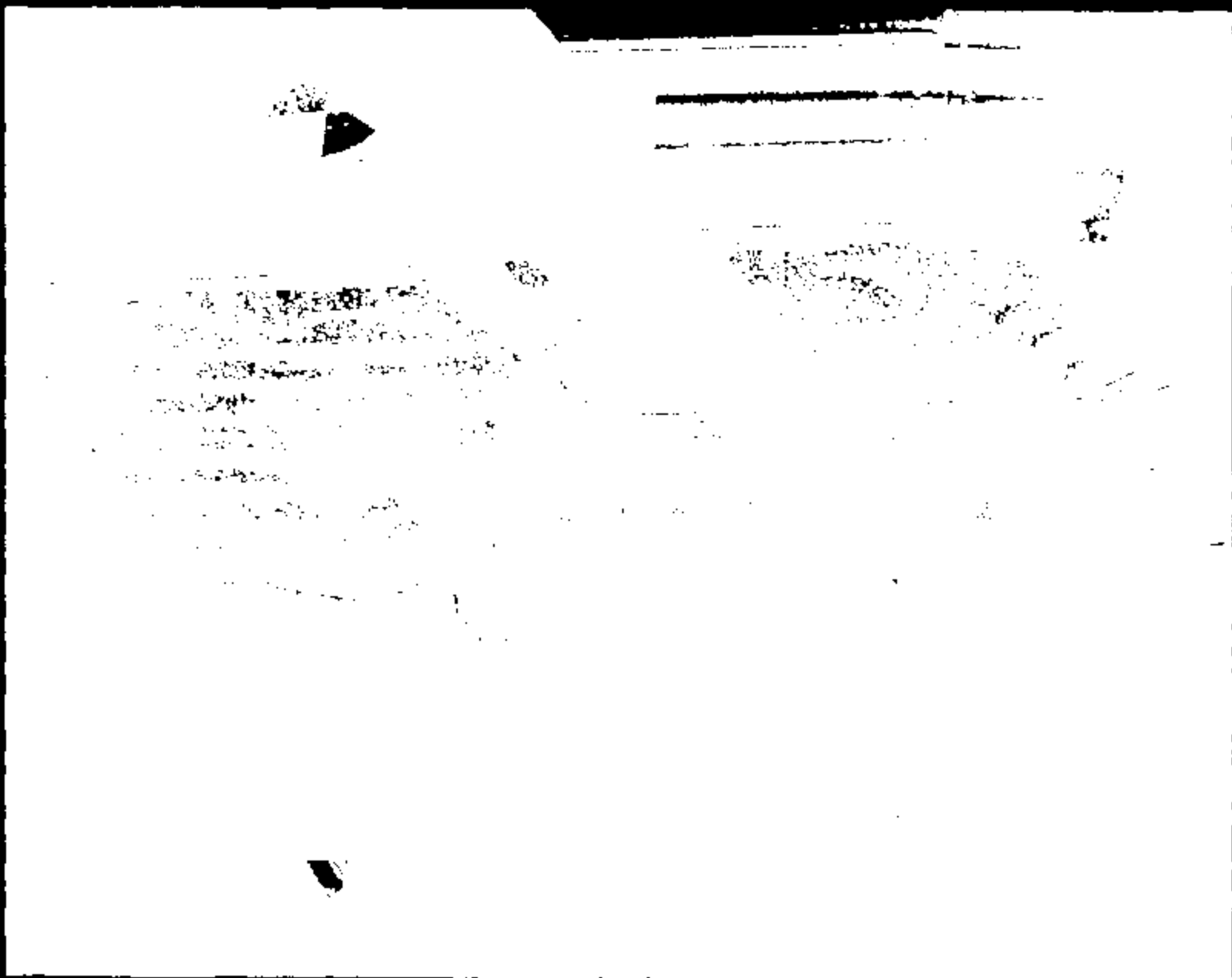
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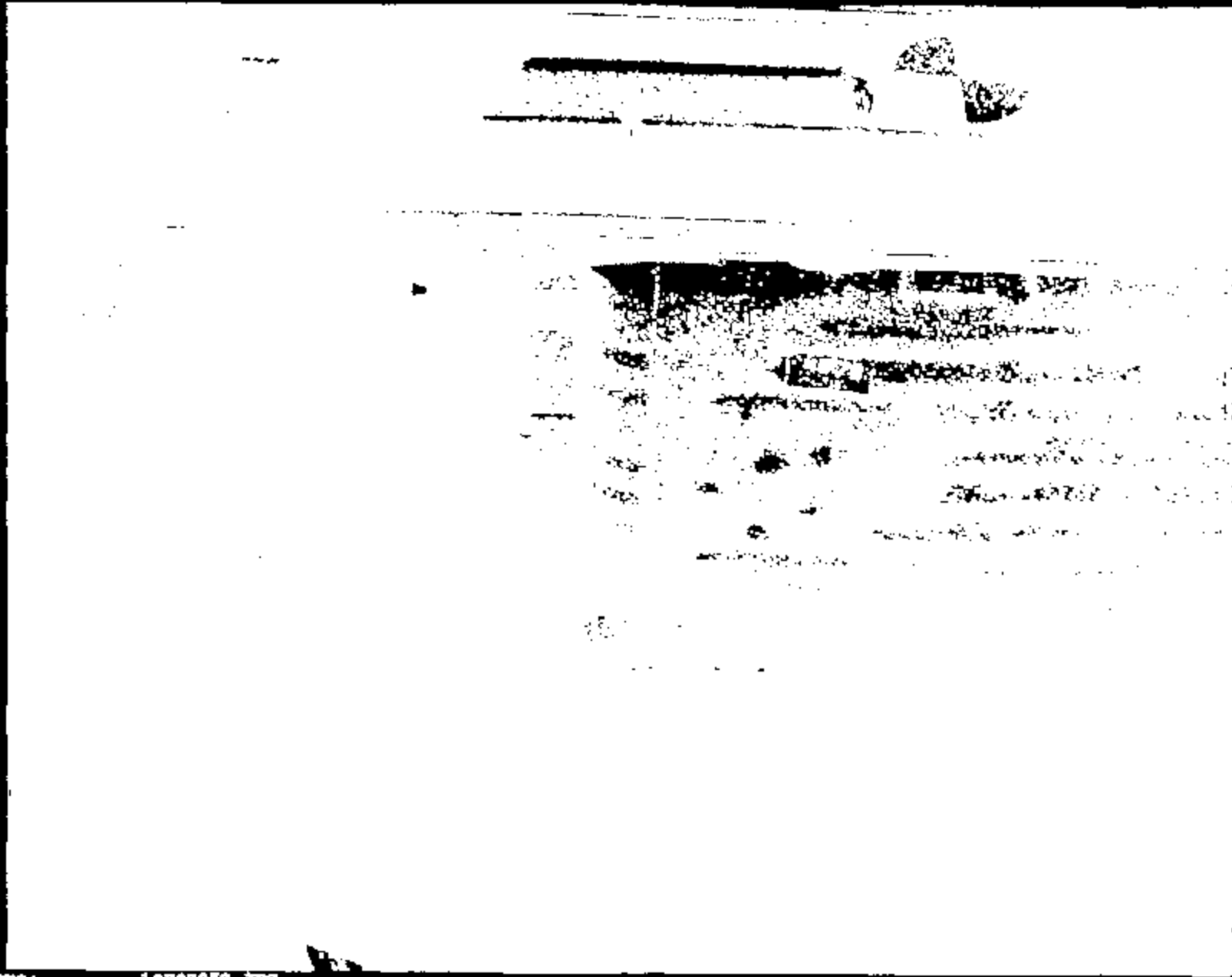
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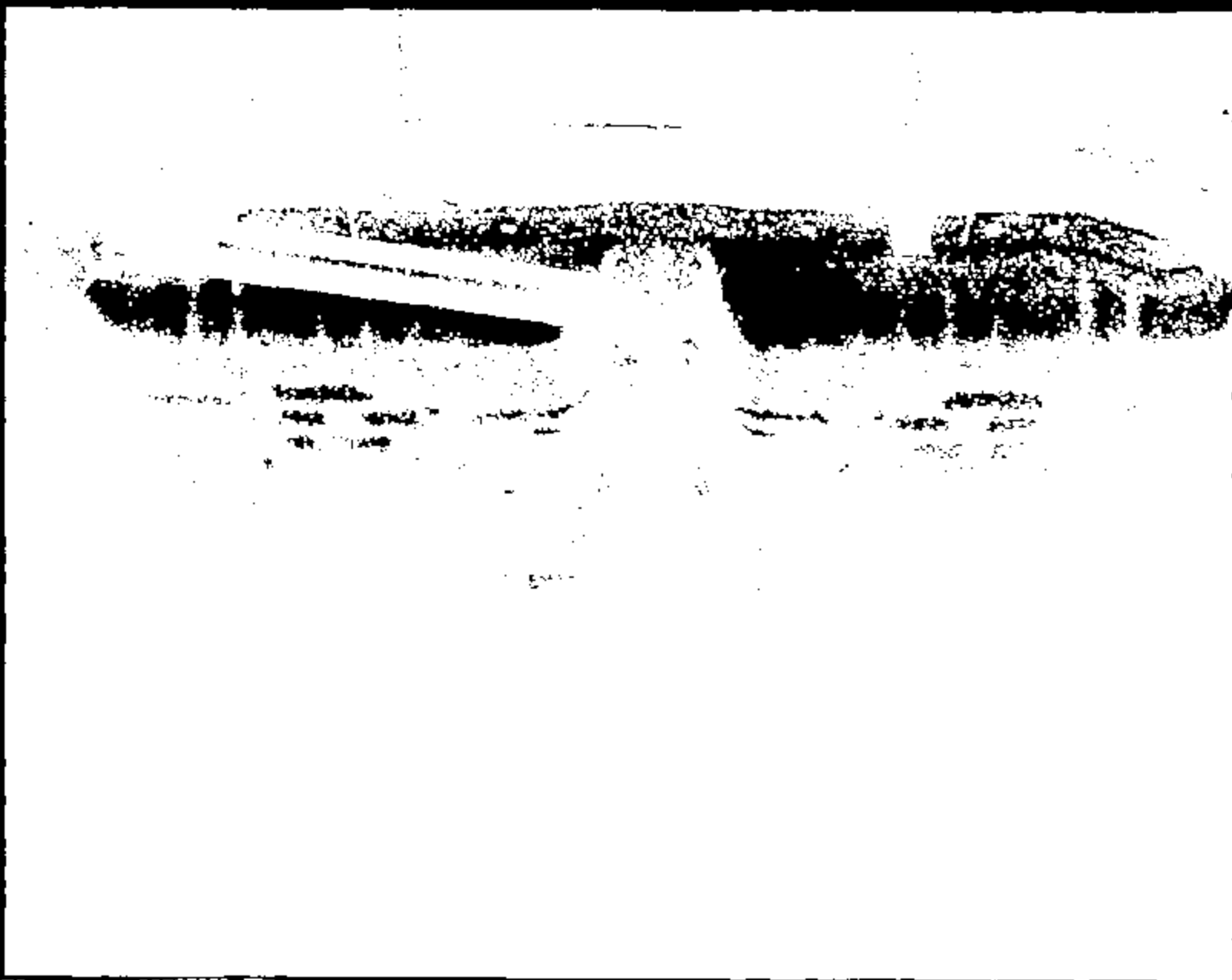
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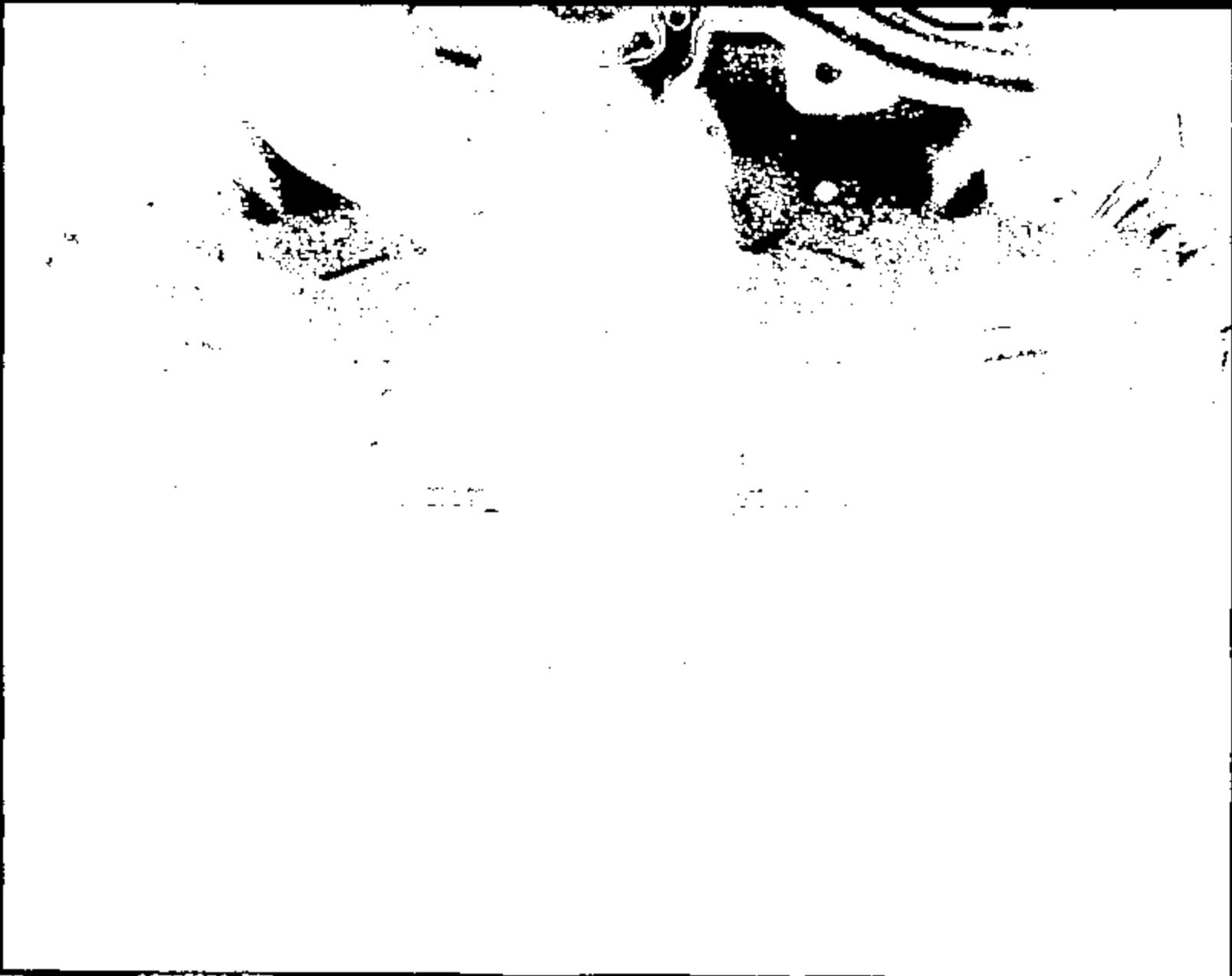
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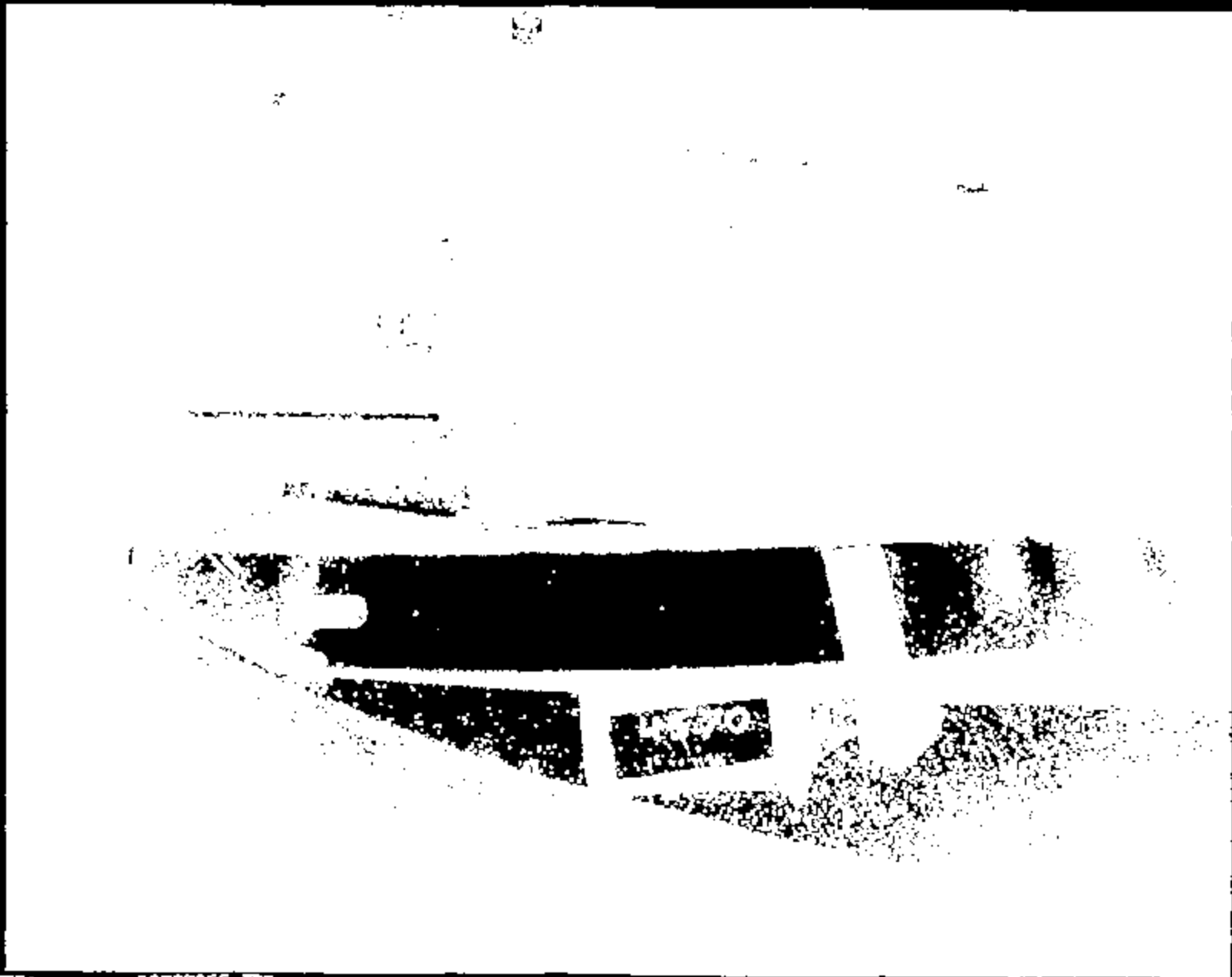
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Name :

10797056 .JPG

CRIS 0010797

# TEST AUTHORIZATION

TEST ORDER NUMBER TA6570

TO: J. Killeadonik		CC: D. FOUSSIADES M. HAMILTON E. KUCZAK E. J. Radler S. J. Schlichter J. WATKINS C. WOODS d. a. Kirby d. J. Lortie M. E. VITACIK		REQUEST DATE	REQUESTED COMPLETION DATE 08-08-97
				REQUEST NUMBER TA6570	PROGRAM NUMBER N/A
				REQUESTING SECTION AVG215A	
TITLE OF TEST Taurus 9.3 mph Offset Frontal Impact				PARTS DUE DATE 07-31-97	
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 318T991		VEHICLE MODEL & YEAR TAURUS 93	
ENGINE NO. DISPL. CMB 3.0L 4V 5		TRANSMISSION AX4M		AXLE RATIO N/A	
TYPE OF FUEL N/A		CONVERSION N/A		IGNITION TIMING N/A	
CHARGE OIL AND CAPACITY N/A		TIRE SIZE AND PLY RATING N/A		REPORT EXTENSION <input checked="" type="checkbox"/> ENGINEERING <input checked="" type="checkbox"/> DATA <input checked="" type="checkbox"/> RAW DATA	
VEHICLE TEST WEIGHT FRONT 2200 REAR 1560 TOTAL 3854		TIRE PRESSURE FRONT 30 REAR 30		DISPOSITION OF PARTS Soyard	
				PROCUREMENT REQUIREMENT <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO CODE	
				MAIL REPORT TO: ROOM 8P1232 BLDG 2	

1. OBJECT OF TEST: Advanced Restraint Sensor Development
2. TEST PROCEDURE: CR-00
3. NUMBER OF SAMPLES: 1
4. RUNS PER SAMPLE: 0
5. ITEMS TO BE TESTED:

DESCRIPTION	PART NO	QUANTITY
Taurus Sensor Development Prototype	1PAL53MTA100152	( 01 )

**RECORD COPY**  
 FILE NO. 2-2-12  
 DATE 2012

REQUESTING DEPT NO	WORK ORDER/WORK TASK	ISSUED/REQUIRED BY	PHONE	APPROVALS	TEST TYPE	RISK	SIGN-OFF DATE
7551	XRT3P	BJNR	85185	RELAND			

REQUESTER DO NOT WRITE BELOW THIS LINE

WORK STANDARD NUMBER				TITLE Taurus 9.3 mph Offset Frontal Impact			
MANDATORY				OPTIONAL			
TEST ORDER #	CATEGORY	REP SECT	EST COMP DATE	REQ	TEST ENG'NS INIT	UNIT CODE	TEST ORDER DATE
TA6570	4	T657		X		CRASH	
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	\$	\$				

TEST DEFINITION WORKSHEET

KURT L. EWING

29-JUL-97 13:32

TEST ORDER: TA4570

TEST PROCEDURE: C98-00

REQUESTER COMMENTS:

TEST OBJECTIVE: Advanced Restraint Sensor Development

CUSTOM TEST SETUP: "Thatchum" Frontal Offset Rigid Barrier Impact:  
Align vehicle to barrier face such that the edge marker  
test vehicle is in line with ~~right~~ <sup>RIGHT</sup> edge of rigid offset barrier  
Impact test vehicle @ 18kph (9.3 mph).

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

*KEVIN W/PT*



OCCUPANT TYPE: Left Front: Water Bottle  
Rgt. Front: Water Bottle

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

DUMMY POSITIONING: None DRIVER FOOT REST: N/A

SENSOR SYSTEM: Monitor sensor module outputs. See Sensor Map.

SEAT POSITION:	Long.	Vert.	Seat Back Angle
Left Front:	Mid	Full Down	Full Upright
Rgt. Front:	Mid	Full Down	Full Upright

SEAT PACKAGE CHECK REQUIRED ? NO

DIMENSIONAL ANALYSIS: Accel Locations (Pre-test only)  
Sensor Attachment Points (Pre-test only)

TEST DEFINITION WORKSHEET

KURT L. EWING

28-JUL-97 13:32

TEST ORDER: TR4870

TEST PROCEDURE: CRS-00

FILM ANALYSIS:

None

STILL PHOTO:

Std. Pre & Post Test Photographs.

Close ups of instrumentation on vehicle front and interior.

HIGH SPEED PHOTO:

Onboard:

None

Offboard:

Overall Views:  
B-Pillar Forward:  
A-Pillar Forward:

Left, Right, Overhead  
Left, Right  
Pit, Overhead

Number Of Copies: 1

WEIGH UP INSTRUCTIONS:

Curb Weight: Front=2131 Rear=1163 Total Curb=3294  
Test Weight: See Test Authorization Page 1.

Do NOT Place Weight: Front Floor  
MAY Remove To Lighten Vehicle: Deck Ldd, Rear Legs, Carpet  
Rear Seat, 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:

Disable Air Bags  
Fabricate Sensor Bracket Hardware as per requestor's instructions.  
Remove All Door Trim Panels and Side Glass

TEST DEFINITION WORKSHEET

KURT L. SWING

29-JUL-97 13:32

TEST ORDER: TR457D

TEST PROCEDURE: CRS-00

CONTACTS:	NAME	PHONE	PAGER
Requestor:	K. Swing	24-86185	KSWI (313-660-6991)
	E. Kacnits	24-81602	EKEM
	D. Bauch	32-23884	DBAU
Eld. Coord:	M. Dandel	24-85498	MDEN (313-705-8101)
Supervisor:	M. Jurosek	32-39958	MJUR (313-705-9990)
GTO:	S. Pingleton	39-03809	SPIN (313-780-3922)

TEST ENGINEERS COMMENTS:

LAB COMMENTS:

FINAL COMMENTS:

REQUESTERS FINAL COMMENTS:

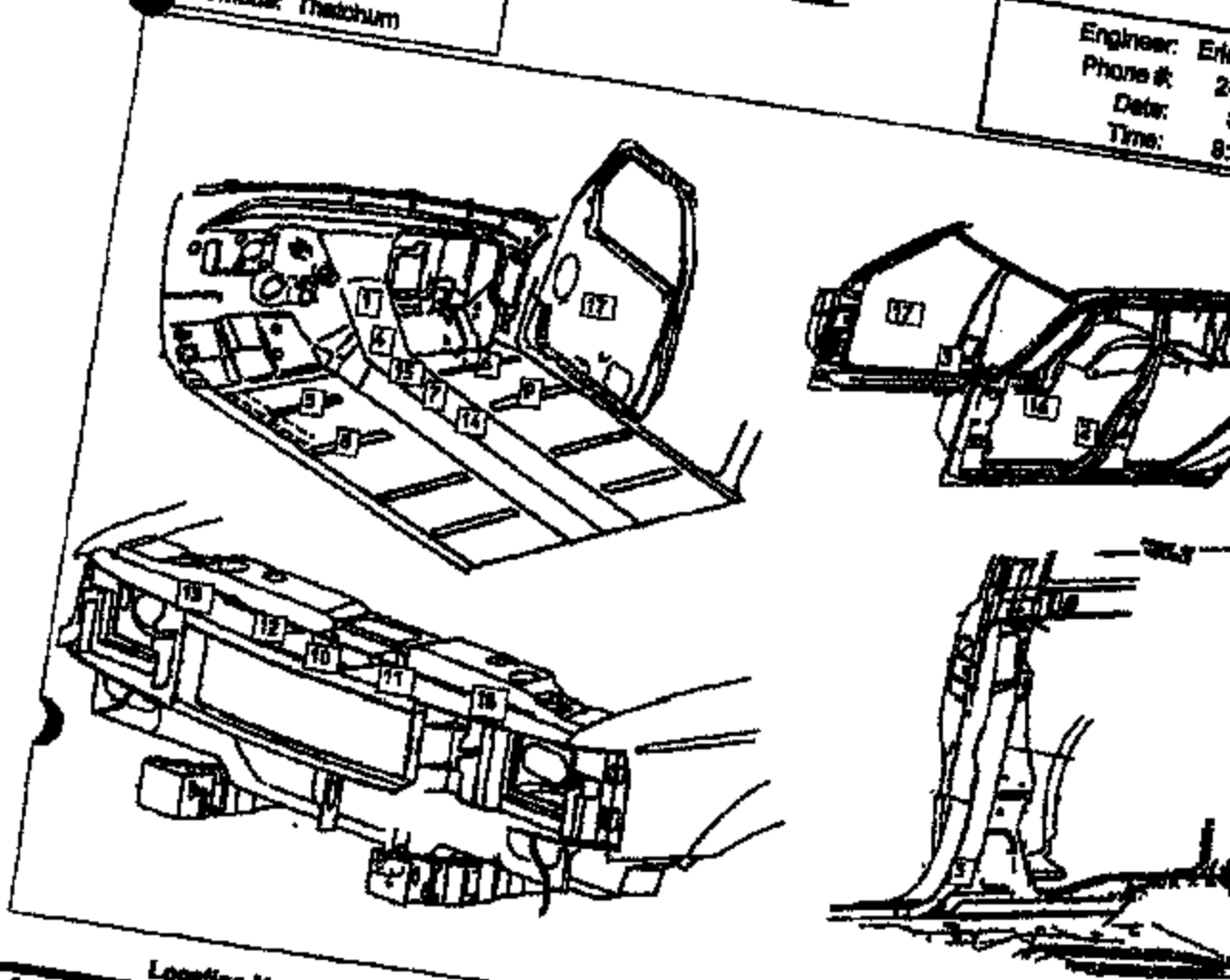
Billable Department: T852  
 Billable Requestor: T. Hrynik

VECAR is requesting this test on behalf of Department T852.

Program: Crash Severity  
 Vehicle ID: 3187591  
 Build level: VH  
 Test Mode: Thatcham

# SENSOR MAP

Engineer: Erich  
 Phone #: 2  
 Date:  
 Time: 8:



Location Name	ACD	Supplier	Output	Nominal (+/-)	SENSOR CHARACTERISTICS	Max/min	Se
✓ 1 FRT_FLOOR_PAI_R_C/L (LHD RCH Location)			Pass Bag Squib #2	0		5-7	840
			Pass Bag Squib #1	0		5-7	840
			Dr Bag Squib #2	0		5-7	840
			Dr Bag Squib #1	0		5-7	840
			Ground	0			
			Status	0			
✓ 1 FRT_FLOOR_PAI_R_C/L			TRIAx	0			84001
✓ 2 L/S-PLR_LOWER_INNER	_ECB	accel	TRIAx	0			
✓ 3 L/S-PLR_INNER_LOWER	_RH	accel	TRIAx	0			
FRT_FLOOR_PAI_R_C/L (RHD RCH Location)	_RH	accel	TRIAx	0			
	Below	RCH	TRIAx	0			
			Power	12			
			WB	0		0-2A	
			UB	0		0-2A	
			UB2	0		0-2A	
			UB2	0		0-2A	

Erich Kamnitz x81602  
 AVT Restraints

Location Name		Supplier	Output	Sensor Channels only		
			Nominal (+/-)	Max/Min	Serial #	
6	FRT_FLOOR_PAN_R_C/L	_RCH accel	TRIAK	On Delco ECM		
	FLR_XDRR_R_L/F_BEAT_C/L	_RH accel	TRIAK	Rear face of Left front seat cross member		
	FLR_XDRR_R_R/F_BEAT_C/L	_RH accel	TRIAK	Rear face of Right front seat cross member		
✓7	C/L_TNL_BETWEEN_F/SEATS	_RH accel	TRIAK	Next to Braid ECM		
✓7	C/L_TNL_BETWEEN_F/SEATS	Braid ECM	volts			FD0FR1691C5
			Power	12		
			TRIGGER			
			Thresh 1	5	0-5	
			Thresh 2	5	0-5	
✓8	RL_FLR_XDRR_R_L/F_BEAT_C/L	_RH accel	TRIAK	Front of left front seat rear cross member		
✓9	RR_FLR_XDRR_R_R/F_BEAT_C/L	_RH accel	TRIAK	Front of right front seat rear cross member		
✓10	C/RAD UP FRT	_ACD ACD CBS	volts	Crash Severity Sensor C/L, forward of hood latch bracket on mounting plate		
✓10	C/RAD UP FRT	_RH accel	TRIAK	C/L, forward of hood latch bracket, next to CBA sensor on mounting plate		
✓11	L/C/RAD UP FRT	_RH accel	TRIAK	Left side of C/L CBA sensor, Location# 10. Underside of ODR		
✓12	R/C/RAD UP FRT	_RH accel	TRIAK	Right side of C/L CBA sensor, Location# 10. Underside of ODR		
⑬	R/RAD UP FRT	DEL Delco CBS	volts	Crash Severity Sensor Delco On top side of ODR		
✓13	R/RAD UP FRT	_RH accel	TRIAK	Near CBA Sensor		
✓14	C/L_TNL_RR	Boach ECM	volts			KCR1946
✓14	C/L_TNL_RR	_RH accel	TRIAK	Rear Boach ECM		
✓15	C/L_TNL_FWD_OF_F/SEATS	_RH accel	TRIAK	Rear Takata ECM on sheet metal		
✓15	C/L_TNL_FWD_OF_F/SEATS	Takata ECM	volts			A1
			Power	12	9-13	
			Unbelted	1.20	0-5	
			Belted	1.20	0-5	
16	L/F_DOOR_R_BELTLINE_MID	_RH accel	TRIAK			
17	R/F_DOOR_R_BELTLINE_MID	_RH accel	TRIAK			
⑭	R/RAD UP FRT	DEL Delco CBS	volts	Crash Severity Sensor Delco On top side of ODR		
✓18	L/RAD UP FRT	_RH accel	TRIAK	Rear CBA Sensor		





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 Schedule No. 7-7-12  
 CONFIDENTIAL 2018

**FINAL TEST REPORT**

**Global Test Operations  
 Advanced Vehicle Technology**

<b>TO:</b>	<b>J. Boland</b>	<b>Test Order No.</b>	<b>T-A5016</b>
		<b>Work Task W. O. No.</b>	<b>F09</b>
		<b>Test Date</b>	<b>11/17/97</b>
		<b>Date Reported</b>	<b>2/20/98</b>
		<b>Sheet</b>	<b>1 of 160</b>

**SUBJECT:** Crash Test 10921 (90° Front 40% Offset Left Side Barrier with a Deformable Barrier Face Impact at 40.0 ± 0.4 mph, 64.4 ± 0.6 km/h) - 2000 Taurus (D186) 4-Door Sedan

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

**OBJECT:** To obtain development data relative to FMVSS 208 and ECE Directive 96/79/EC.

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

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

  
**S. Fingleton**  
 Test Development Engineer

**VEHICLE DATA:**

**Make and Model** 2000 Taurus (D186) 4-Door Sedan

**ID Numbers** 1FALP52U9WQ201650, 313-T-306, DCO418

**Power Train** 3.0L, EFI, Automatic (AX4W) Transaxle

**Fuel Tank(s)** Usable Capacity: 16.0 gal. (60.6L)  
Test Condition: The "run dry" tank was filled with red-dyed Stoddard solvent to 95% of its rated usable capacity.

**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: 26.7° Rear of Vertical  
Head Restraints/Position: Adjustable/Up

**Restraint System** LF: 3-Point Continuous Loop Active Belt and Steering Wheel Air Bag  
RF: 3-Point Continuous Loop Active Belt

**Occupants** LF: 50th Percentile Male, Hybrid III, Instrumented  
RF: Water-Filled Container (Simulating 50th Percentile Male, Hybrid II, Uninstrumented Dummy)

**Test Weight** Front: 2299 lb (1043 kg)  
Rear: 1574 lb (714 kg)  
Total: 3873 lb (1757 kg)

**Tires** Front: P205/65R15 30 psi (207 kPa)  
Rear: P205/65R15 30 psi (207 kPa)  
Spars: Removed

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

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

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

- Fixed Barrier Collision, T657-ST-14 dated July 17, 1996.
- CFI and EFI Fuel Systems Stoddard Solvent Fill, ST-11 REV. 4.
- Occupant Crash Protection, T657-ST-25 dated July 17, 1996.

**1.1 Vehicle Alignment**

A fixture attached to the normal fixed barrier face and aligned to contact 40% of the front of the test vehicle from its longitudinal centerline to the left (driver) side. A deformable barrier face was mounted to it so that the deformable bumper's lower edge was 200 mm above and parallel to the ground.

**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 10921001 through 10921080.

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

	<u>L. E. Dummy</u>
Head Injury Criteria (HIC)	203
Interval t1	89 ms
t2	125 ms
Chest resultant acceleration level at 3 ms cumulative duration	48 g
Chest Deflection (Hybrid III)	1.0 in
Peak axial compression load:	
Left femur	2739 lb
Right femur	1141 lb
Peak axial tension load:	
Left femur	76 lb
Right femur	112 lb
Dummy contained within the vehicle during the crash	Yes

Air bag was fired remotely at 24 ms.

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

Time histories of the dummy dynamic displacements obtained from File 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, File Analysis and/or Instrumentation Data**

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

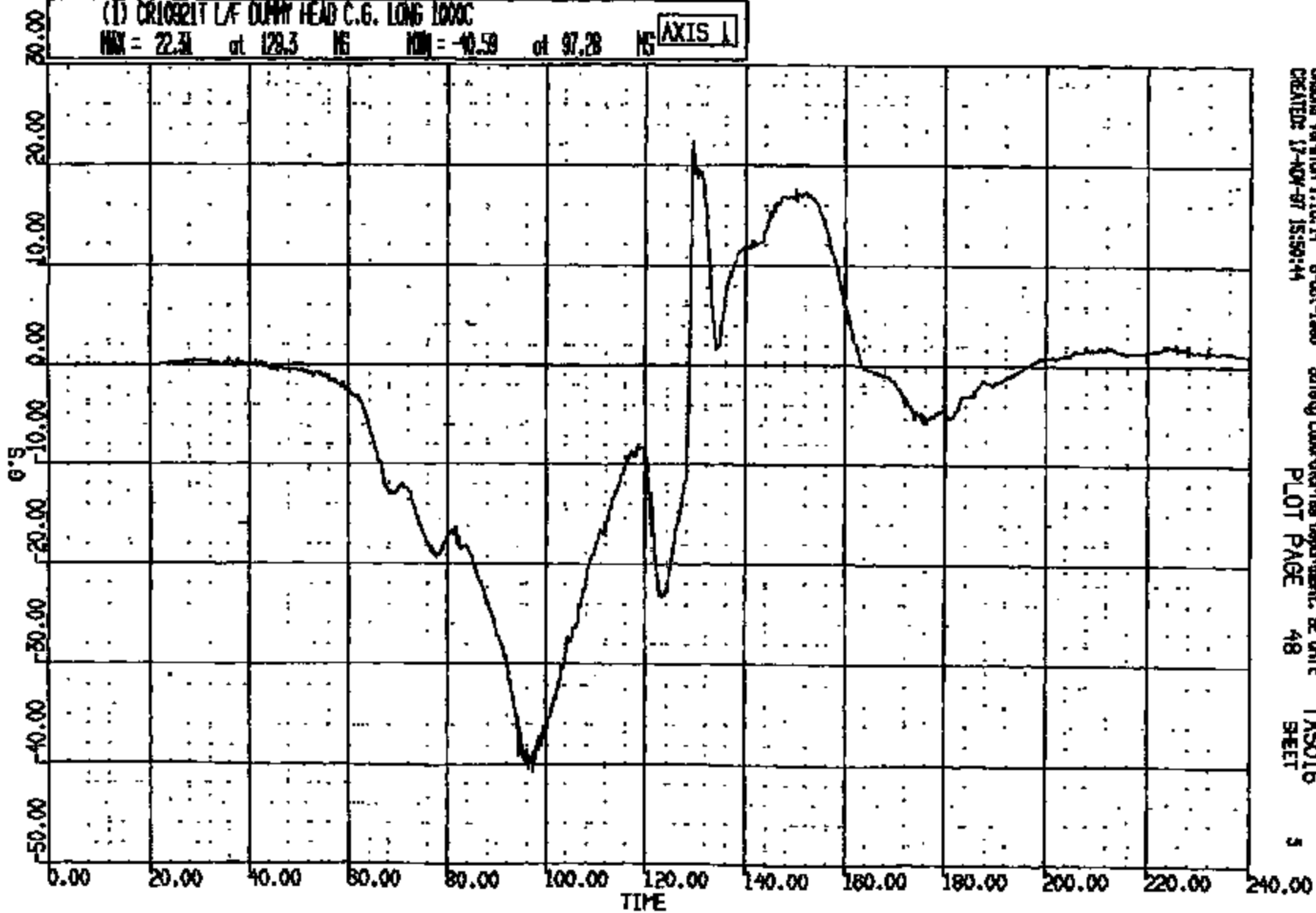
Time histories of vehicle dynamic displacements obtained from File Analysis are included in this report.

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

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

CR R1 10921 TO: TAS01B DATE: 871117 14:41:55  
0-180

(1) CR10921 L/F DUMP HEAD C.G. LONG LOGOC  
MAX = 22.31 at 129.3 MS MIN = -40.59 at 97.28 MS  AXIS 1



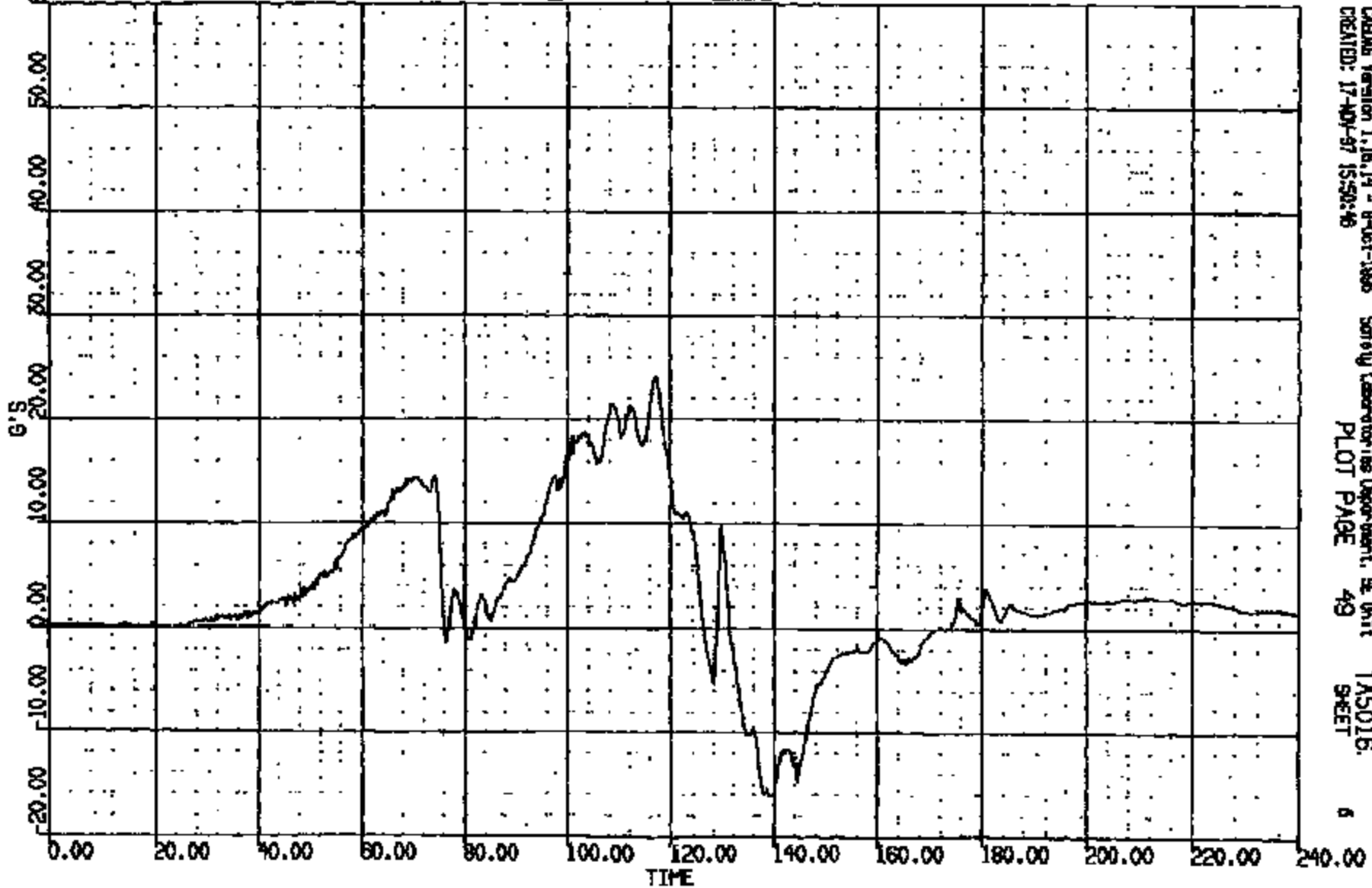
CRASH Version 1.18.14 - 8-01-1988  
CREATED: 17-NOV-87 15:59:44

Safety Laboratories Department, BE Unit  
TAS01B  
PLOT PAGE 48 SHEET

CRIS 0010921

CR R: 10921 TO: TA5016 DATE: 971117 14:41:58  
D-188

(2) CR10921 L/F DUMMY HEAD C.G. VERT 1000C  
MAX = 24.07 at 117.1 MS MIN = -16.16 at 139.0 MS **AXIS 1**



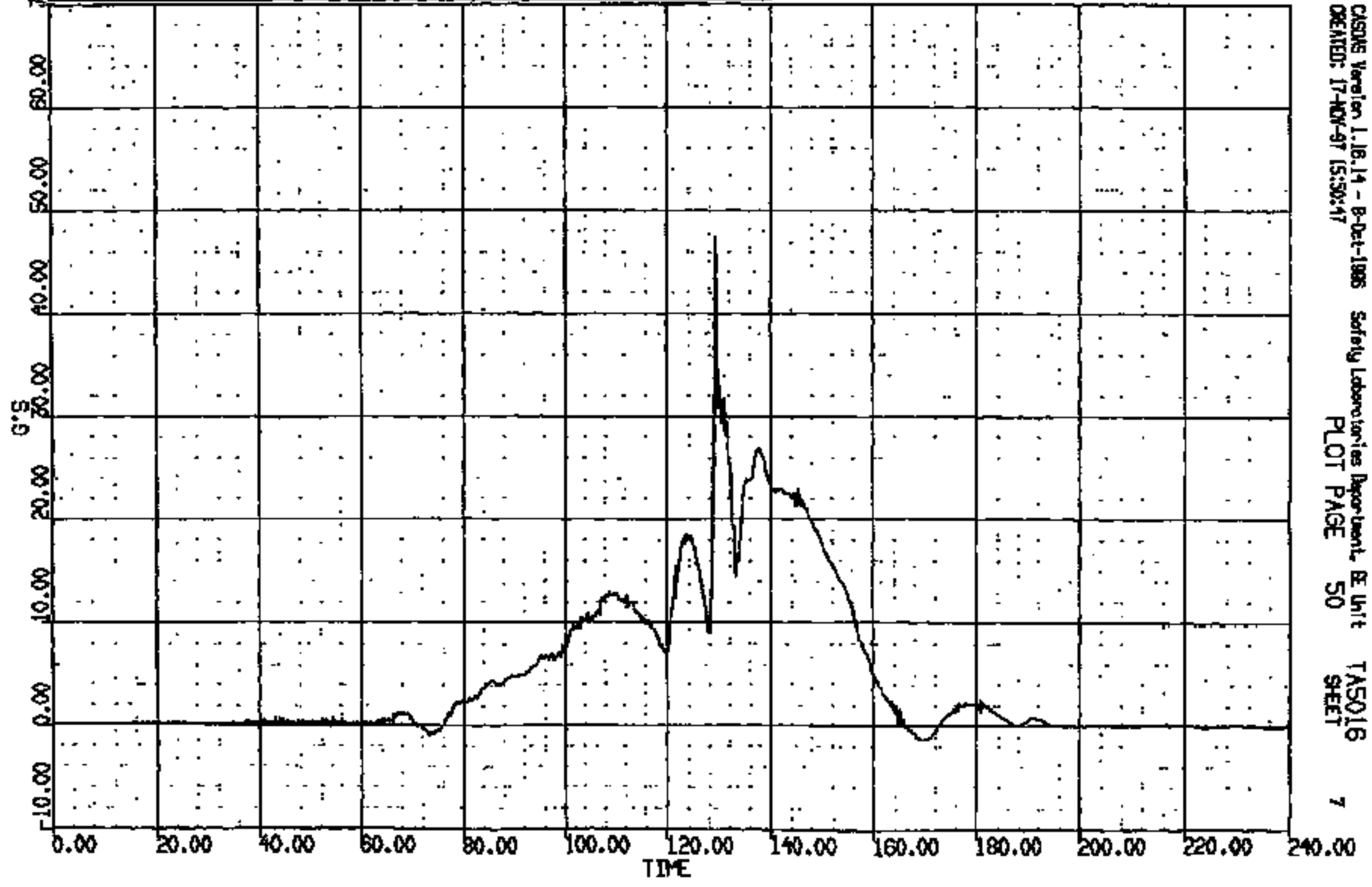
CHROME Version 1.16.14 - 8-Oct-1998 Safety Laboratories Department, EE Unit TA5016  
CREATED: 17-Nov-97 15:50:46 PLOT PAGE 49 SHEET 6

CRTS 0010921

CR R: 10921 TO: TA5016 DATE: 971117 14:41:53  
0-198

(3) CR10921T L/F DUMMY HEAD C.G. LAT 1000C  
MAX = 47.47 at 129.3 NS MIN = -1.427 at 169.2 NS

AXIS 1



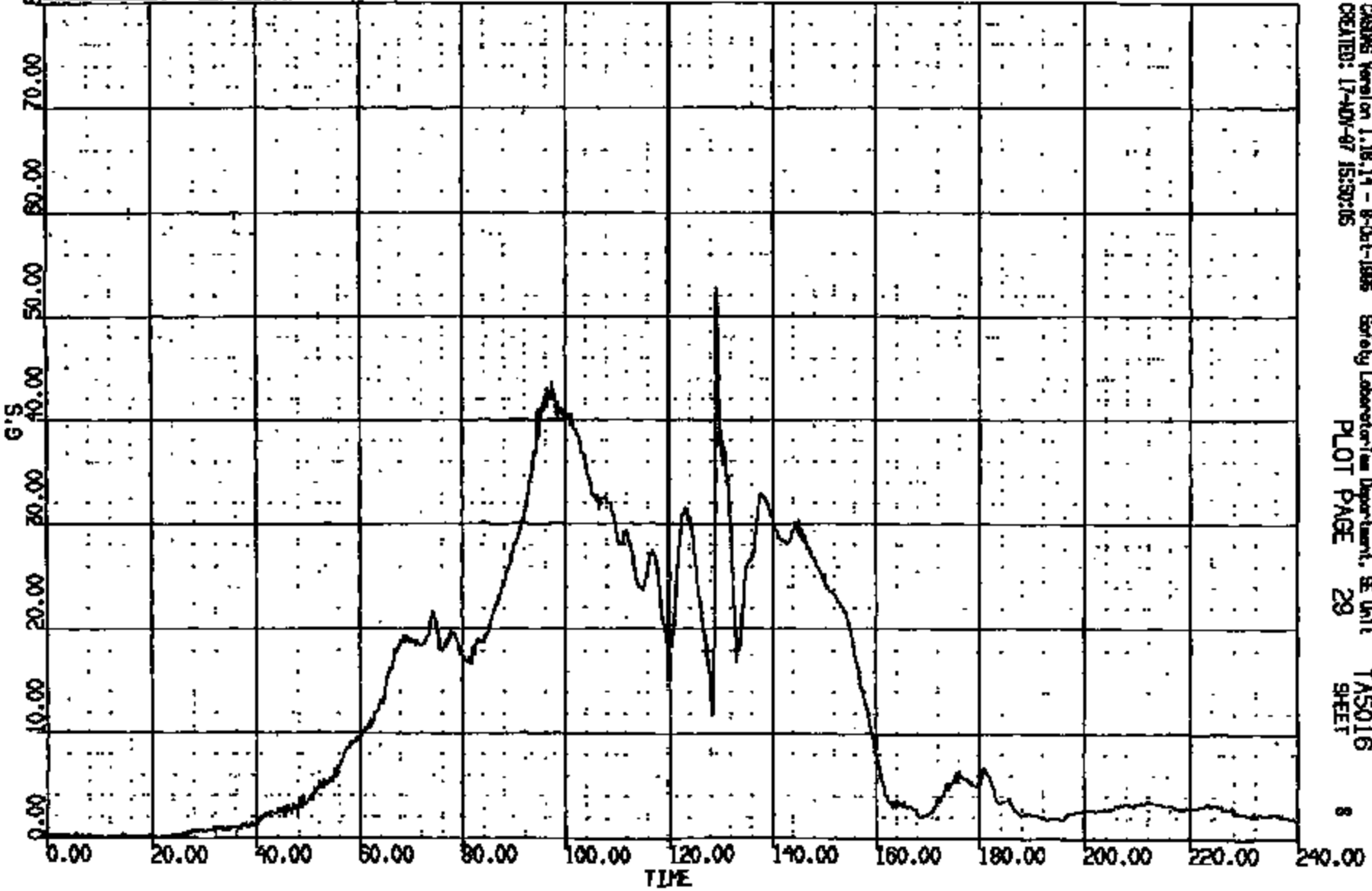
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CREATED: 17-NOV-97 15:50:47 PLOT PAGE 50 SHEET 7

CRIS 0010921

CUR R: 10921 TO: T5016 DATE: 871117 14:41:53  
 R1: 0  
 H1: 200.0 DUR: 240.0 T1/T2: 00.0 / 157.  
 H2: 200.0 DUR: 240.0 T1/T2: 00.1 / 157.  
 H3: 180.0 DUR: 15.0 T1/T2: 00.6 / 107.

(10001) CR1021T L/F CLIPPY HEAD C.G. RES 1000C  
 MAX = 52.77 at 129.3 MS MIN = 0.7985E-01 at 16.48 MS

AXIS 1

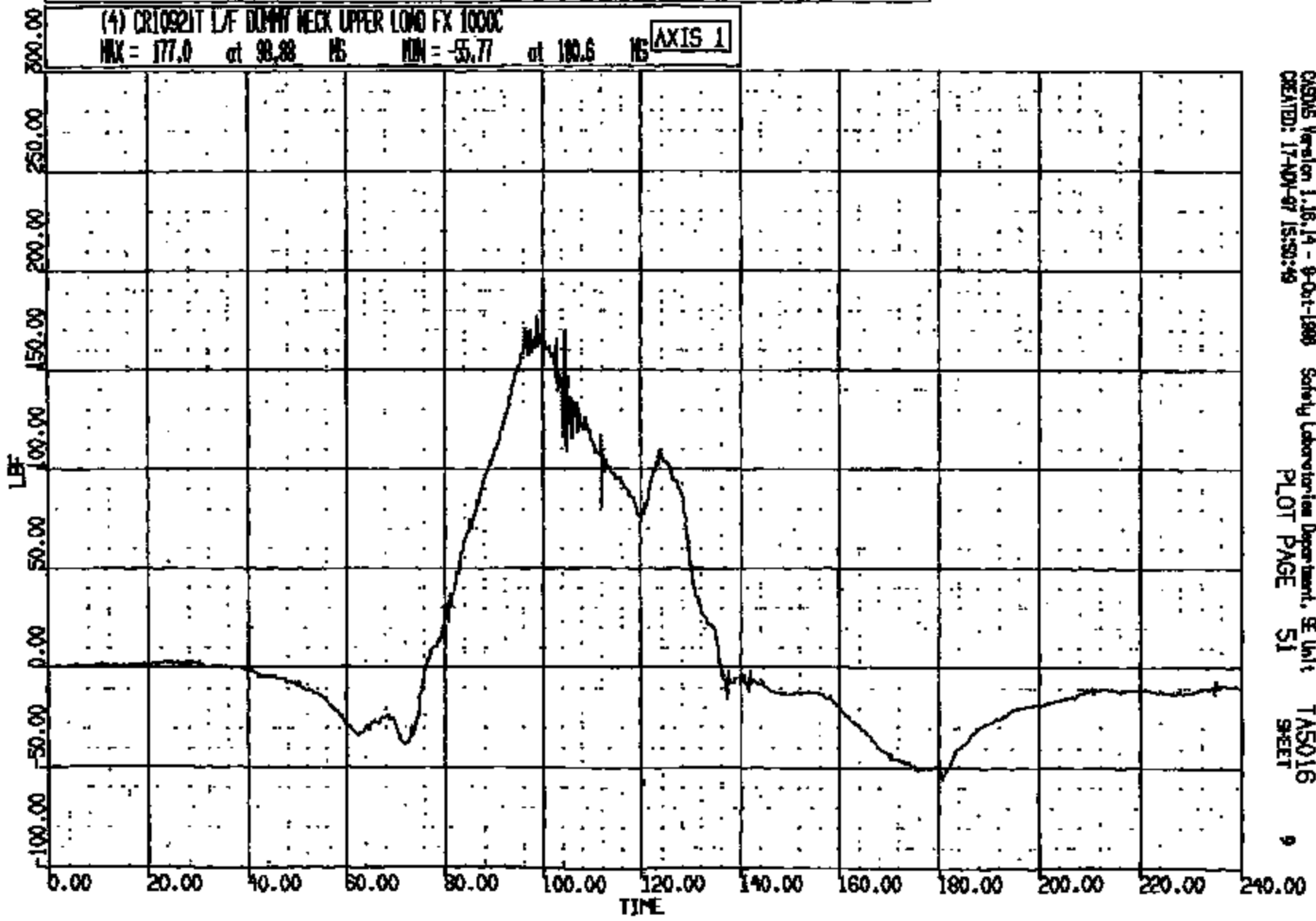


CRTS 0010921



CR R: 10921 TO: TAS016 DATE: 971117 14:41:55  
01-198

(4) CR10921T L/F DUMMY NECK UPPER LOND FX 1000C  
MAX = 177.0 at 98.88 MS MIN = -55.77 at 100.6 MS **AXIS 1**

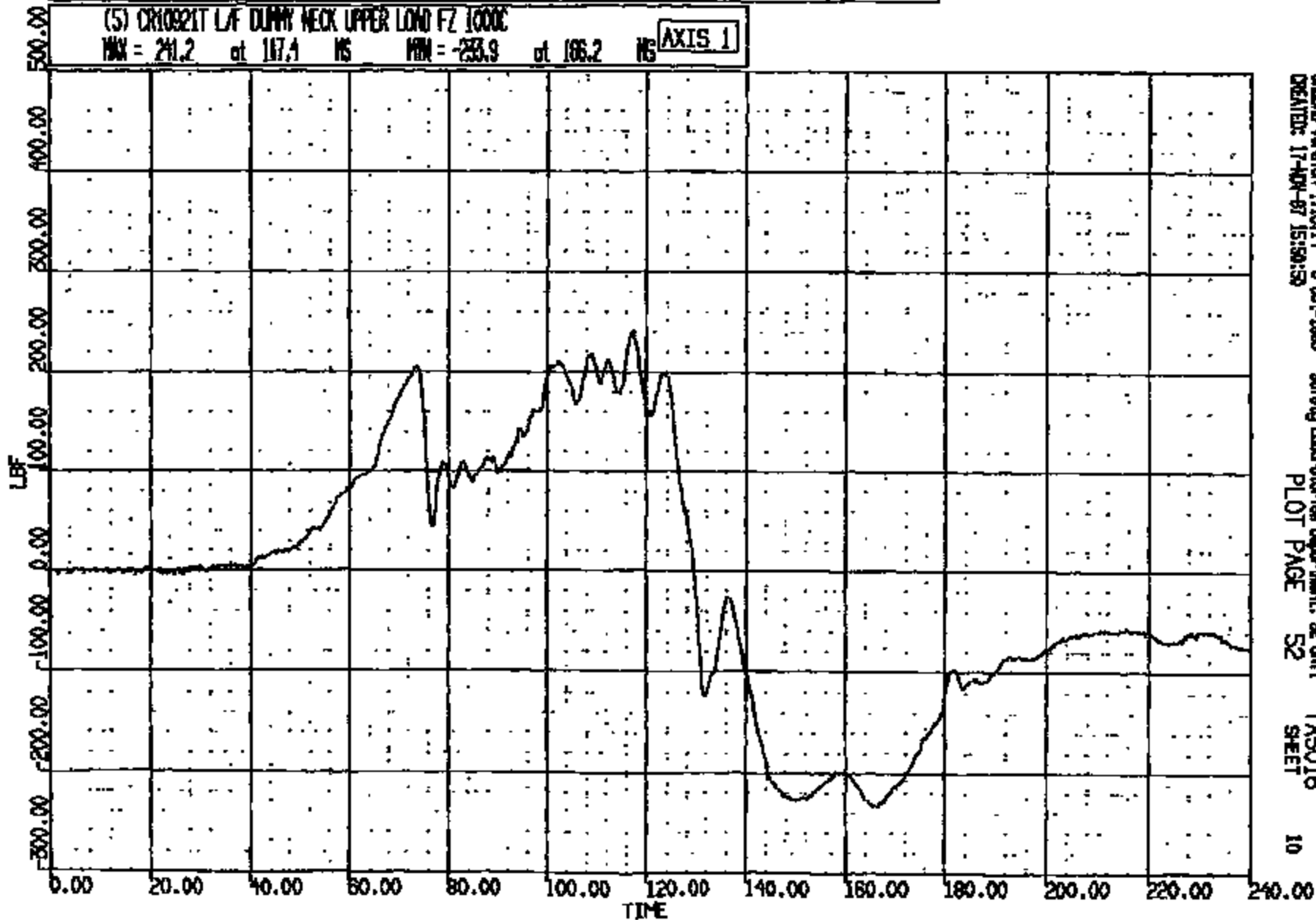


CASIMS Version 1.16.14 - 9-Oct-1998 Safety Laboratories Department, SE Unit  
CREATED: 17-NOV-97 15:50:49  
PLOT PAGE 51  
TAS016  
SHEET 9

CRTS 0010921

CR R: 10921 TO: T45016 DATE: 971117 14:41:53  
01188

(5) CR10921T LAF DUMMY NECK UPPER LOW FZ 1000C  
MAX = 241.2 at 117.1 MS MIN = -233.9 at 166.2 MS **AXIS 1**



CR10921 Version 1.16.14 - 8-02-1998  
CREATED: 17-NOV-97 15:59:59

Safety Laboratories Department, BE Unit  
PLOT PAGE 52

T45016  
SHEET

10

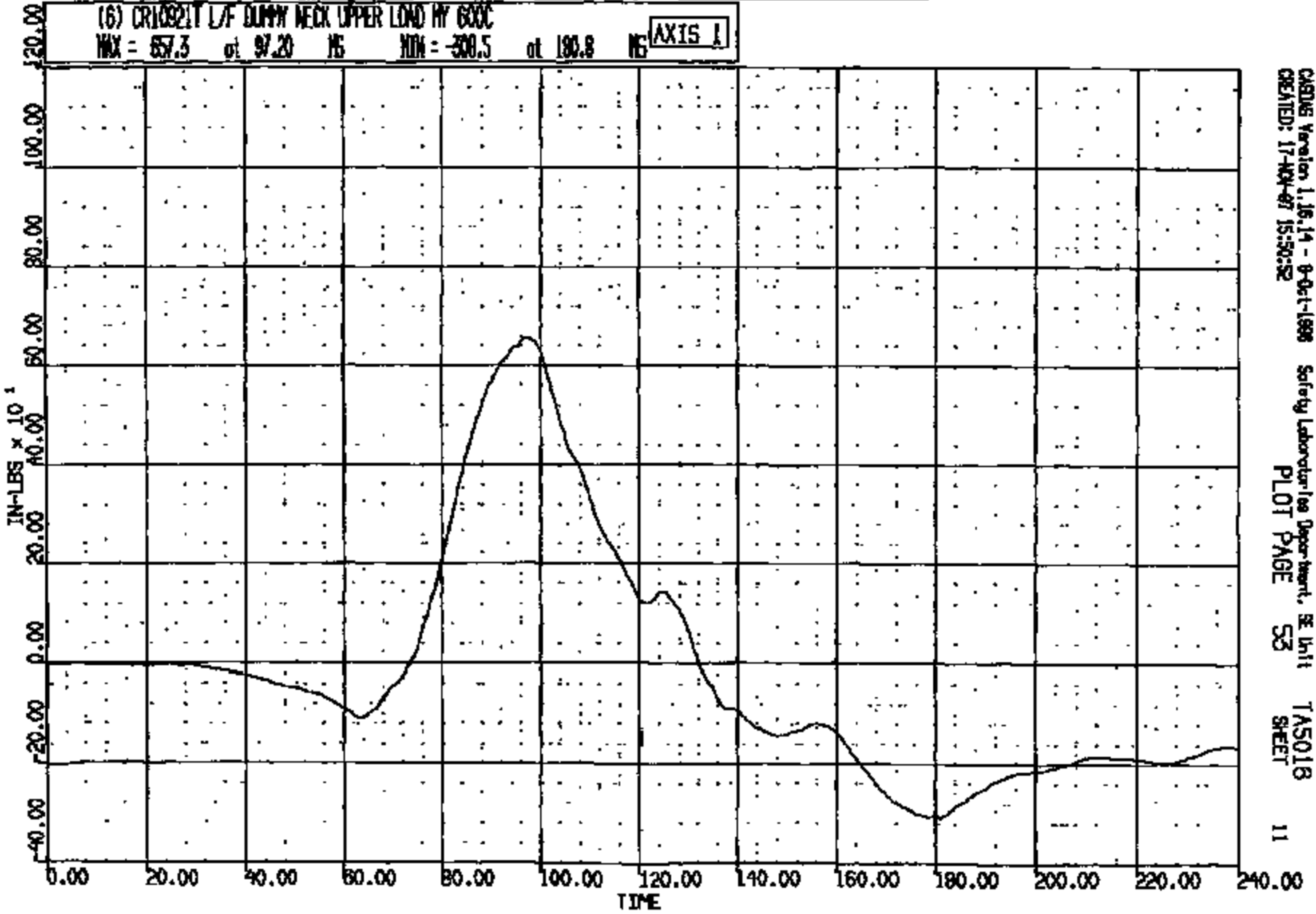
CR10921

00 R: 10921 TO: TAS018 DATE: 971117 14:41:53  
01 188

(6) CR10921 L/F DUMMY NECK UPPER LOAD HY 600C

MAX = 657.3 at 97.20 MS MIN = -300.5 at 180.8 MS

AXIS 1



CASDS Version 1.16.14 - 9-01-1998  
CREATED: 17-NOV-97 15:50:52

Safety Laboratories Department, SE Unit  
PLOT PAGE 53

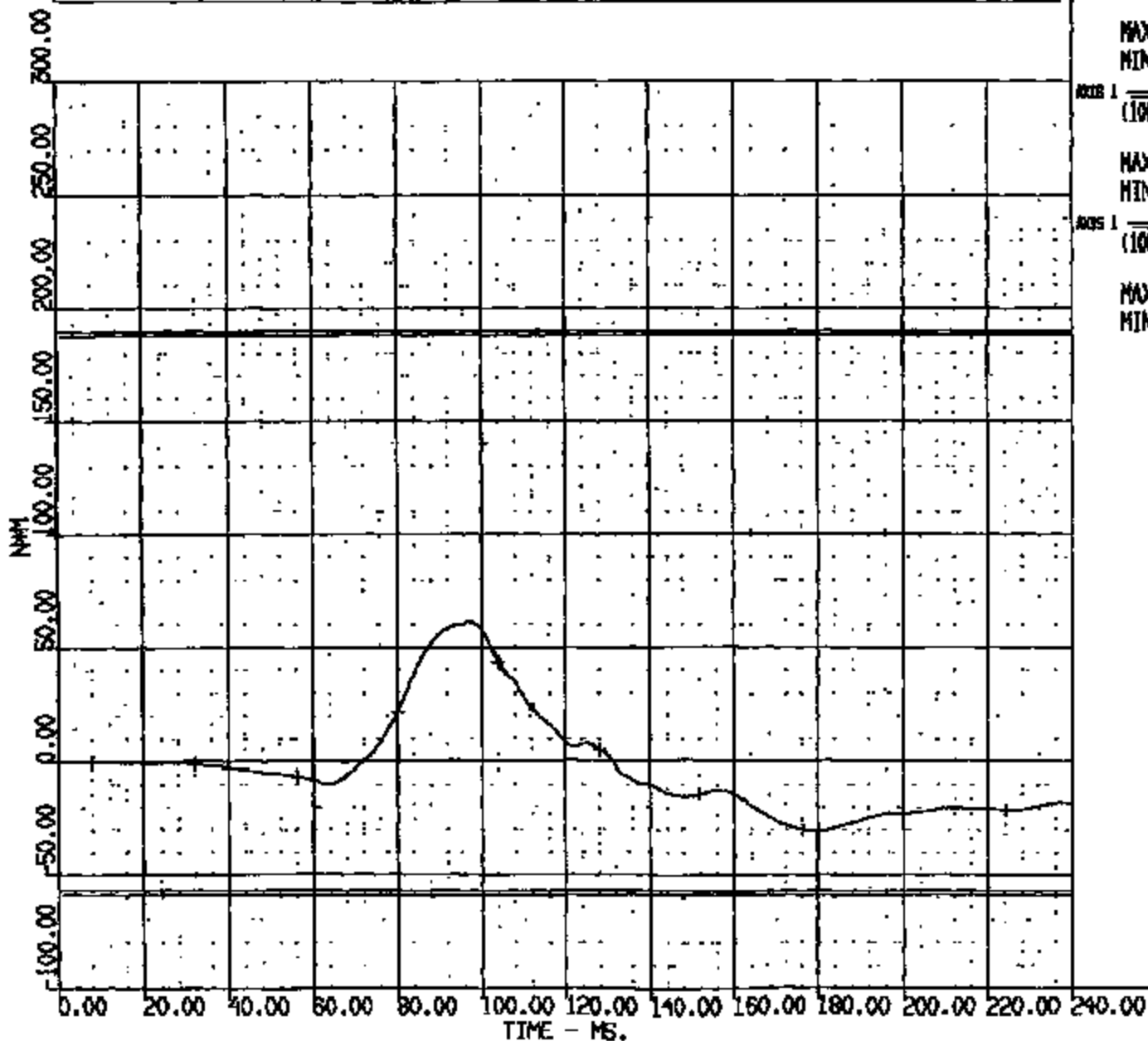
TAS018  
SHEET

11

CRTS 0010921

NECK BENDING MOMENT: FLEXION & EXTENSION  
 INPUT CR1098: TLL/F\_DUMMY\_NECK\_UPPER\_LOAD\_MY\_8000  
 FILE: CR1098:TLL/F\_DUMMY\_NECK\_UPPER\_LOAD\_FX\_10000  
 CR R: 10921 TO: T45016 DATE: 071117 14:41:58  
 HYBRID III CRITERIA PLOT - BOTH X DUMMY

FOREIGN



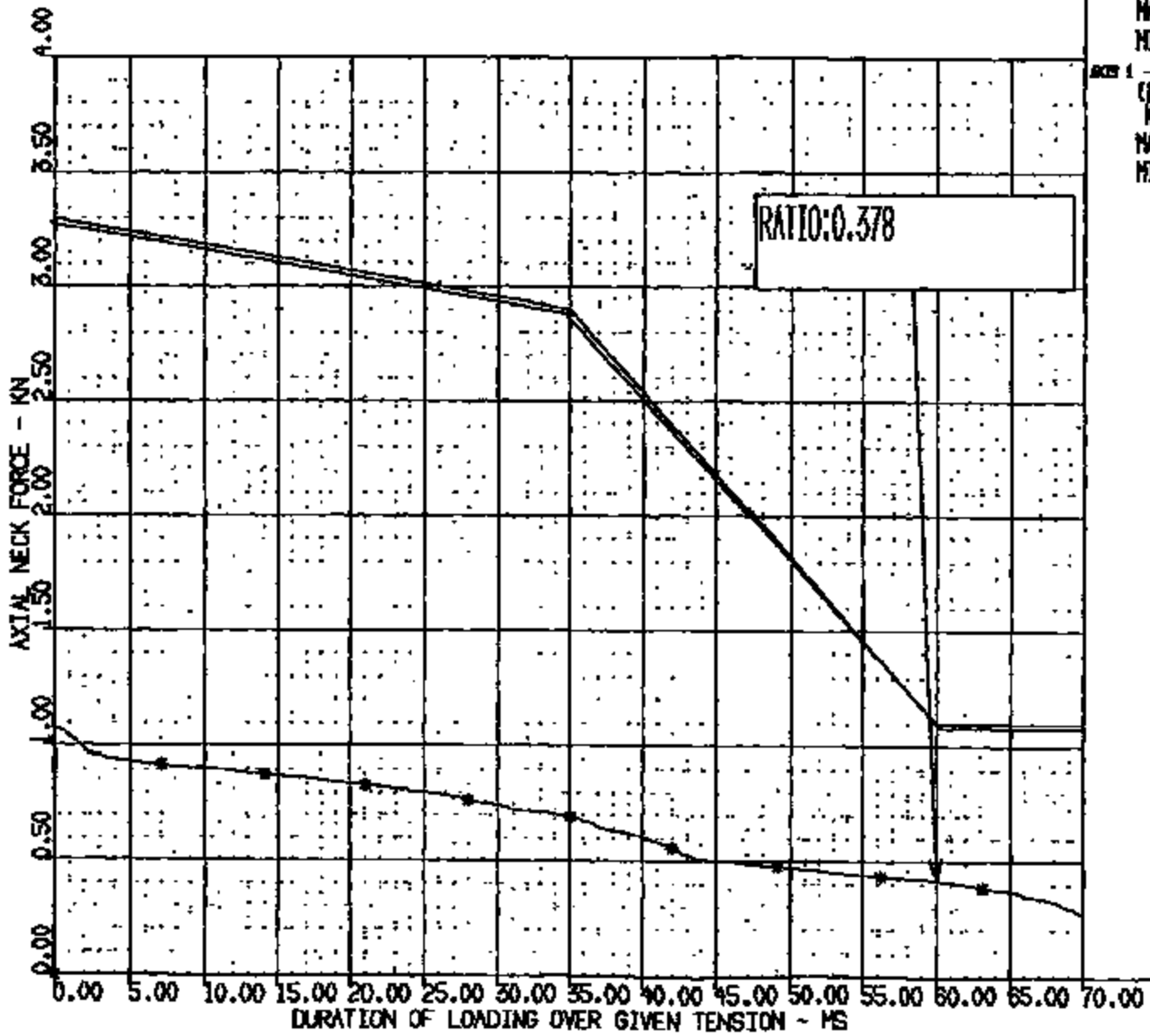
MAX 1	(10015) CORRECTED NECK MOMENT MY
MAX = 61.85	at 97.12 MS
MIN = -30.65	at 180.9 MS
MAX 1	(10015) MAXIMUM NECK EXTENSION
MAX = -57.00	at 0.0000E+00 MS
MIN = -57.00	at 140.0 MS
MAX 1	(10015) MAXIMUM NECK FLEXION
MAX = 190.0	at 0.0000E+00 MS
MIN = 190.0	at 0.0000E+00 MS

CRASH Version 1.16.14 - 0-01-1998  
 CREATED: 17-MAY-07 15:50:11

Safety Laboratory/Injury Department, SE Unit  
 T45016  
 PLOT PAGE 33 SHEET

AXIAL NECK TENSION LOADING  
 CR R: 10921 TO: TASO18 DATE: 971117 14:41:53  
 HYBRID III CRITERIA PLOT - 50TH X DUMMY  
 DURATION CURVES MAY INCLUDE MULTIPLE PEAKS

FOREIGN



AXIS 1  
 (10019) CRITERIA LINE FOR AXIAL  
 NECK TENSION LOADING  
 MAX = 3.300 at 0.0000E+00 MS  
 MIN = 1.100 at 60.00 MS

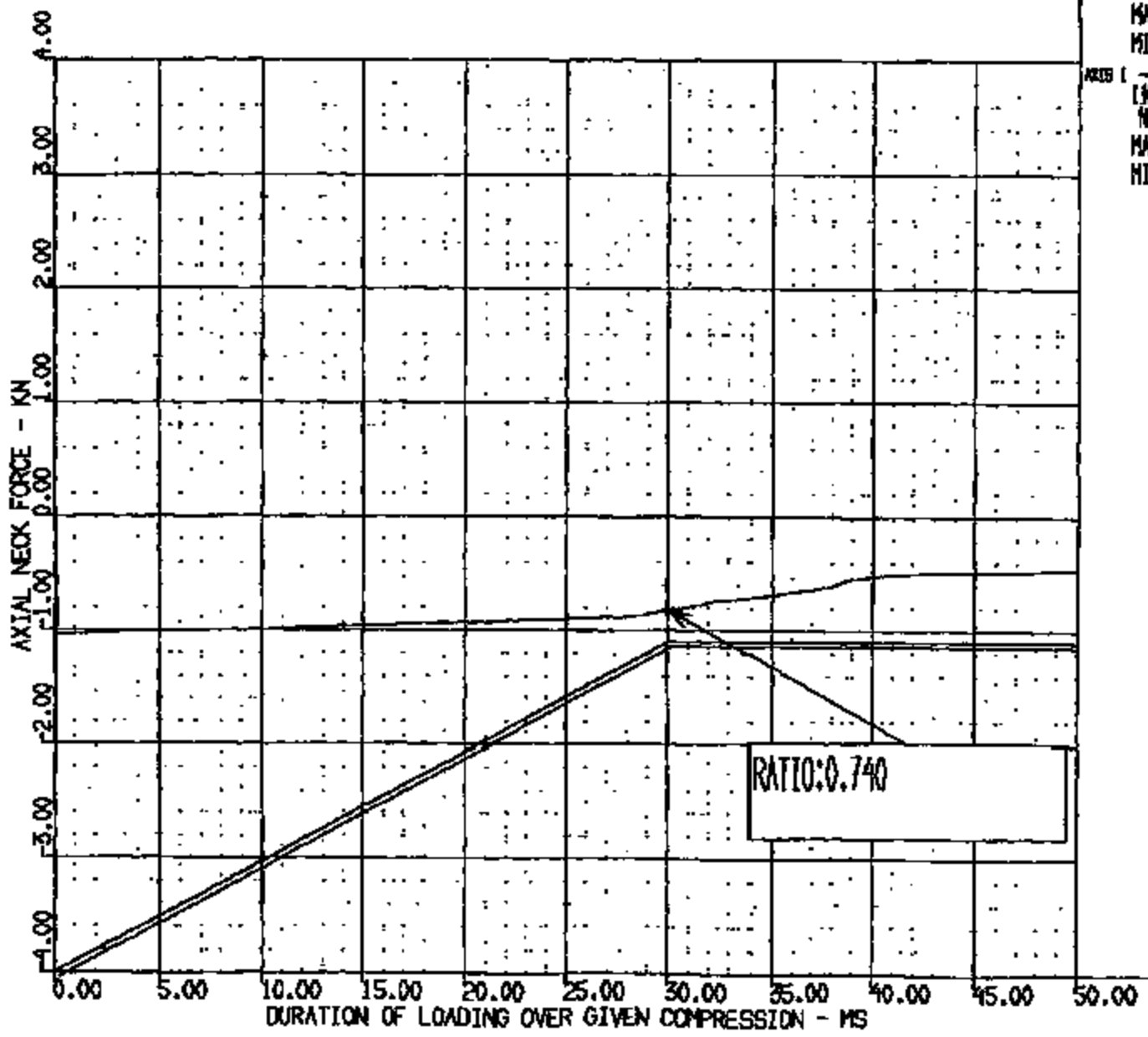
AXIS 1  
 (10018) DURATION CRITERIA L/F DUMMY  
 NECK UPPER LOAD FZ 100  
 MAX = 1.073 at 0.7938E-01 MS  
 MIN = 0.0000E+00 at 0.0000E+00 MS

OASIS Version 1.10.14 - 8-Oct-1998 Safety Laboratories Department, SE Unit 1 TASO18.  
 CREATED: 17-NOV-97 15:50:13 PLOT PAGE 34 SHEET 13

CRITS 0010921

AXIAL NECK COMPRESSION LOADING  
 CR #: 10921 TO: T45016 DATE: 871117 14:41:53  
 HYBRID III CRITERIA PLOT - 50TH % DUMMY  
 DURATION CURVES MAY INCLUDE MULTIPLE PEAKS

FOREIGN



AKB I  
 (10921) CRITERIA LINE FOR AXIAL  
 NECK COMPRESSION LOADING  
 MAX = -1.100 at 30.00 MS  
 MIN = -1.000 at 0.0000E+00 MS

AKB I  
 (10921) DURATION CRITERIA L/F DUMMY  
 NECK UPPER LOAD FZ 100  
 MAX = 0.0000E+00 at 0.0000E+00 MS  
 MIN = -1.040 at 0.7999E-01 MS

CRSWS Version 1.18.14 - 8-Oct-1986 Safety Laboratories Department, SE Unit T45016  
 CREATED: 17-AUG-87 15:50:14 PLOT PAGE 35 SHEET 14

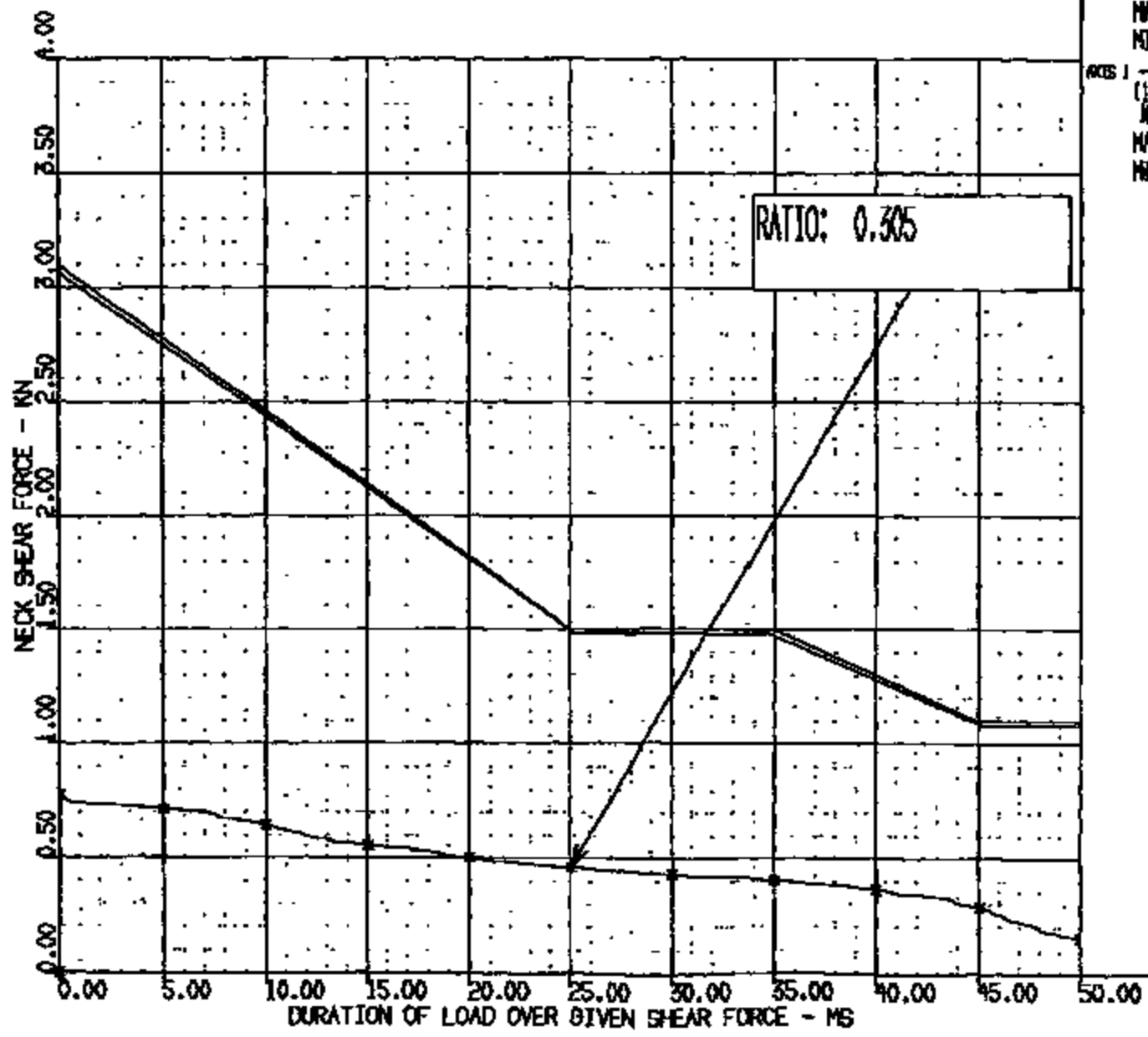
CRTS 0010921

FORE NECK WRT HEAD SHEAR FORCE  
 CR R: 10921 TO: T45016 DATE: 871117 14:41:53  
 HYBRID III CRITERIA PLOT - BOTH X DUMMY  
 DURATION CURVES MAY INCLUDE MULTIPLE PEAKS

FOREIGN

AKS 1  
 (10923) CRITERIA LINE FOR FORE  
 NECK WRT HEAD SHEAR FORCE  
 MAX = 3.100 at 0.0000E+00 MS  
 MIN = 1.100 at 45.00 MS

AKS 1  
 (10922) DURATION CRITERIA L/F DUMMY  
 NECK UPPER LOAD FX 100  
 MAX = 0.7874 at 0.7999E-01 MS  
 MIN = 0.0000E+00 at 0.0000E+00 MS

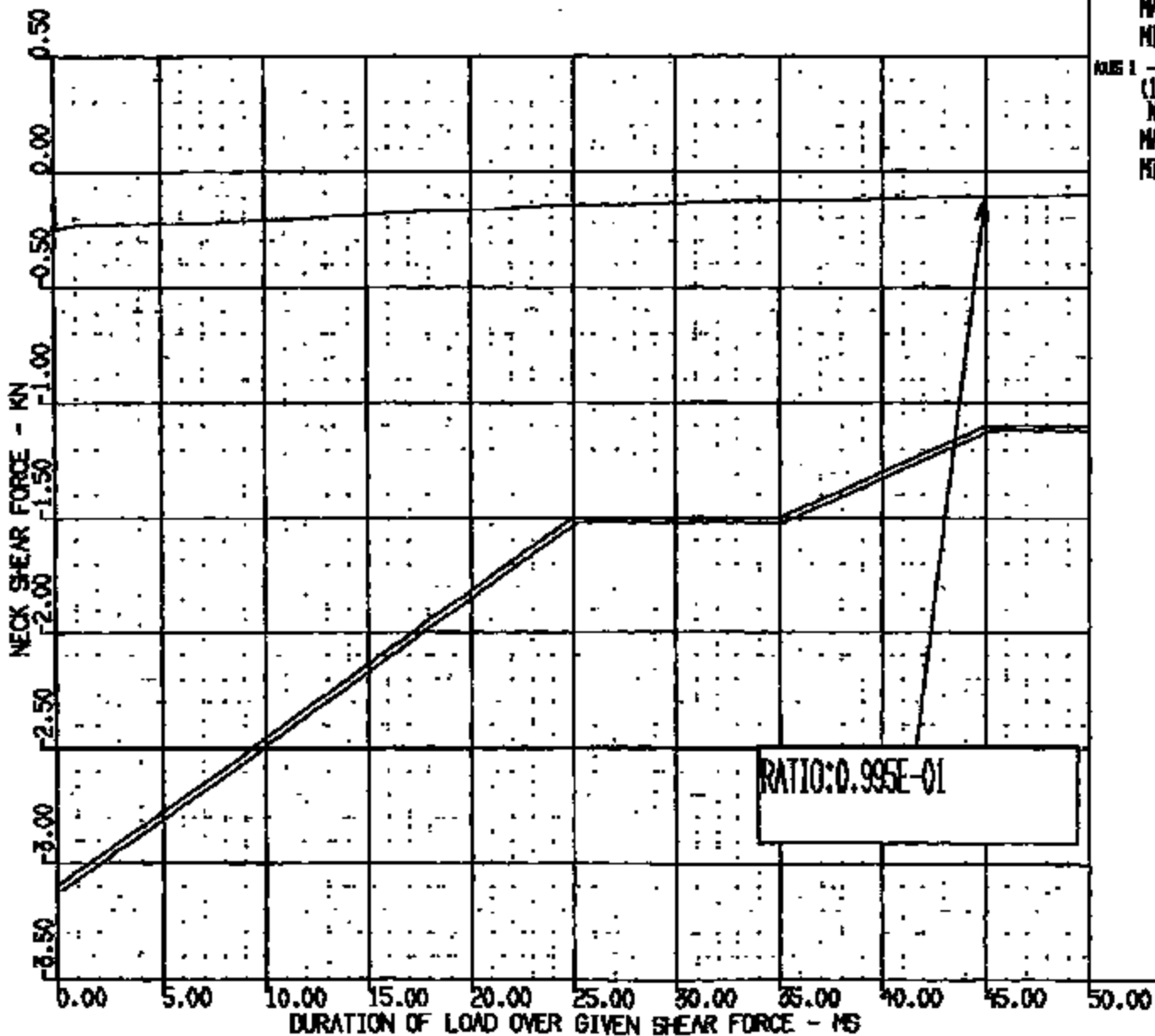


CRYSIS Version 1.18.14 - 9-Oct-1988 Safety Laboratories Department, SE Unit T45016  
 CREATED: 17-NOV-87 15:52:18 PLOT PAGE 36 SHEET 15

CRIS 0010921

AFT NECK WRT HEAD SHEAR FORCE  
 CR R: 10921 TO: TAS016 DATE: 871117 14:41:58  
 HYBRID III CRITERIA PLOT - 50TH X DUMMY  
 DURATION CURVES MAY INCLUDE MULTIPLE PEAKS

FOREIGN



ABS 1  
 (10940) CRITERIA LINE FOR AFT NECK  
 WRT HEAD SHEAR FORCE  
 MAX = 1.100 at 45.00 MS  
 MIN = 3.100 at 0.0000E+00 MS

ABS 2  
 (10920) DURATION CRITERIA L/F DUMMY  
 NECK UPPER LOAD FX 100  
 MAX = 0.0000E+00 at 0.0000E+00 MS  
 MIN = .2181 at 0.7995E-01 MS

CREATED: 17-AUG-87 15:50:17

USARMC Vessel 1, 10, 14 - 8-04-1988 Safety Laboratories Department, SE Unit

TAS016

16

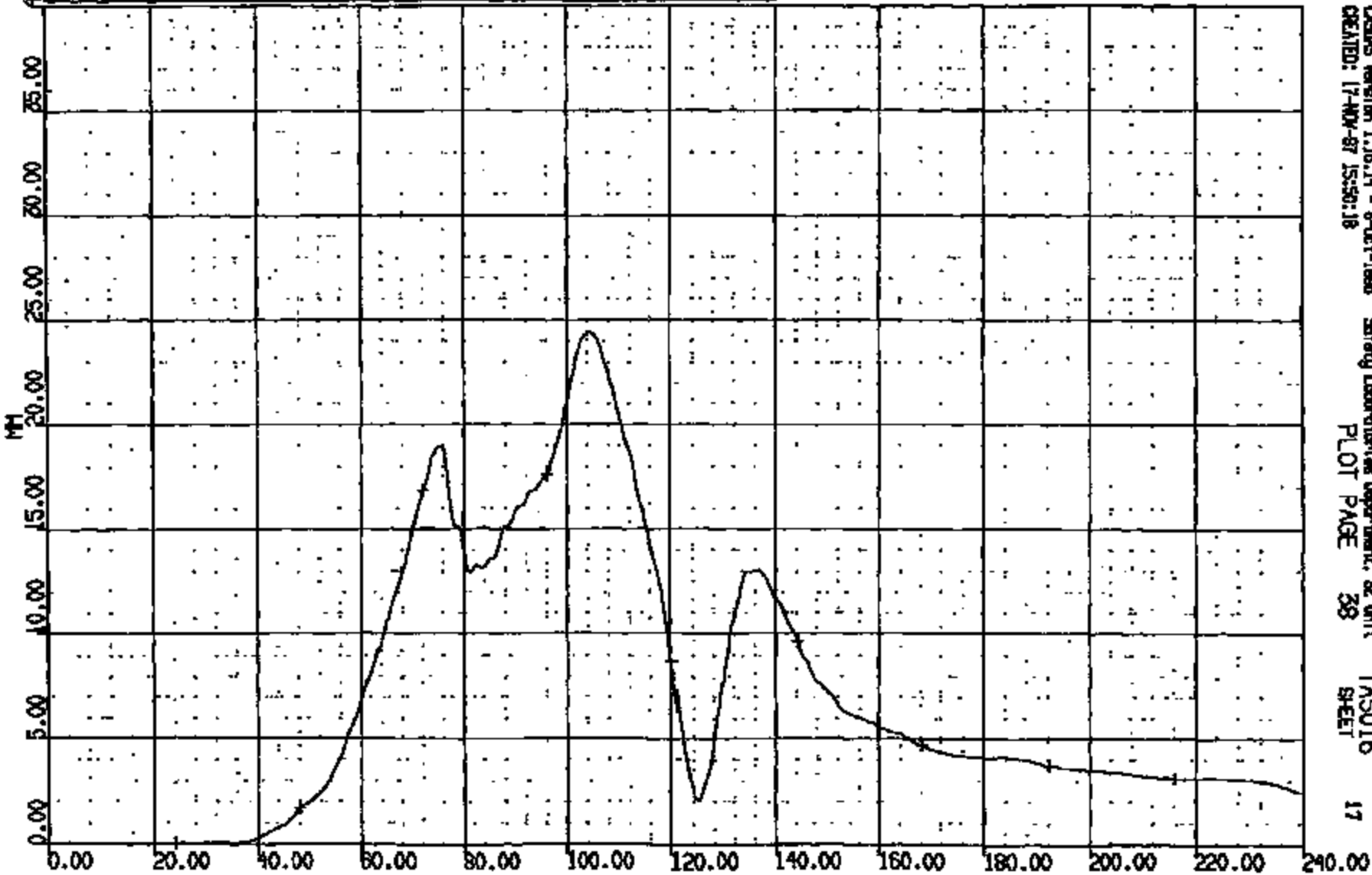
CRIS 0010921



THORAX COMPRESSION CRITERION

(10046) CR10921T L/F DUMMY CHEST DEFLECTION 180C MM  
MAX = 21.41 at 101.5 MS MIN = 0.3402E-01 at 6.160 MS

AXIS 1



OSGUS Version 1.16.14 - 8-Oct-1988  
CREATED: 17-NOV-87 15:50:18

Safety Laboratories Department, SE Unit  
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SHEET

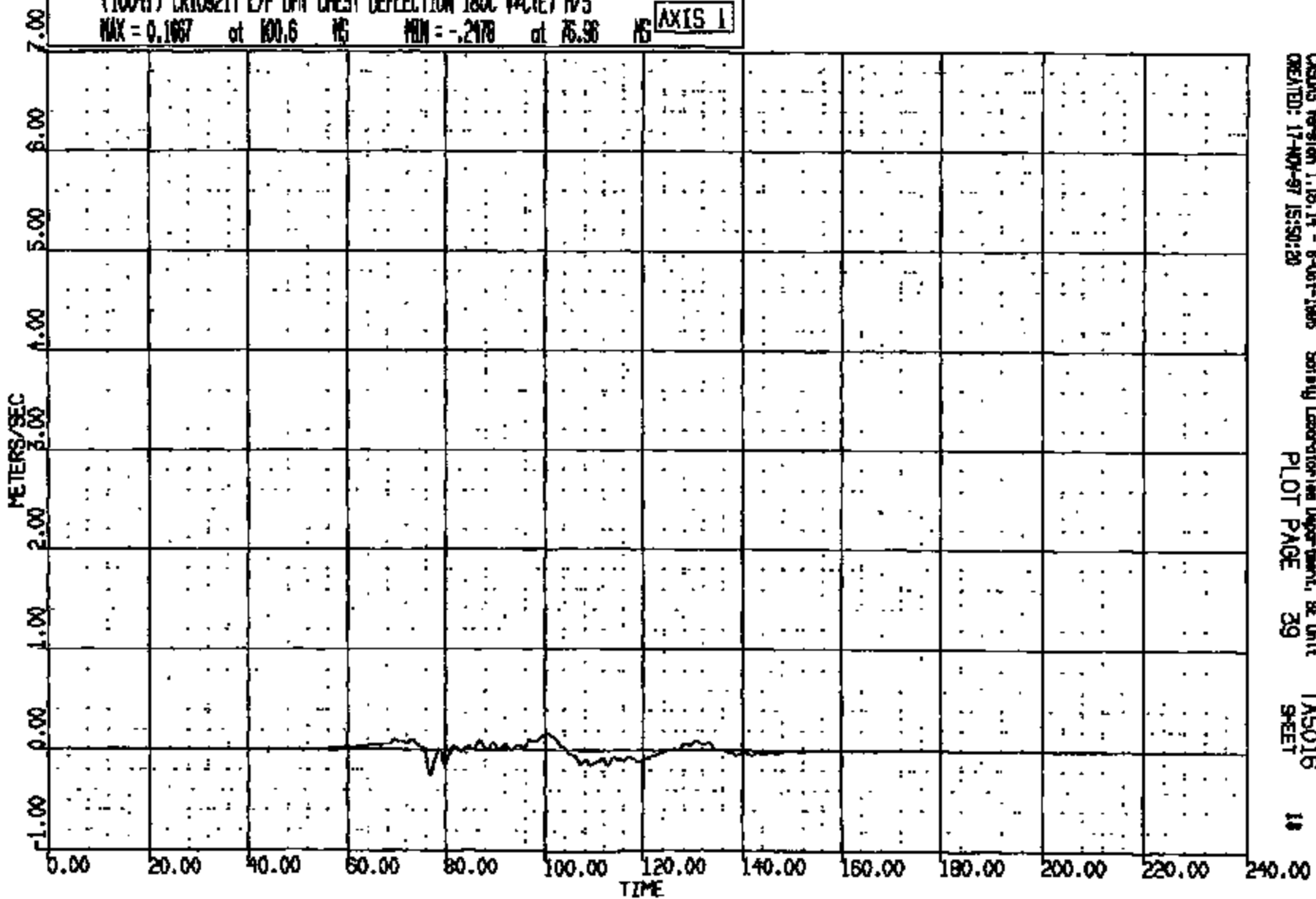
CRTS 0010921

OP R: 10921 TO: TA5016 DATE: 871117 14:41:55  
D-198

EXPERIMENTAL

(10047) CR10921T L/F DMV CHEST DEFLECTION (800 V/CIE) M/S  
MAX = 0.1667 at 100.6 MS MIN = -.2178 at 75.96 MS

AXIS 1



CRS018 Version 1.16.14 - 8-Oct-1985 Safety Laboratories Department, BE Unit  
CREATED: 17-NOV-87 15:50:20  
PLOT PAGE 39  
TA5016  
SHEET 18

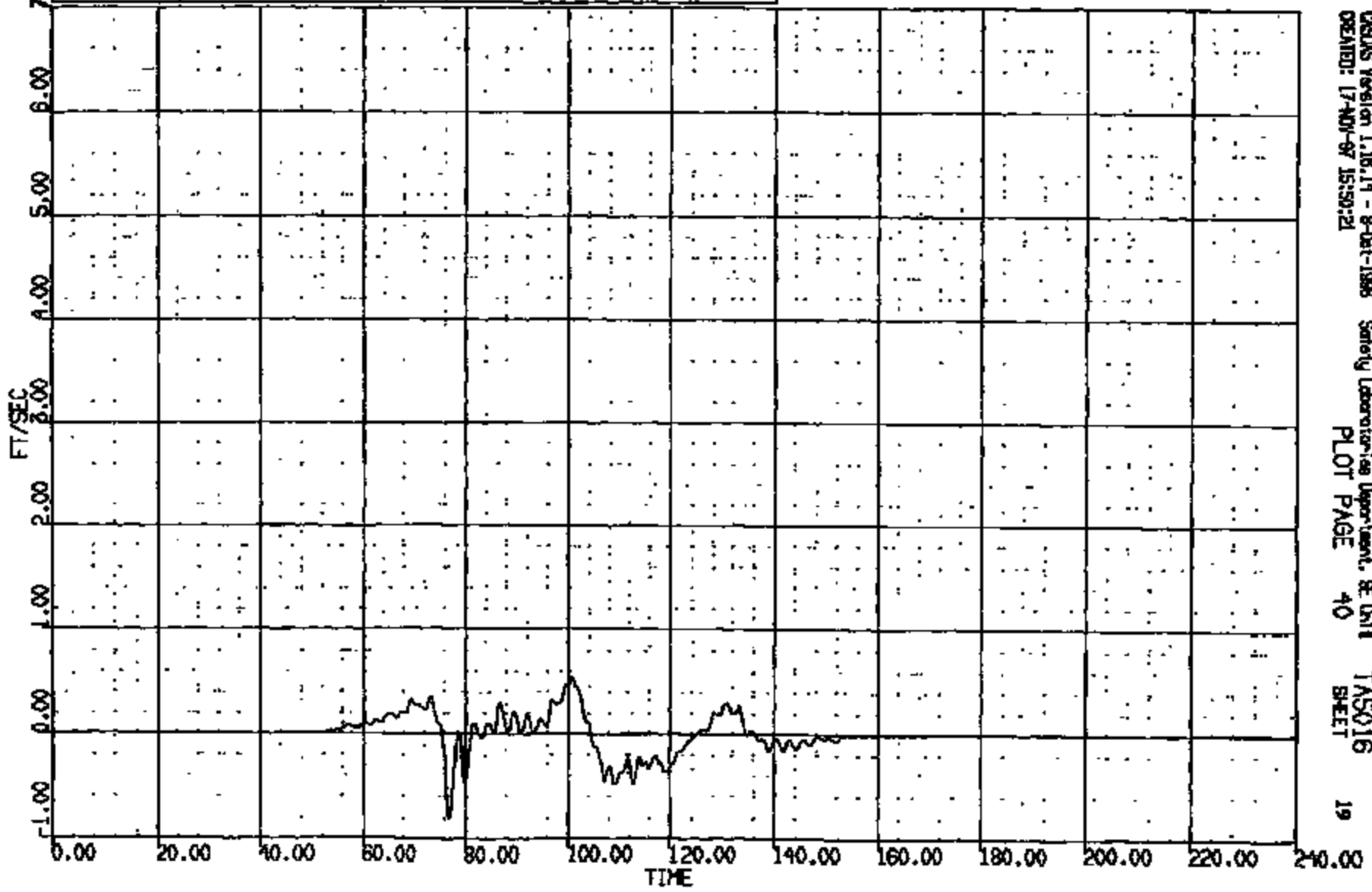
CRTS 0010921

CR R: 10921 TO: T45016 DATE: 871117 14:41:55  
D-198

EXPERIMENTAL

(10048) CR10921T L/F DRY CHEST DEFLECTION (80C V%1E) F/S  
MAX = 0.5489 at 100.6 MS MIN = -.8129 at 76.96 MS

AXIS 1

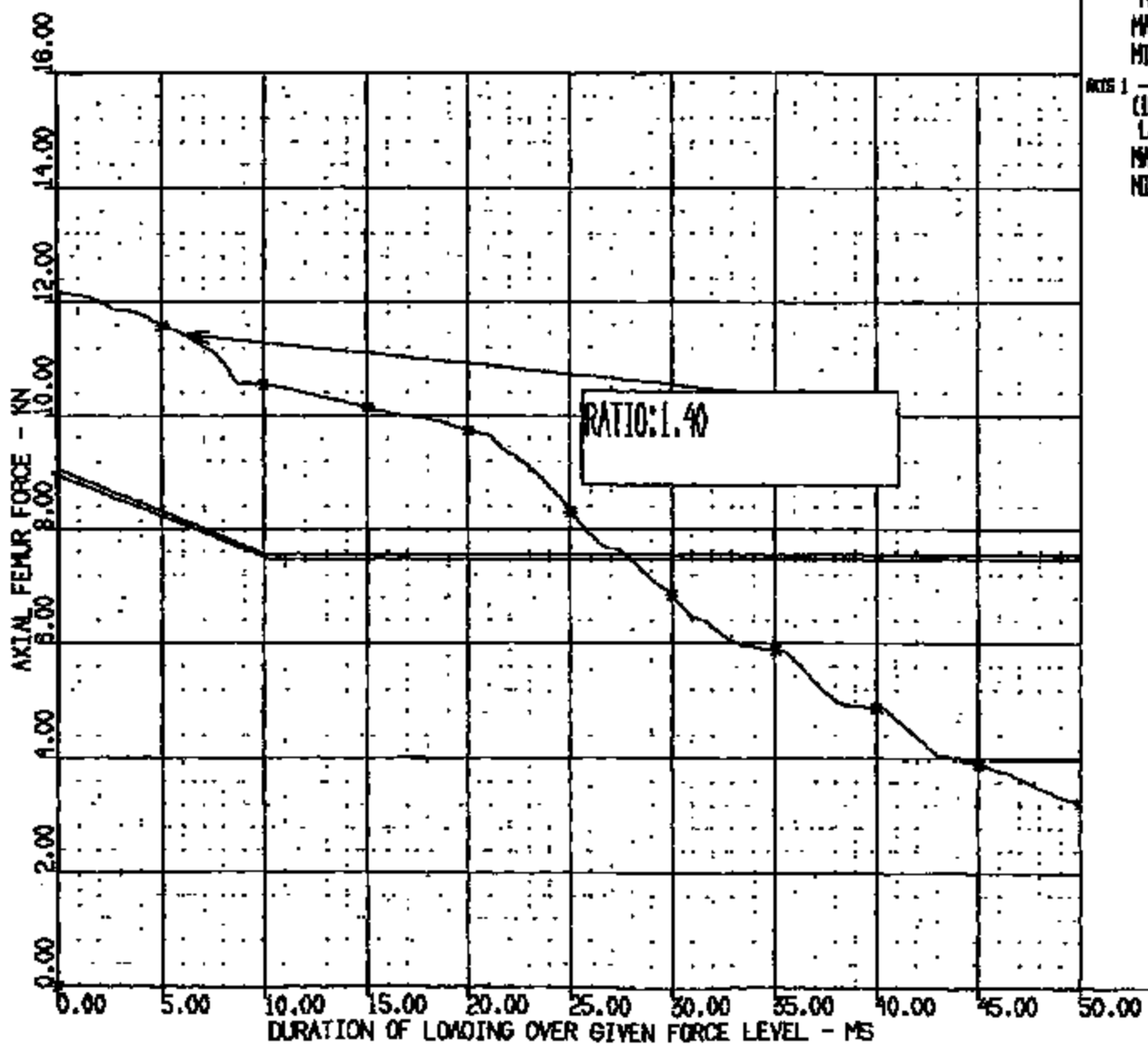


CASYS Version 1.18.14 - 8-Oct-1988 Safety Laboratories Department, SE Unit  
CREATED: 17-NOV-87 15:50:21 PLOT PAGE 40 T45016 SHEET 19

CRTS 0010921

AXIAL FEMUR FORCE  
 CR R: 10921 TO: T45016 DATE: 071117 14:41:53  
 HYBRID III CRITERIA PLOT - 50TH X DUMMY  
 DURATION CURVES MAY INCLUDE MULTIPLE PEAKS

FOREIGN



AXIS 1  
 (10953) CRITERIA LINE FOR AXIAL FEMUR FORCE  
 MAX = 9.070 at 0.0000E+00 MS  
 MIN = 7.560 at 10.00 MS

AXIS 1  
 (10952) DURATION CRITERIA L/F DUMMY L/FEMUR LOAD FZ 600C  
 MAX = 12.18 at 0.7396E-01 MS  
 MIN = 0.0000E+00 at 0.0000E+00 MS

RATIO: 1.40

CASING Version 1.16.14 - B-Oct-1995 Safety Laboratories Department, E Unit T45016.  
 OPERATOR: 17-NOV-97 15:50:22 PLOT PAGE 41 SHEET 20

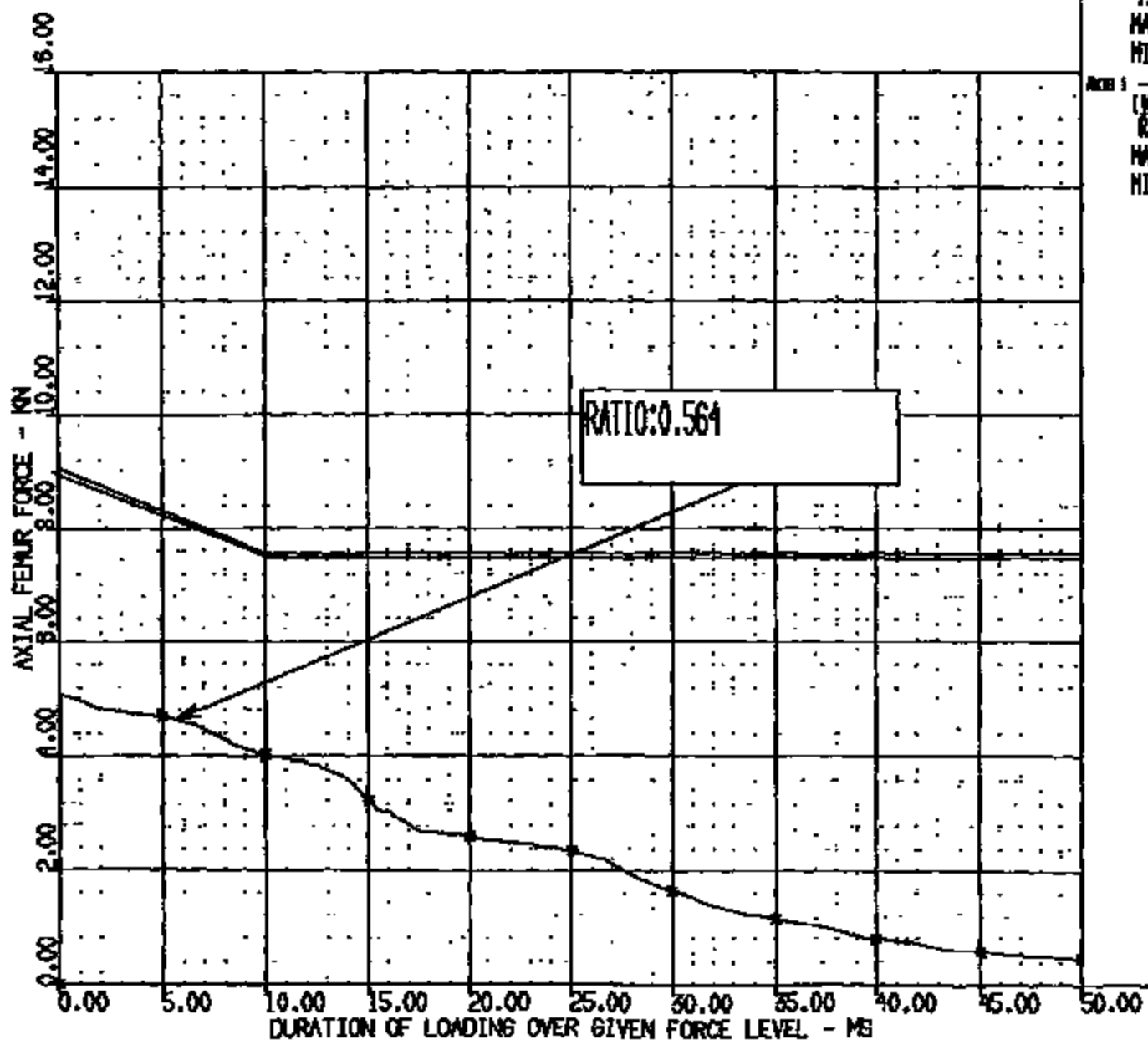
CRIS 0010921

AXIAL FEMUR FORCE  
 CR R: 10921 TO: TAS016 DATE: 871117 14:41:53  
 HYBRID III CRITERIA PLOT - 50TH % DUMMY  
 DURATION CURVES MAY INCLUDE MULTIPLE PEAKS

FOREIGN

AKS 1  
 (LINE) CRITERIA LINE FOR AXIAL FEMUR FORCE  
 MAX = 9.070 at 0.0000E+00 MS  
 MIN = 7.560 at 10.00 MS

AKS 2  
 (LINE) DURATION CRITERIA L/F DUMMY UPPER LIMB FZ GRAC  
 MAX = 5.074 at 0.7998E-01 MS  
 MIN = 0.0000E+00 at 0.0000E+00 MS

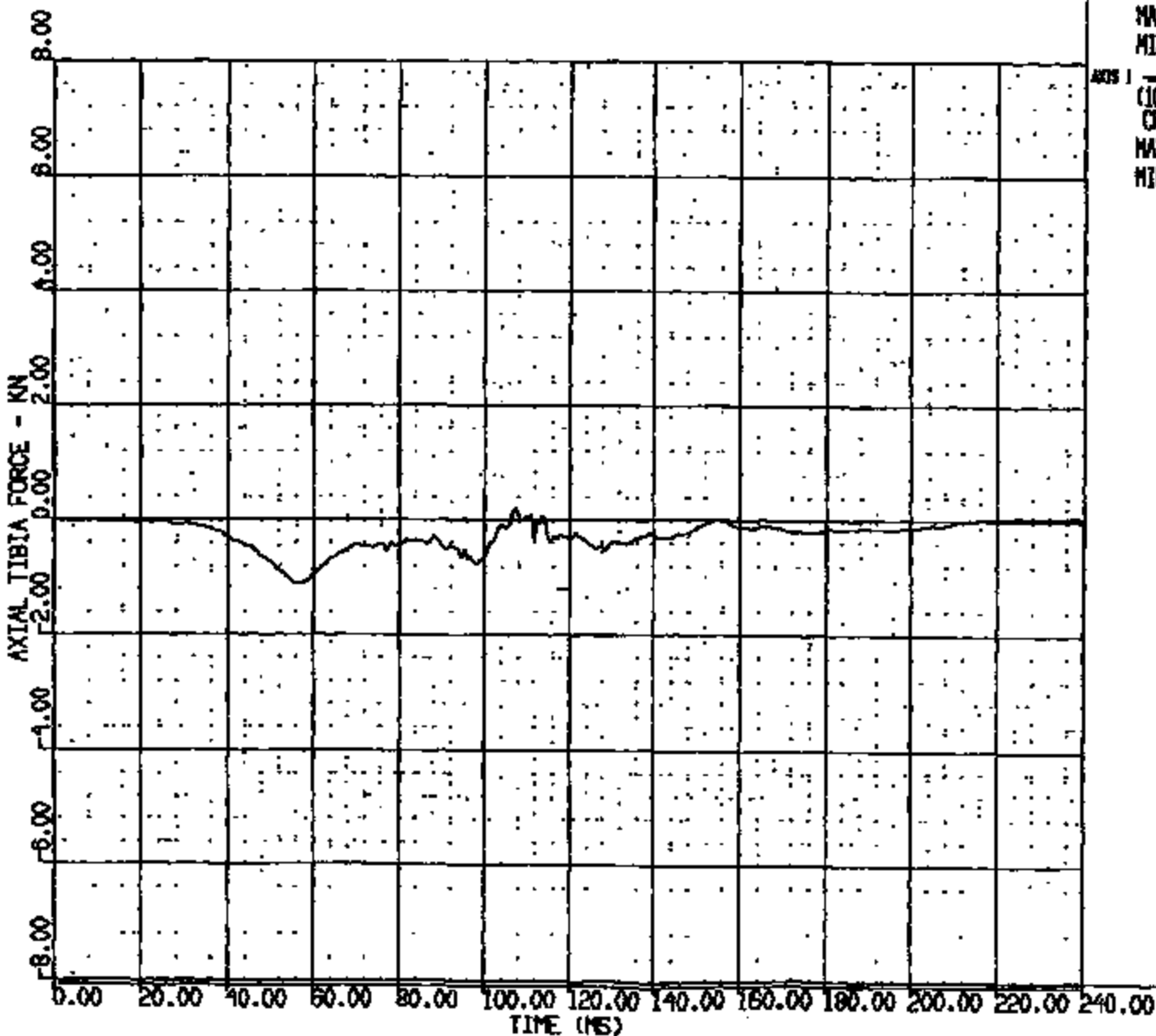


CASRUS Version 1.1b.14 - 8-Oct-1988 Safety Laboratories Department, SE Unit TAS016  
 CREATED: 17-NOV-87 15:50:24 PLOT PAGE 42 SHEET 21

CRIS 0010921

TIBIA COMPRESSIVE FORCE CRITERION  
 CR R: 10921 TO: TA5016 DATE: 971117 14:41:55

FOREIGN			
AXIS 1			
(10967) CRITERION LAF DUMMY LAP/TIBIA			
LMD FZ 600C			
MAX =-0.1969	at 107.2	MS	
MIN =-1.128	at 56.98	MS	
AXIS 2			
(10068) MAXIMUM COMPRESSIVE FORCE			
CRITERIA LINE			
MAX =-8.000	at 0.0000E+00	MS	
MIN =-8.000	at 90.00	MS	



CADDAS Version 1.15.14 - 8-Oct-1995 Safety Laboratory Department, SE Unit  
 CREATED: 17-NOV-97 15:50:28  
 PLOT PAGE 43  
 TA5016  
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CRIS 0010921

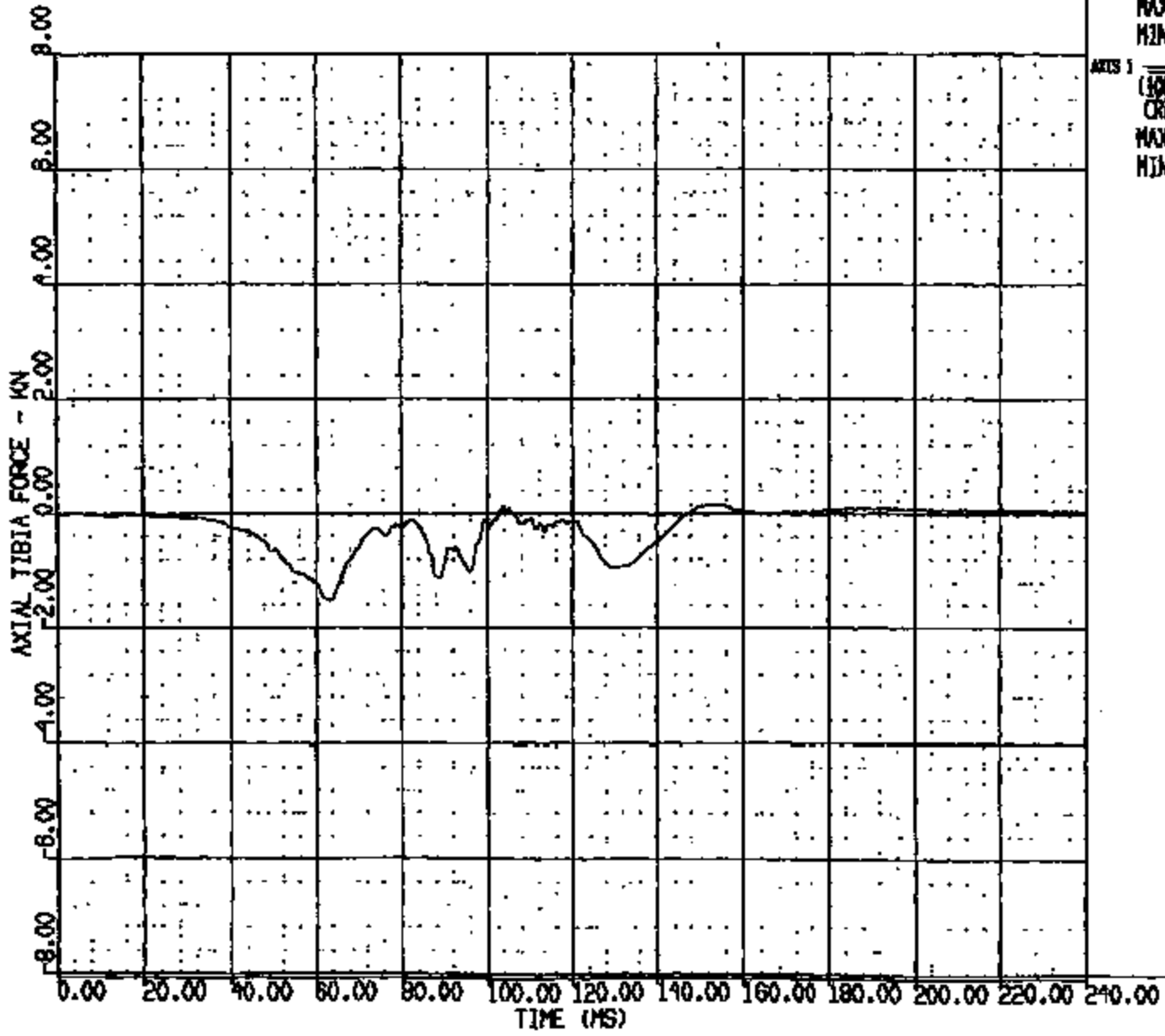
TIBIA COMPRESSIVE FORCE CRITERION

CR R: 10921 TO: TA5016 DATE: 971117 14:41:55

FOREIGN

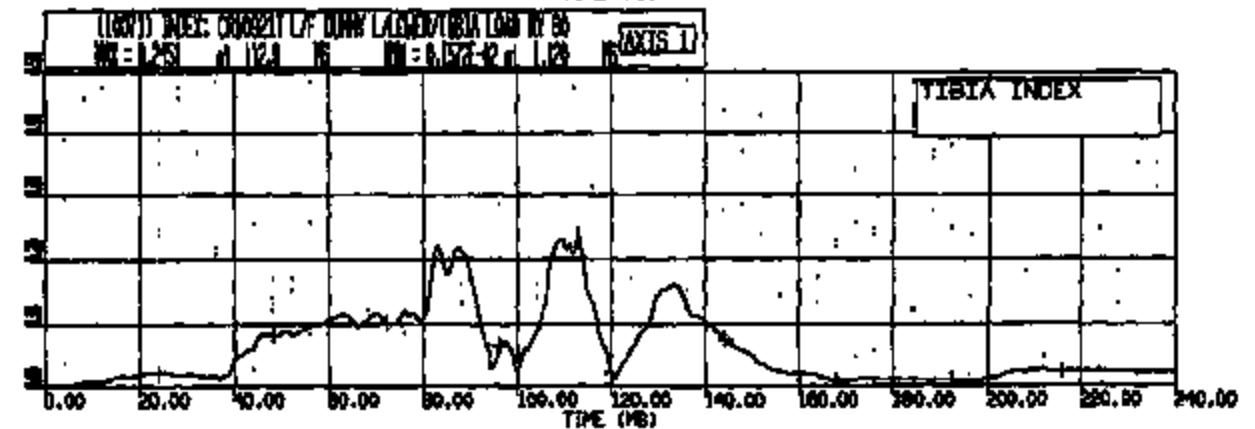
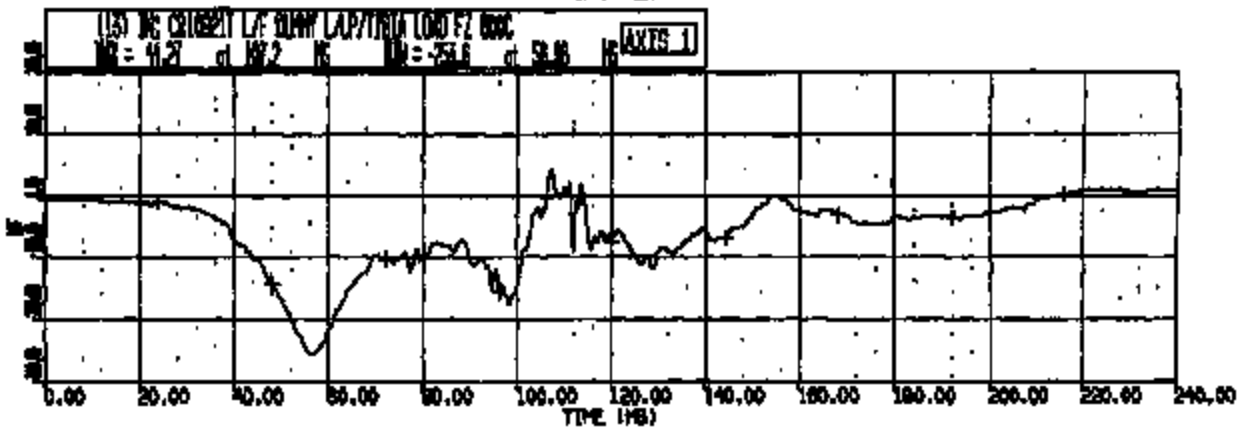
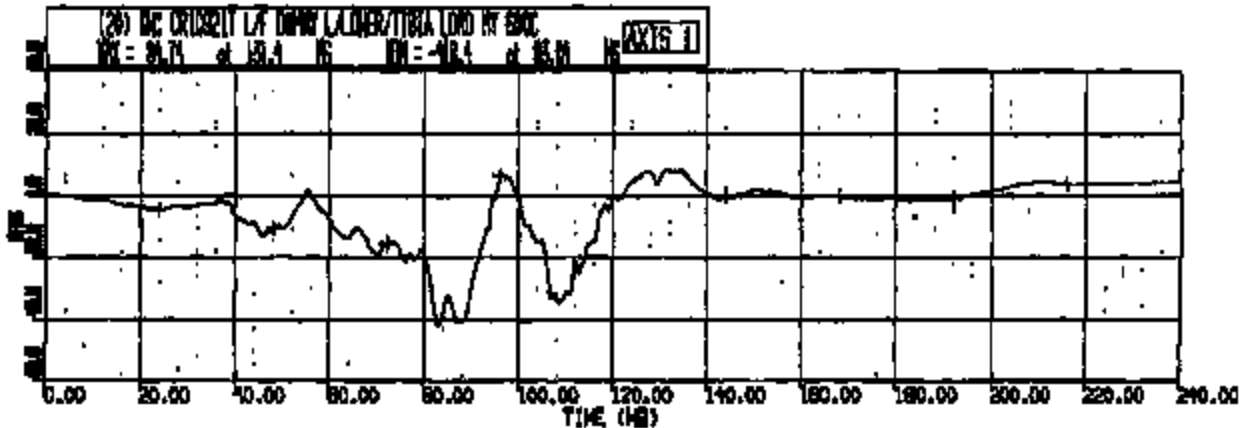
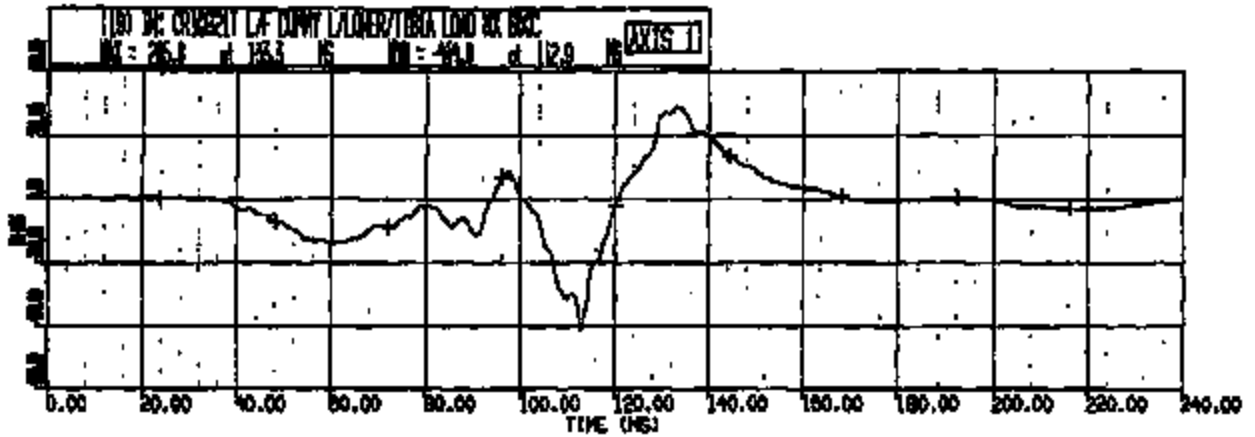
ARTS 1  
 (10921) CRIOZET L/R DUMMY R/UP/TIBIA  
 LOAD FZ 60AC  
 MAX =0.1700 at 155.5 MS  
 MIN =-1.510 at 63.60 MS

ARTS 1  
 (10921) MAXIMUM COMPRESSIVE FORCE  
 CRITERIA LINE  
 MAX =-8.000 at 0.000E+00 MS  
 MIN =-8.000 at 90.00 MS



CIGRUS Version 1.16.14 - 8-Oct-1999 Safety Laboratory/Ine Department, SE Unit  
 CREATED: 17-MAY-97 15:50:28 PLOT PAGE 44 TA5016 SHEET 23

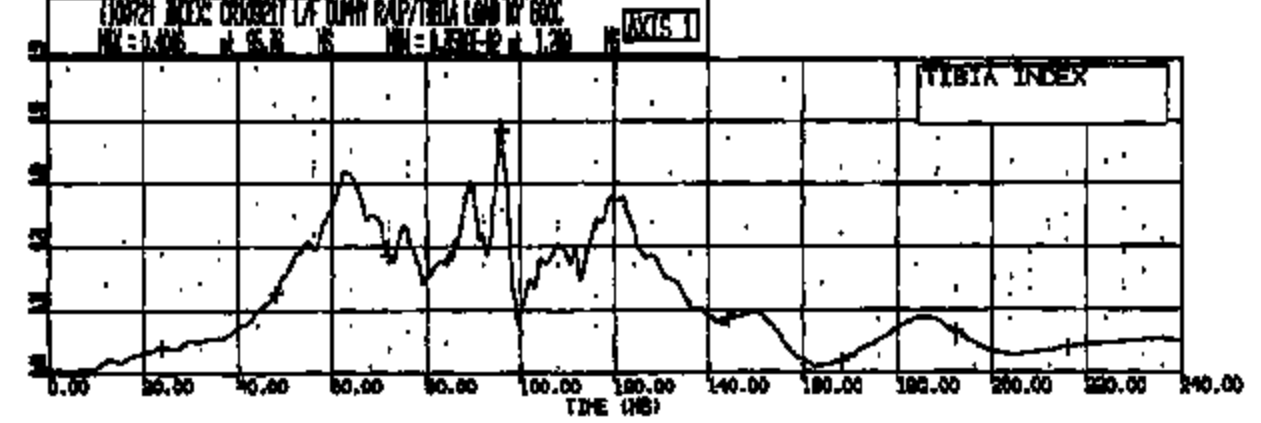
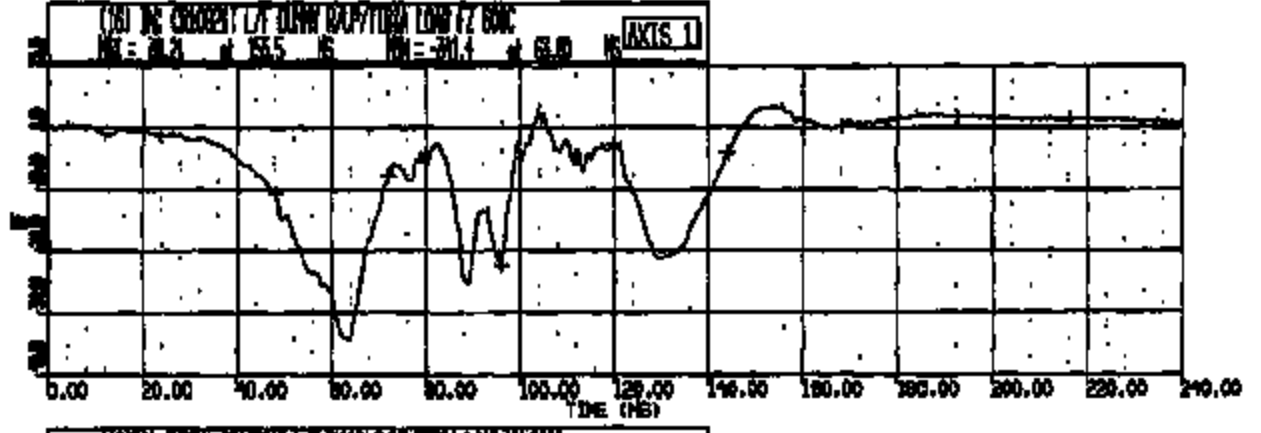
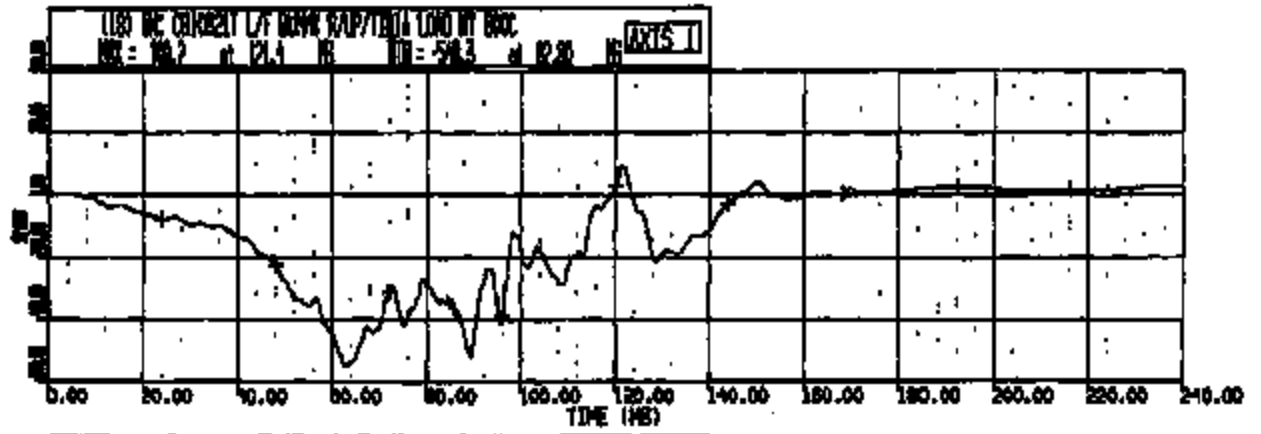
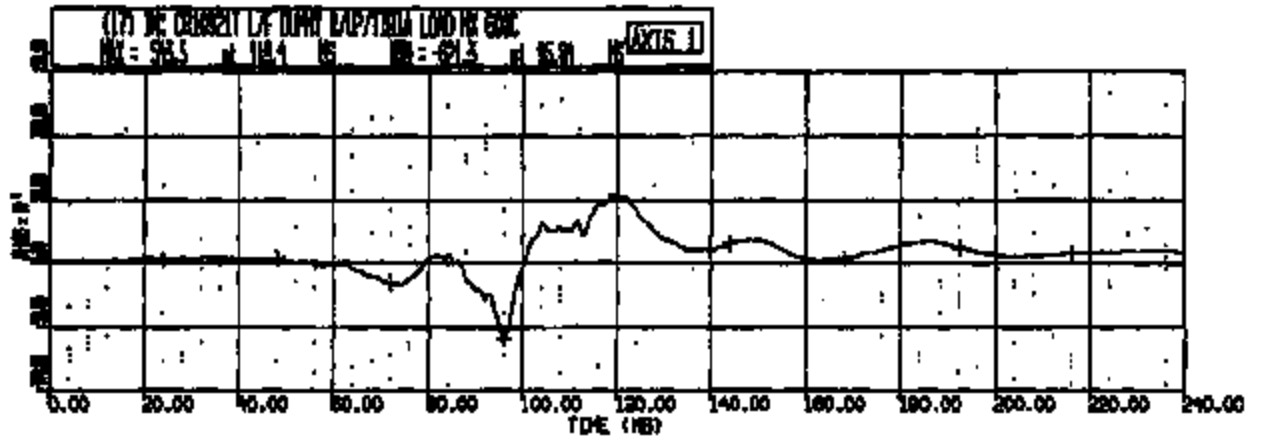
CRIS 0010921



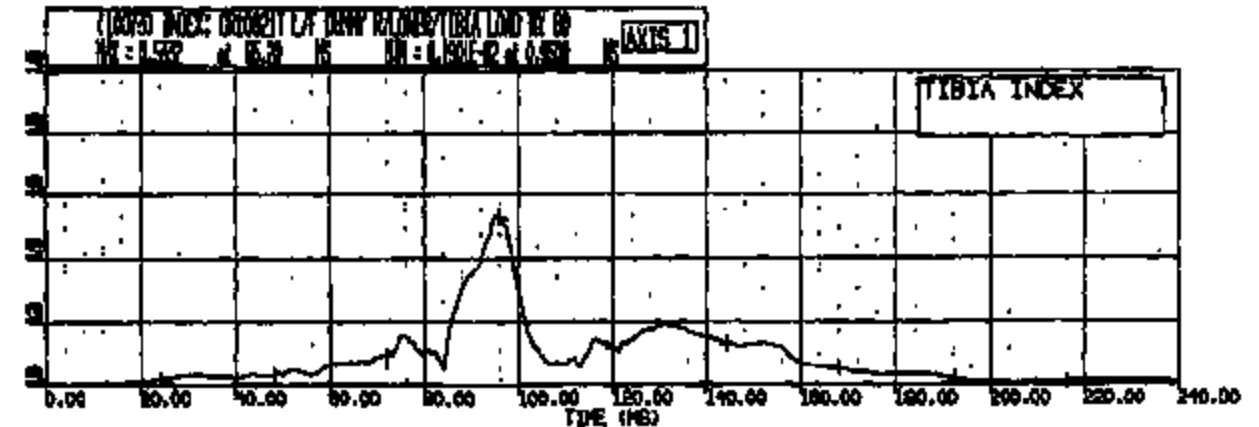
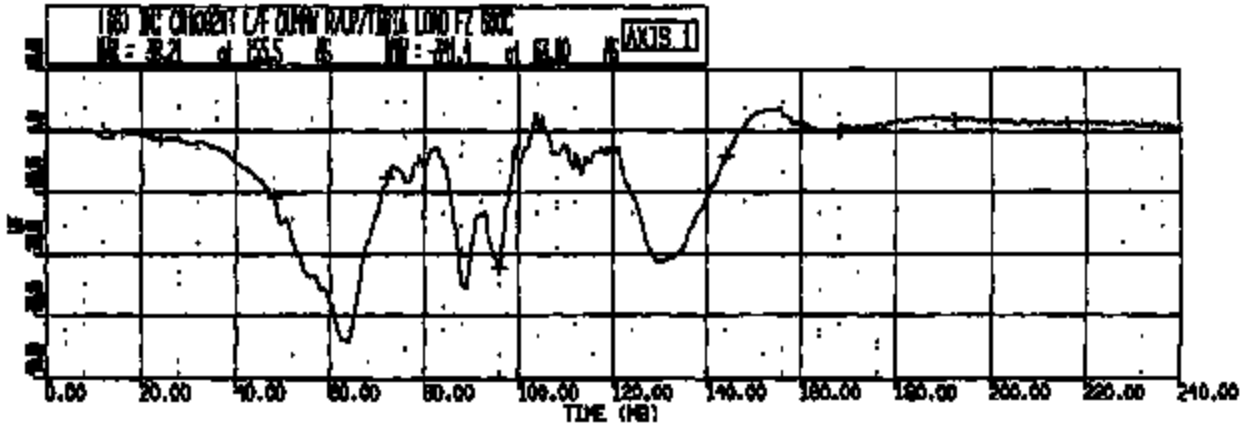
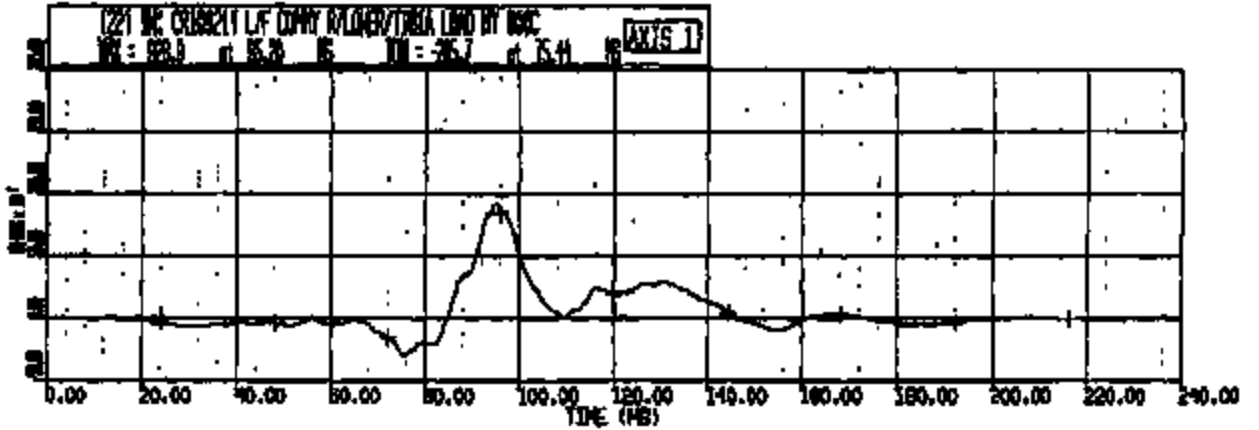
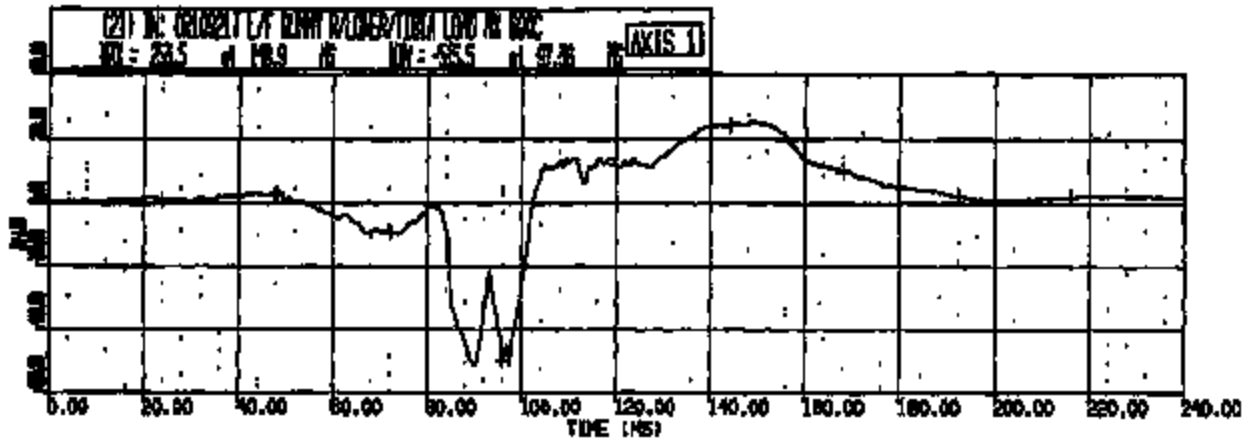
TIBIA INDEX

TIBIA INDEX





TIBIA INDEX



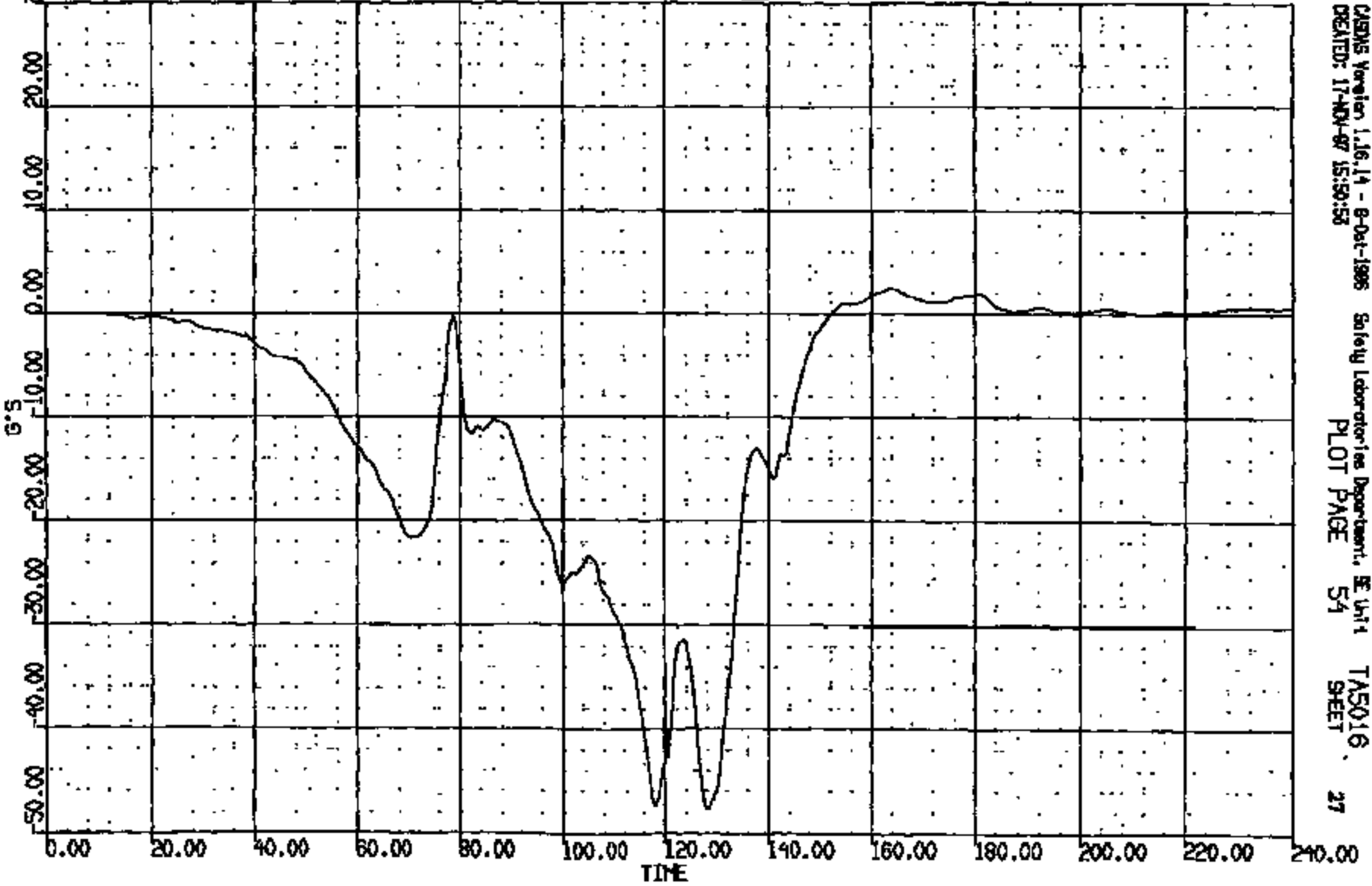
TIBIA INDEX

DR R: 10921 TO: TASS16 DATE: 071117 14:41:53  
D-188

(7) CR10921T LAF DUMMY CHEST LONG 180C

MAX = 2.485 at 163.7 MS MIN = -47.76 at 128.1 MS

AXIS 1



GENS Version 1.16.14 - 8-Oct-1996  
CREATED: 17-NOV-97 15:50:53

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SHEET 27

CRTS 0010921

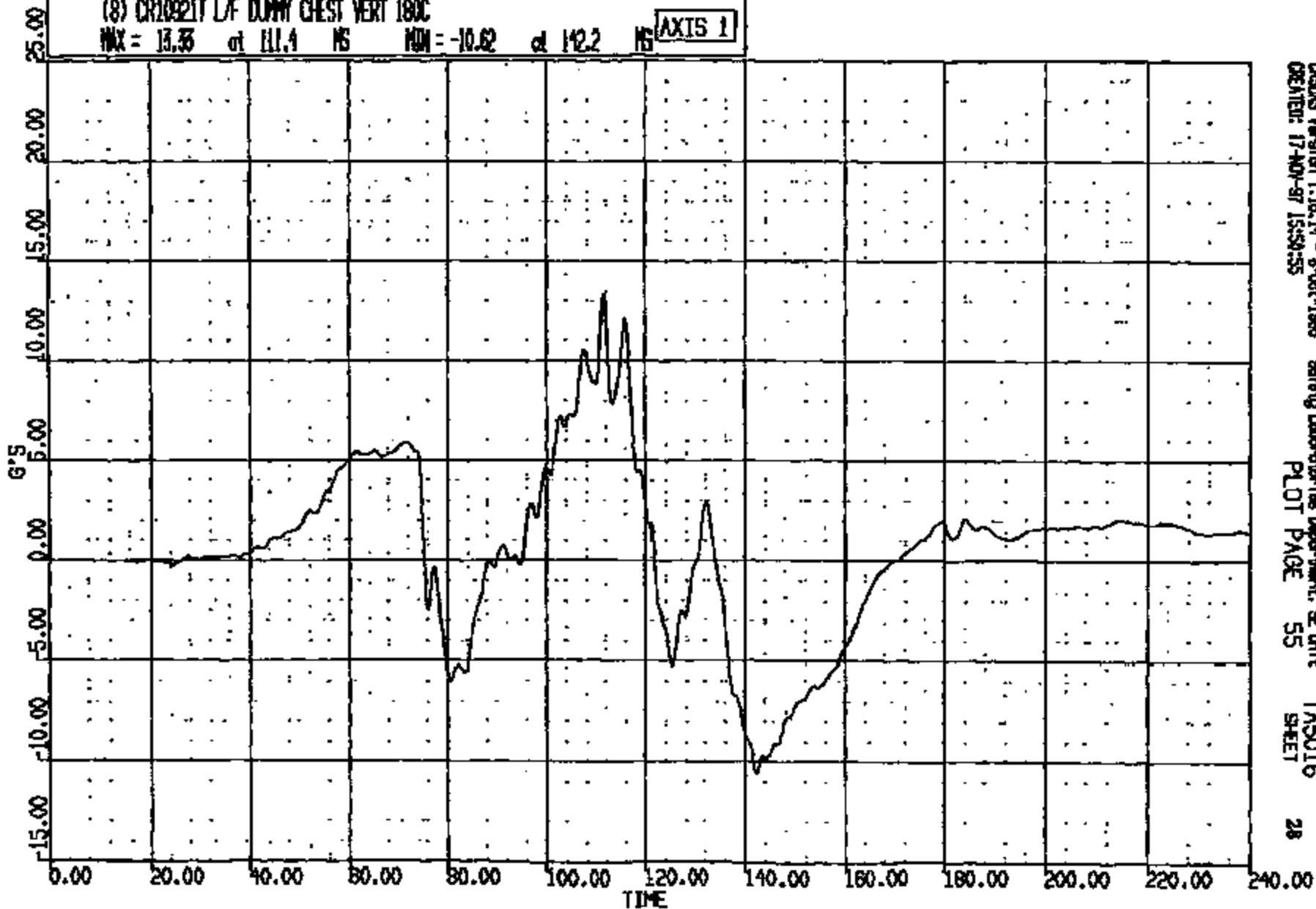
CR #: 10921 TO: TASO16 DATE: 871117 14:41:53

D-188

(8) CR10921 L/F DUMMY CHEST VERT 180C

MAX = 13.35 at 111.4 MS MIN = -10.62 at 142.2 MS

AXIS 1



CRS016 Version 1.18.14 - 8-Oct-1988  
CREATED: 17-NOV-87 15:50:55

Safety Laboratories Department, E Unit  
PLOT PAGE 55

TASO16  
SHEET

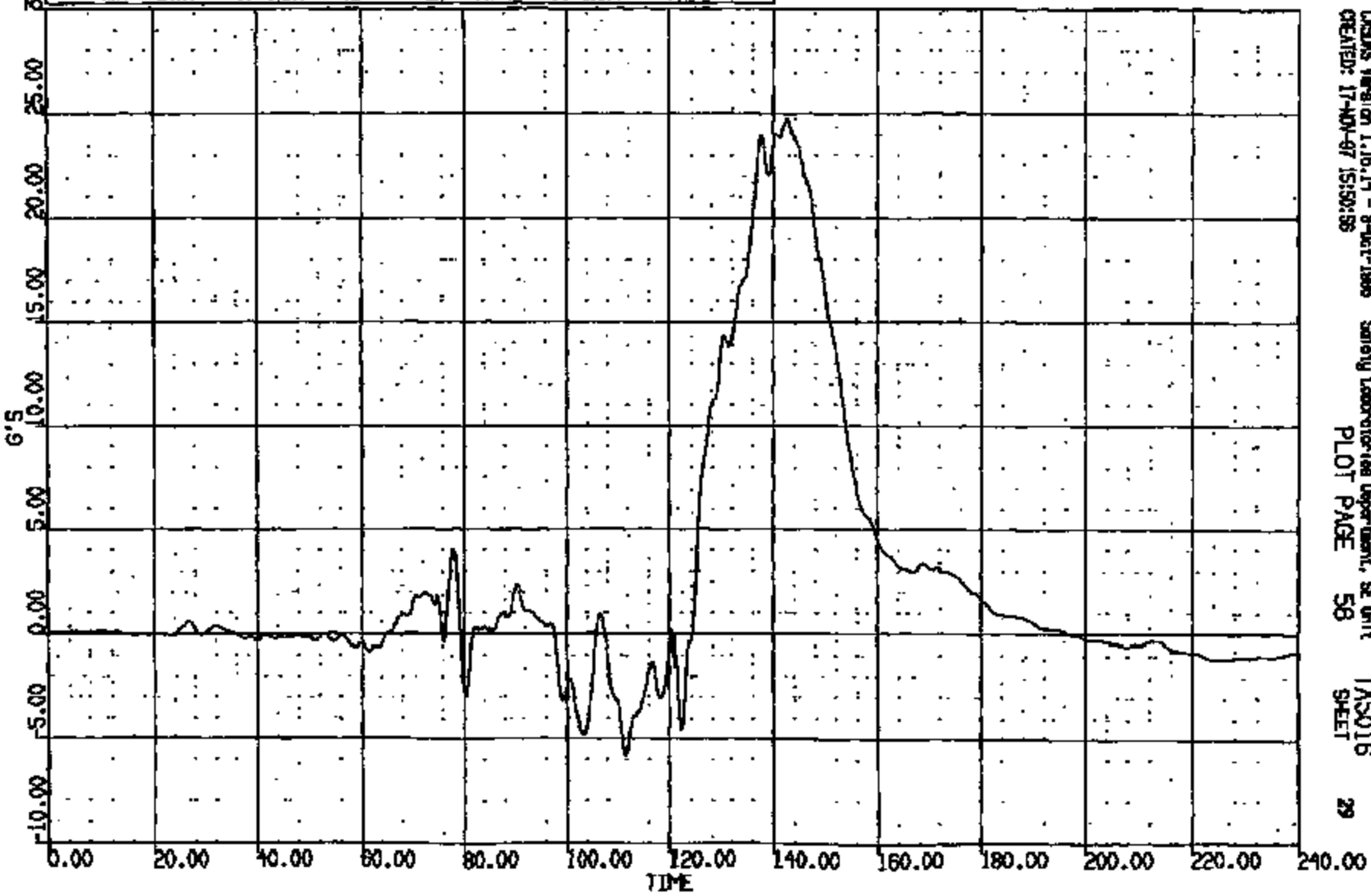
28

CRIS 0010921

OP R: 10921 TO: TAS016 DATE: 971117 14:41:55  
0-108

(9) CR10921T LAF DUMMY CHEST LAT 180C  
MAX = 24.77 at 142.6 MS MIN = -5.792 at 111.4 MS

AXIS 1



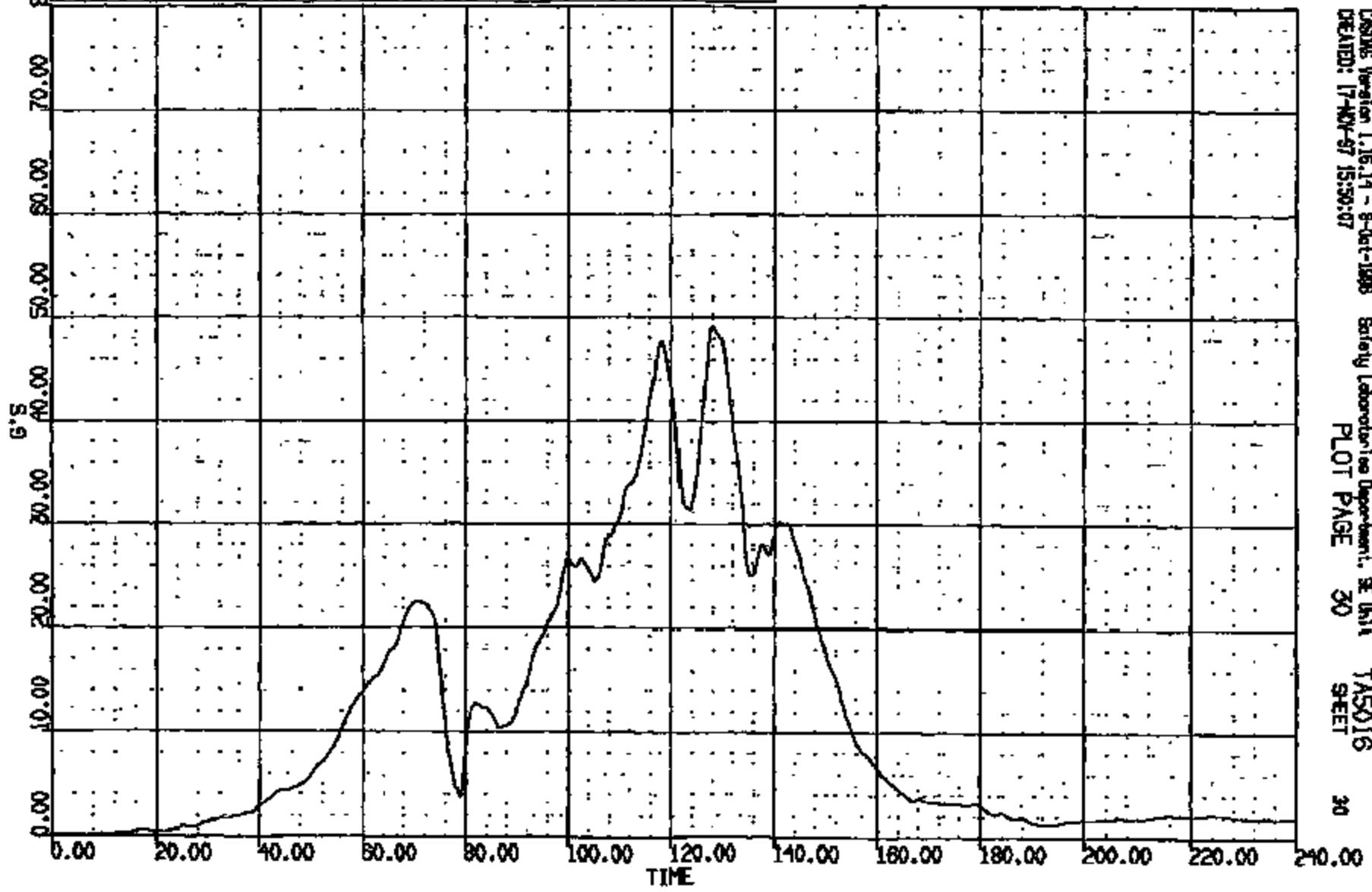
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CREATED: 17-MAY-97 15:50:58 PLOT PAGE 58 TAS016 SHEET 29

CRIS 0010921

00 R: 10821 TD: TAS016 DATE: 871117 14:41:58  
00-198  
CUMDUR = 47.616 Duration time = 2.9880

(10005) CR10921T L/F DUMMY CHEST RES 180C  
MAX = 49.12 at 128.1 NS MIN = 0.904E-01 at 6.180 NS

AXIS 1

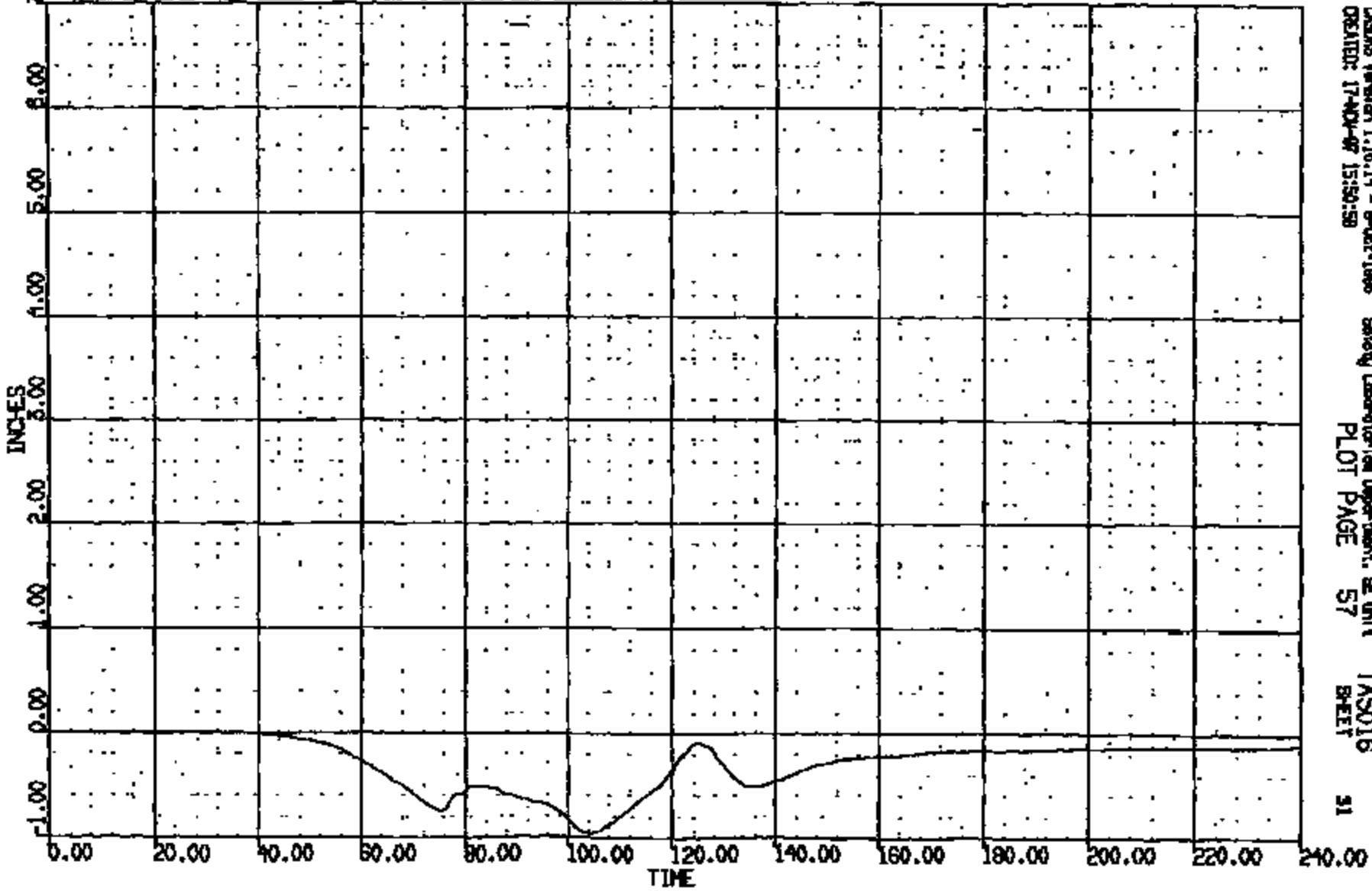


CRS016 Version 1.16.14 - 8-Oct-1988 Safety Laboratories Department, SE Unit TAS016  
CREATED: 17-NOV-87 15:50:07 PLOT PAGE 30 SHEET 30

CRIS 0010921

CR R: 10921 TO: TASS16 DATE: 971117 14:41:53  
D-188

(16) CR10321T L/F CUPPY CHEST DEFLECTION 180C  
MAX = 0.3179E-01 at 6.720 MS MIN = -.9621 at 104.5 MS **AXIS 1**

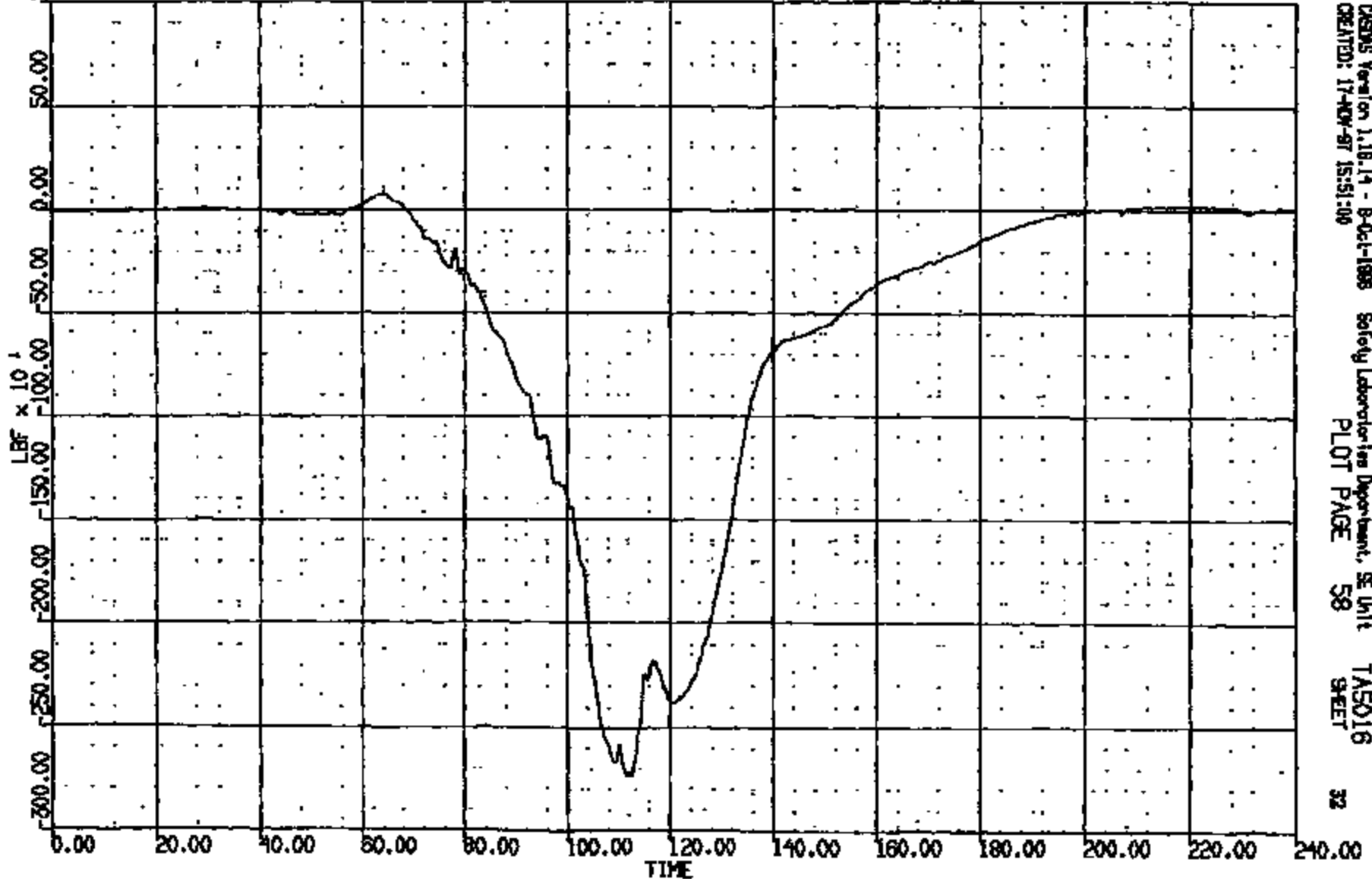


CASIMS Version 1.16.14 - 8-Oct-1996 Safety Laboratory Department, GE Unit 1 TASS16  
CREATED: 17-NOV-97 15:50:58 PLOT PAGE 57 SHEET 51

CRTS 0010921

CR R: 10921 TO: TAS016 DATE: 971117 14:41:55  
D-198

(11) CR10921T L/F DUMMY L/FENR LOAD FZ 600C  
MAX = 75.95 at 64.16 MS MIN = -273.1 at 112.6 MS **AXIS 1**



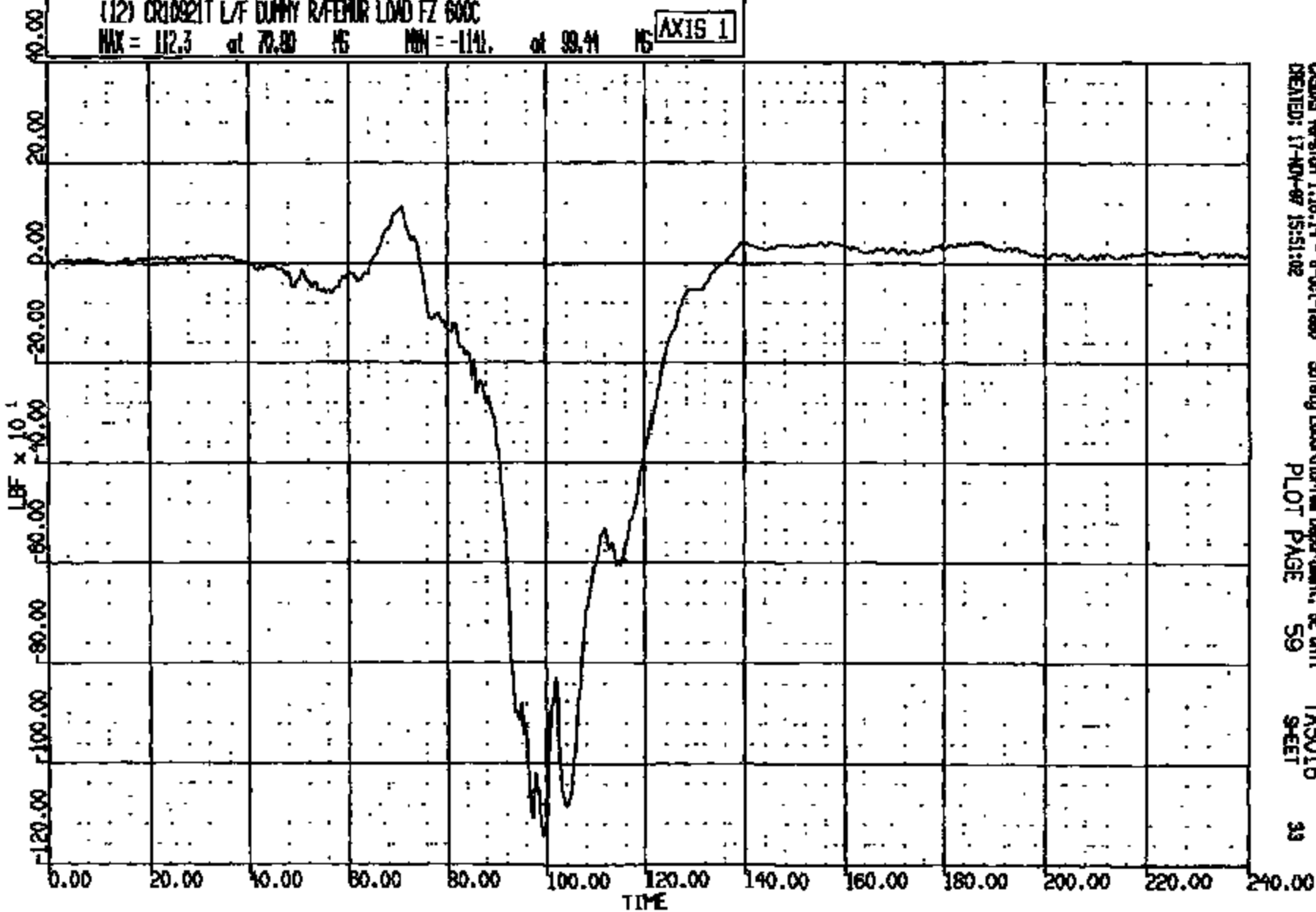
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CREATED: 17-NOV-97 15:51:00  
PLOT PAGE 58 SHEET 32

CRIS 0010921



CR R: 10921 TO: T45016 DATE: 971117 14:41:53  
D-186

(12) CR10921T L/F DUMMY R/FEMUR LOAD FZ 600C  
MAX = 112.3 at 70.80 MS MIN = -114.1 at 99.41 MS **AXIS 1**



CADDS Version 1.16.14 - 8-Oct-1995  
CREATED: 17-NOV-97 15:51:02

Safety Laboratory Department, SE Unit  
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SHEET

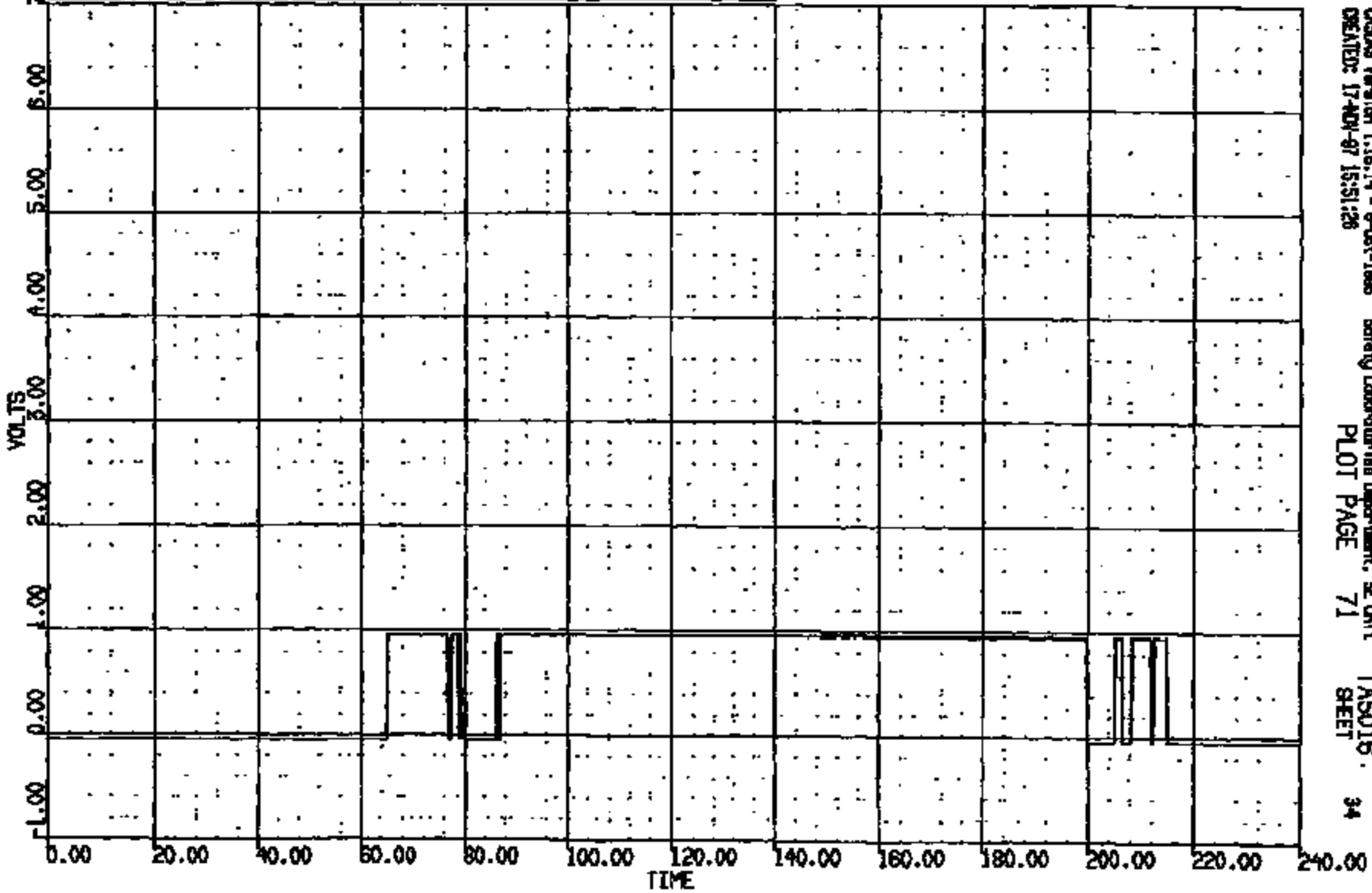
39

CRTS 0010921

CR R: 10921 TO: T45016 DATE: 971117 14:41:53  
D-196

(28) CRIO921T LAF DUMNY L/KNEE SH 4000C  
MAX = 0.9570 at 65.30 MS MIN = -.435E-04 at -.762E-05 MS

AXIS 1



CRS008 Version 1.16.14 - 8-Oct-1998  
CREATED: 17-401-97 15:51:26

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PLOT PAGE 71

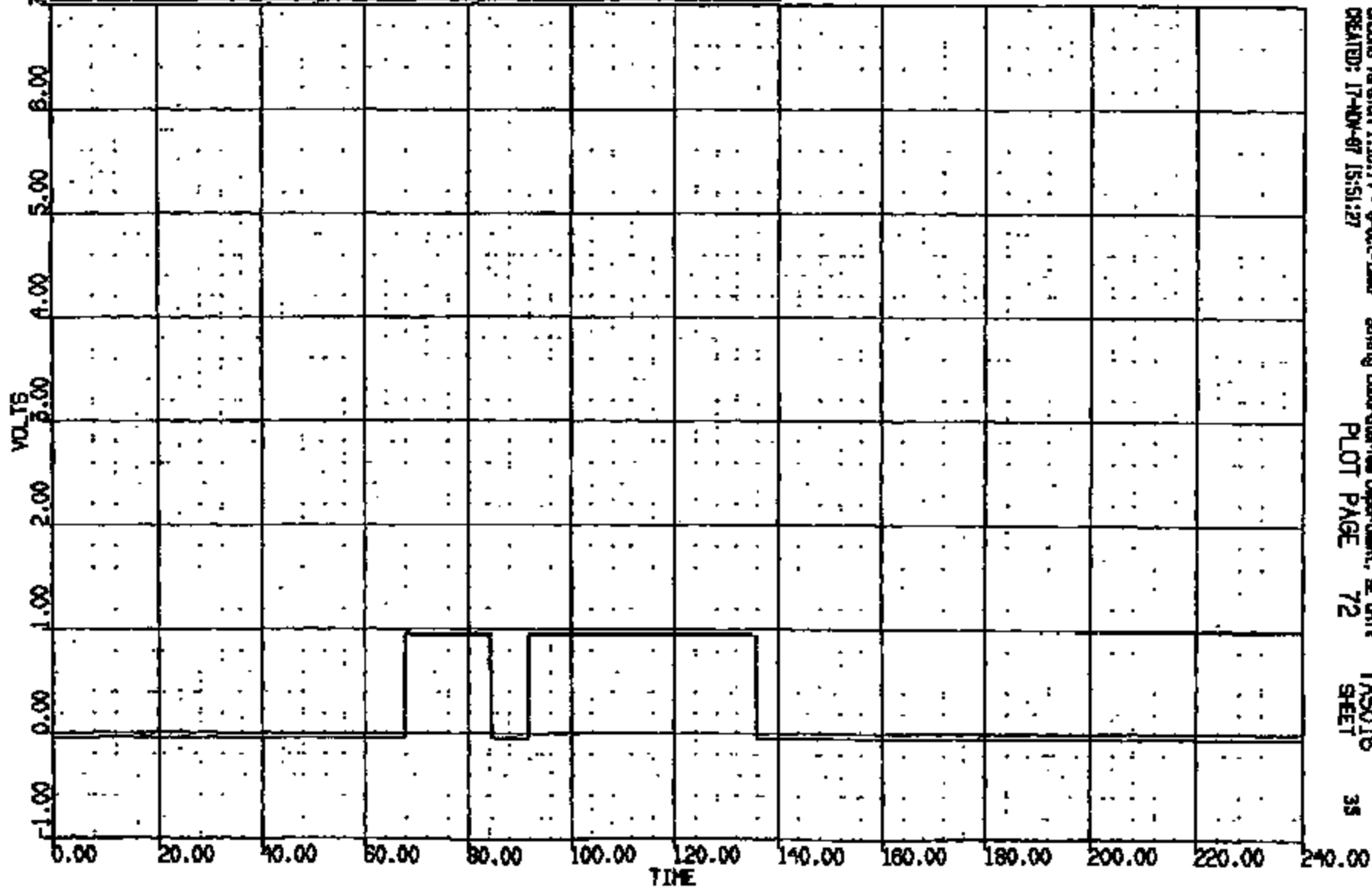
T45016 SHEET 34

CRITS 0010921

CR R: 10921 TO: TAB016 DATE: 971117 14:41:55  
0-186

(29) CROSSFIT L/F DUMMY RANGE SW 400C  
MAX = 0.9570 at 68.00 MS MIN = -.435E-01 at -.762E-05 MS

AXIS 1

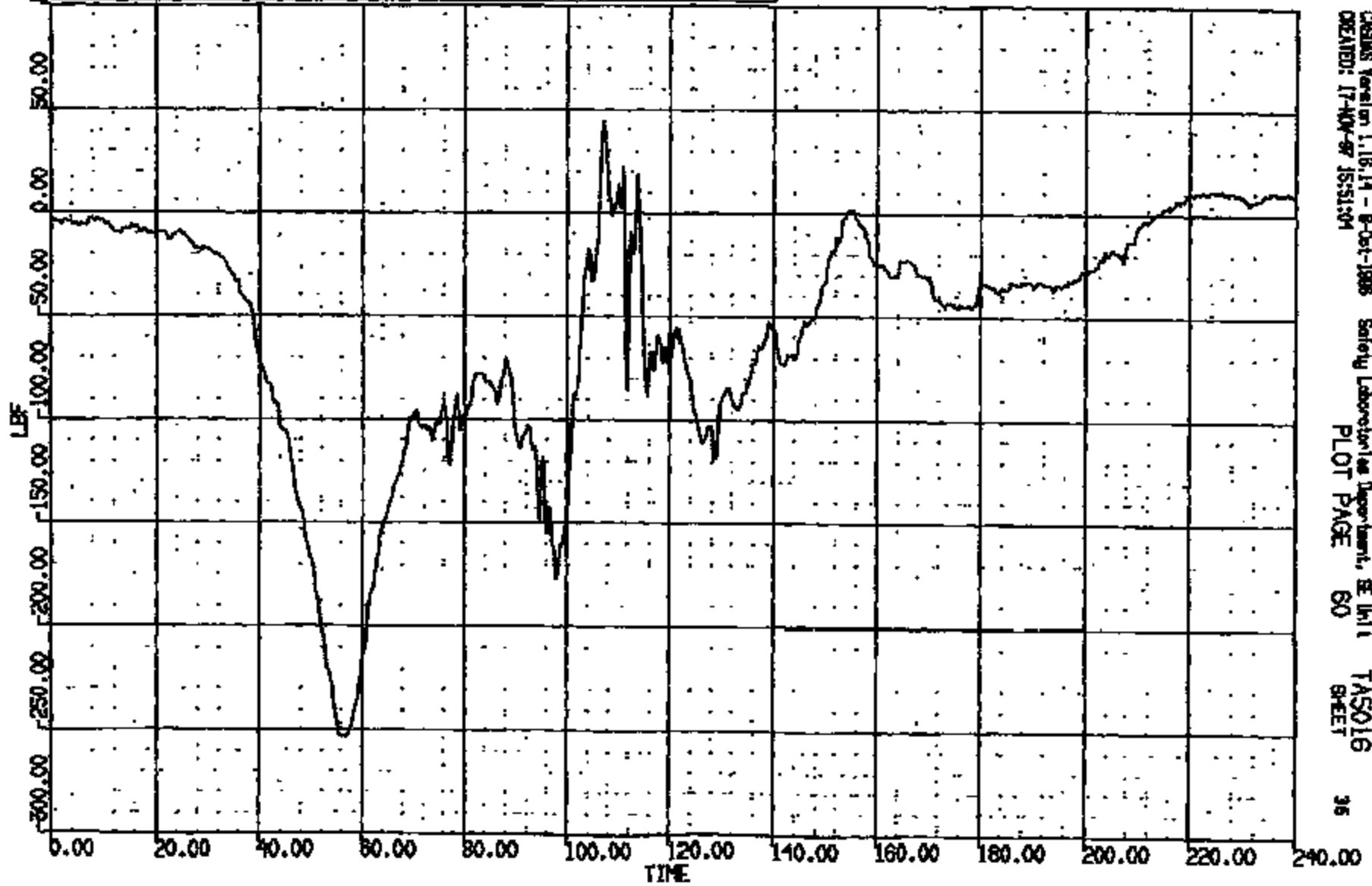


CRS Version 1.15.14 - 9-02-1998 Safety Laboratory Department, BE Unit  
CREATED: 17-NOV-97 15:51:27 PLOT PAGE 72 TASS016 SHEET 35

CRIS 0010921

CR: R: 10921 TO: TAB016 DATE: 971117 14:41:53  
D: 1998

(13) CR10921 L/F DUMMY L/AP/TIBIA LOAD FZ 600C  
MAX = 41.27 at 107.2 NS MIN = -233.6 at 56.95 NS **AXIS 1**

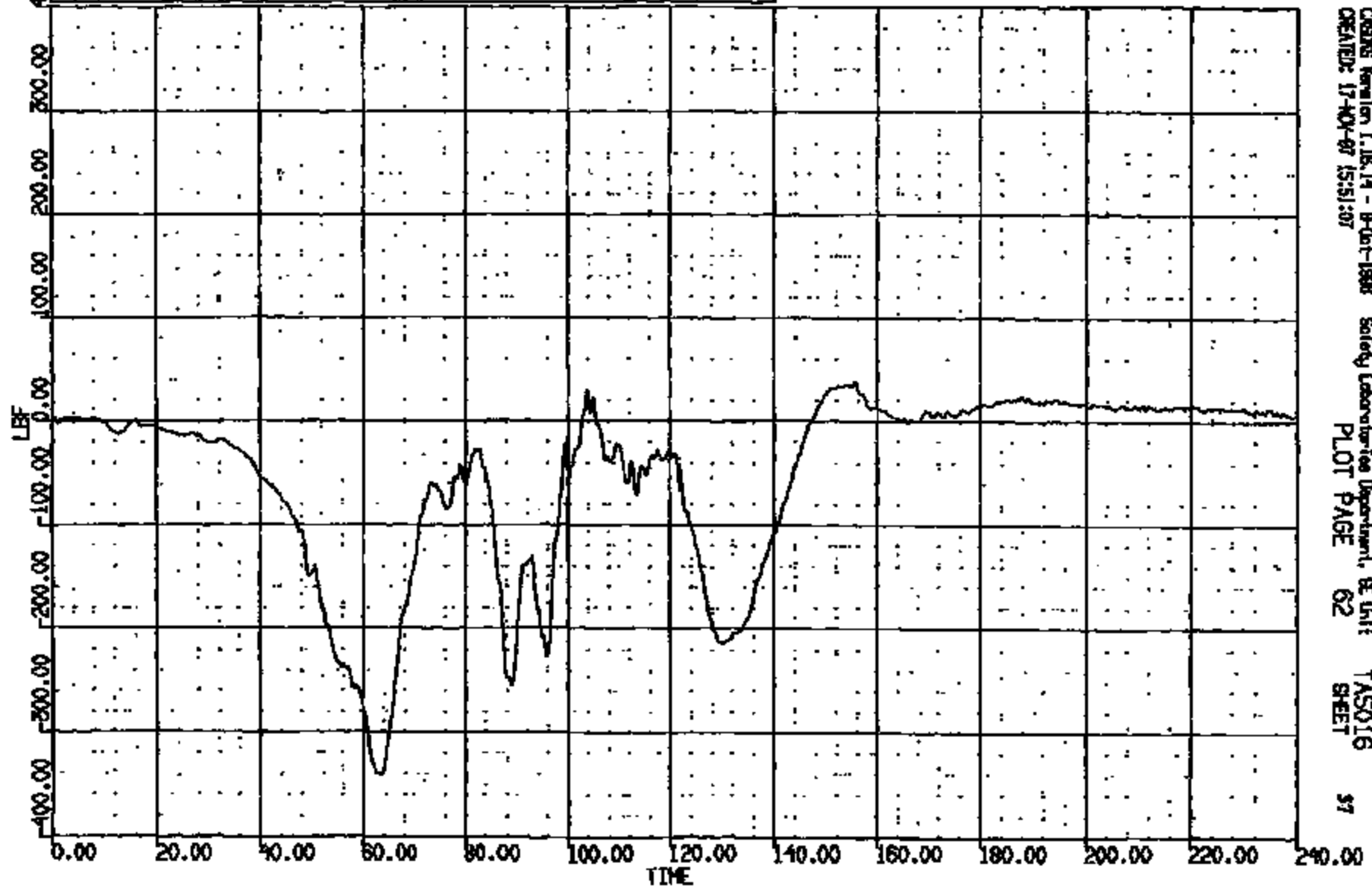


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CREATED: 17-AUG-97 15:51:34 PLOT PAGE 60 SHEET 36

CRIS 0010921

CR R: 10221 TO: TASO16 DATE: 871117 14:41:55  
D-188

(16) CRIOBILT L/F DUMMY R/OP/TIBIA LOAD FZ 600C  
MAX = 38.21 at 135.5 NS MIN = -311.4 at 63.60 NS **AXIS 1**

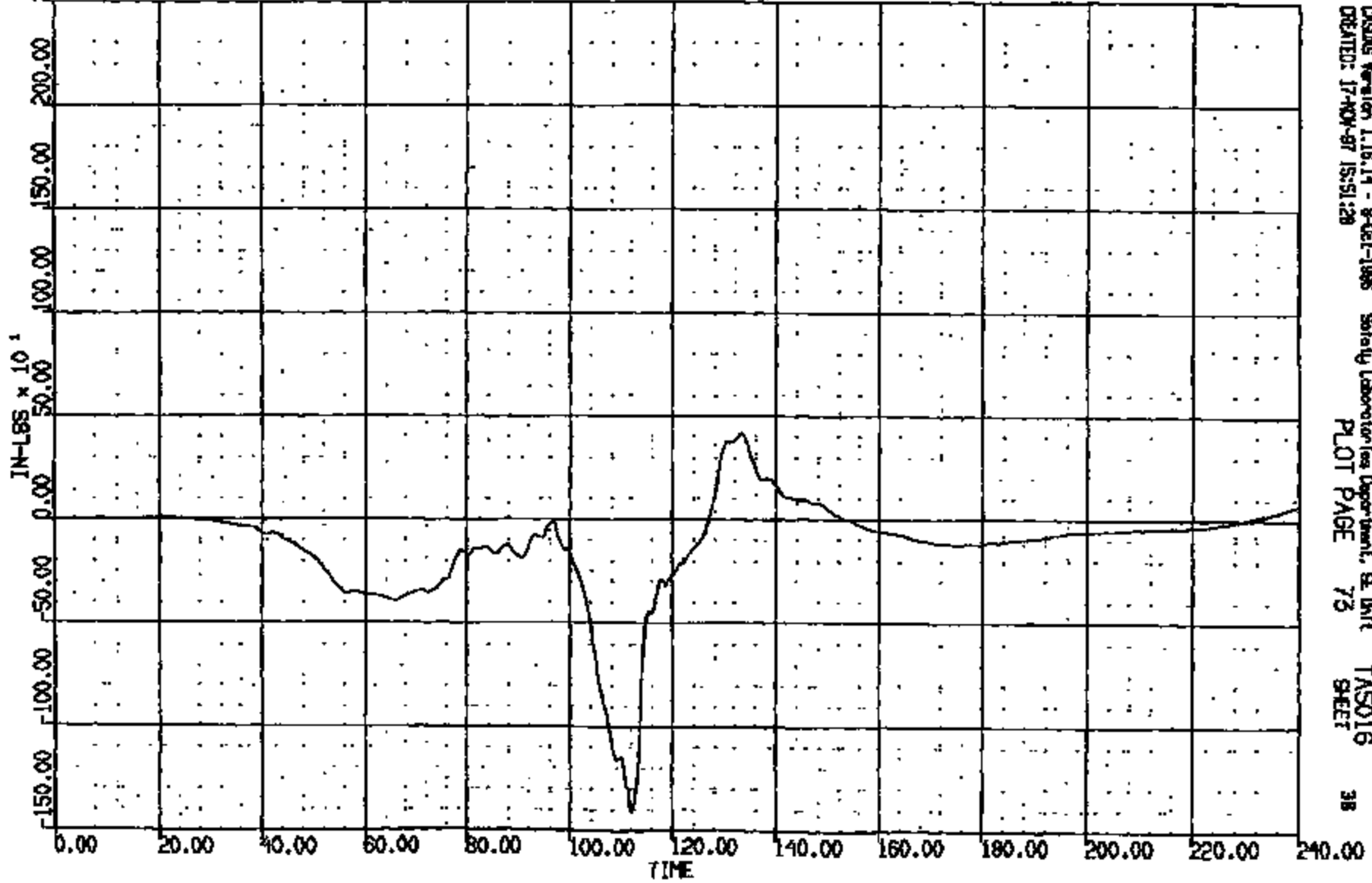


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CREATED: 17-AUG-87 15:51:07 PLOT PAGE 62 SHEET 57

CRS 0010921

CR R: 10921 TO: T45016 DATE: 971117 14:41:53  
D-186

(14) ORIBBIT LF DUMP LAP/TIBIA LOAD NR 600C  
MAX = 417.0 of 133.3 MS MIN = -144. of 112.0 MS **AXIS 1**



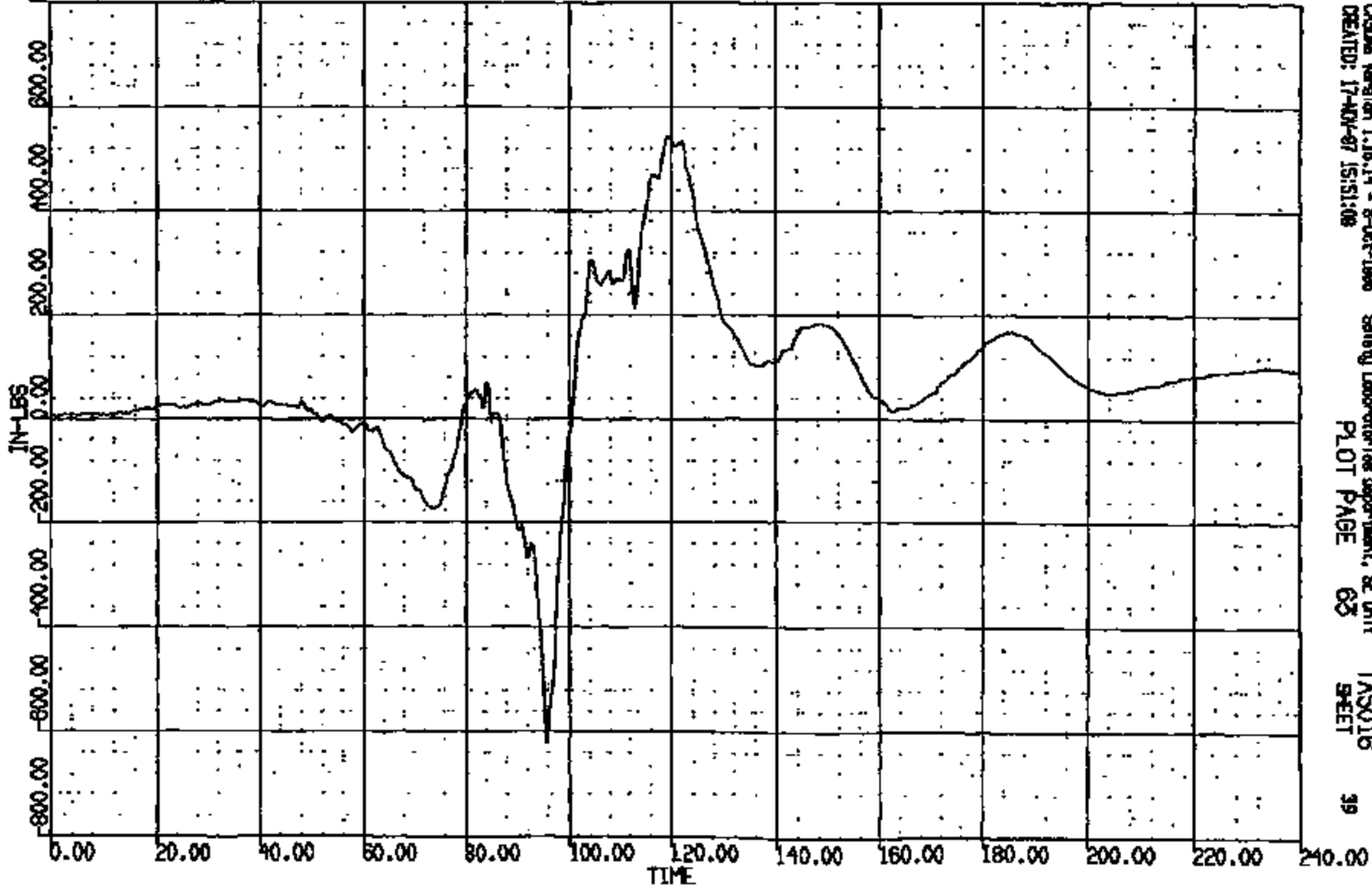
CRISTAL Version 1.18.14 - 8-Oct-1986 Safety Laboratories Department, BE Unit T45016 38  
CREATED: 17-NOV-97 15:51:28 PLOT PAGE 73 SHEET

CRTS 0010921

CR: 10921 TO: TASC16 DATE: 971117 14:41:53  
R: 01-160

(17) CR10921T L/F DUMMY RAMP/TIBIA LOAD PK 600C  
MAX = 583.5 at 119.4 MS MIN = -621.3 at 95.81 MS

AXIS 1



CRS005 Version 1.16.14 - 8-Oct-1998  
CREATED: 17-NOV-97 15:51:08

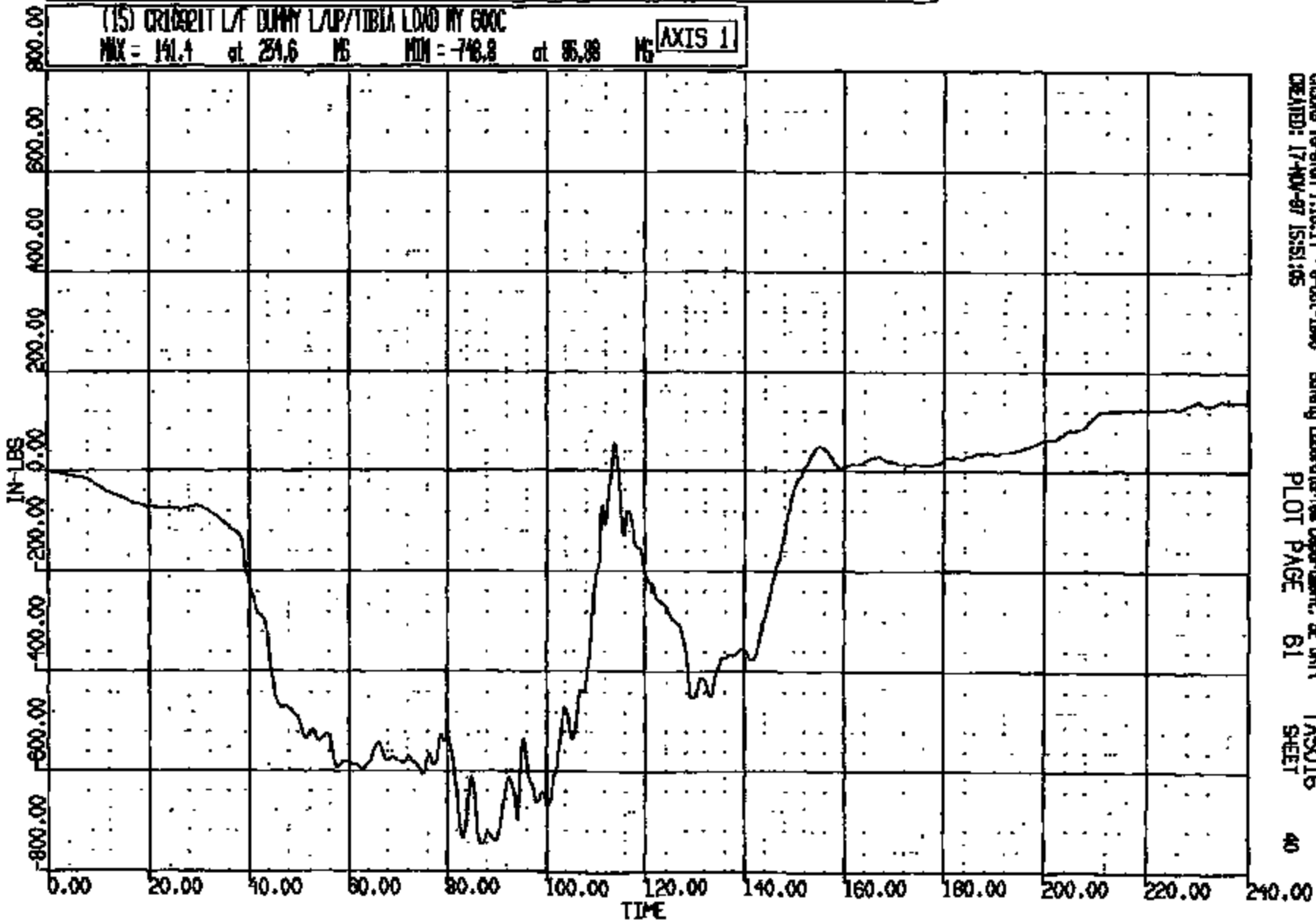
Safety Laboratories Department, SE Unit  
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CR #: 10921 TO: TASO16 DATE: 071117 17:41:53  
D-188

(15) CRIBBIT L/ DUMMY L/UP/TIBIA LOAD BY 600C  
MAX = 141.1 at 24.6 MS MIN = -748.8 at 85.88 MS

AXIS 1



CASAS Version 1.16.14 - 8-Oct-1998  
CREATED: 17-MAY-97 15:51:05

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TASO16  
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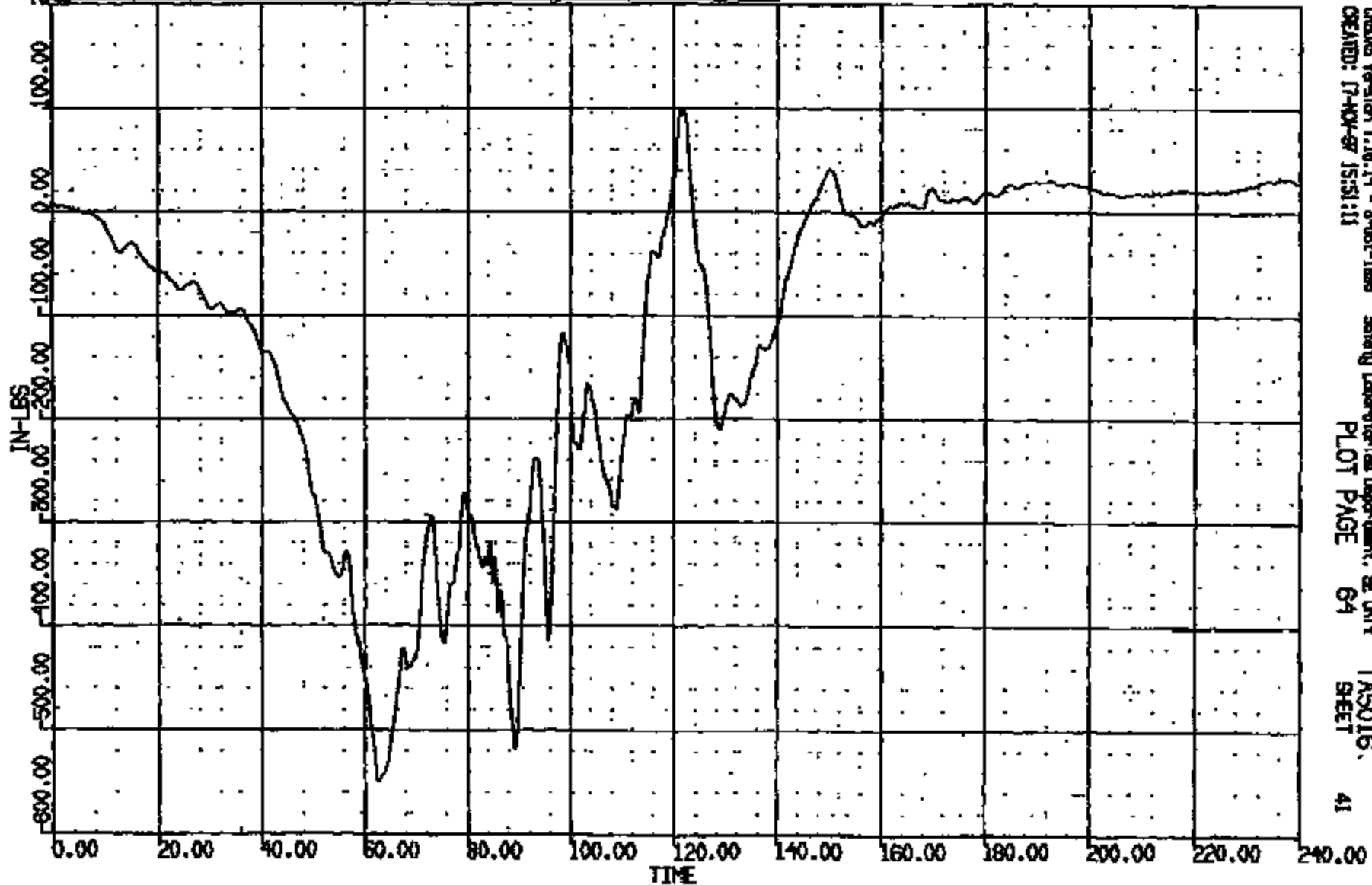
CRIS 0010921



CR R: 10921 TO: TA5016 DATE: 871117 17:41:53  
D: 188

(18) CR10921T L/F DUNNY RAP/TIBIA LOND NY 600C  
MAX = 100.2 at 121.4 NS MIN = -59.3 at 62.00 NS

AXIS 1



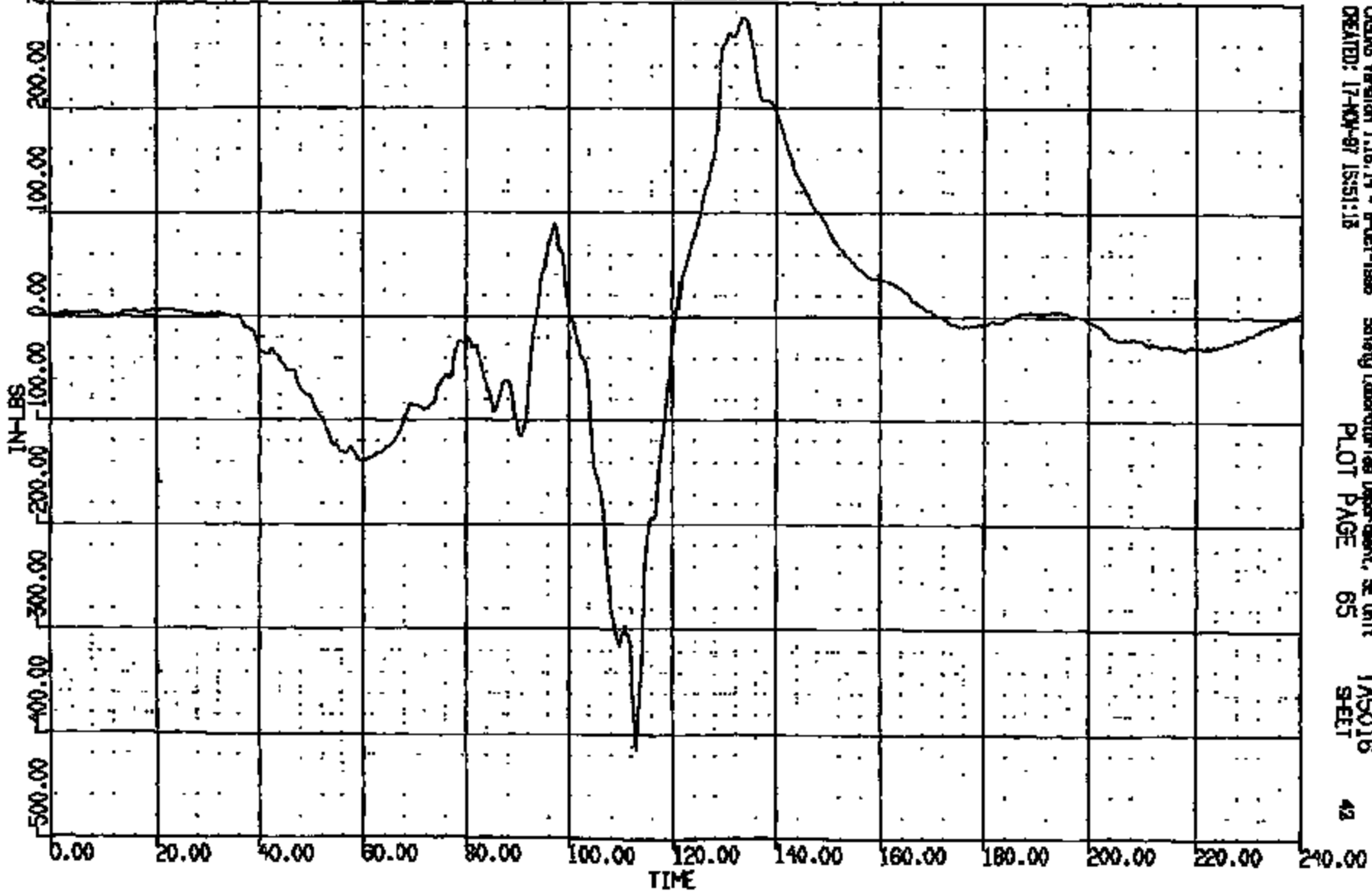
CRS016 Version 1.16.14 - 8-Oct-1988 Safety Laboratory Department, BE Unit TA5016, 41  
CREATED: 17-NOV-87 15:51:11 PLOT PAGE 64 SHEET

CRIS 0010921

DR R: 10921 TO: TASCIS DATE: 871117 14:41:55  
D-188

(19) CR10921T LAF DUMMY L/LOWER/TIBIA LOAD MX 600C  
MAX = 285.8 at 133.3 MS MIN = -414.0 at 112.9 MS

AXIS 1



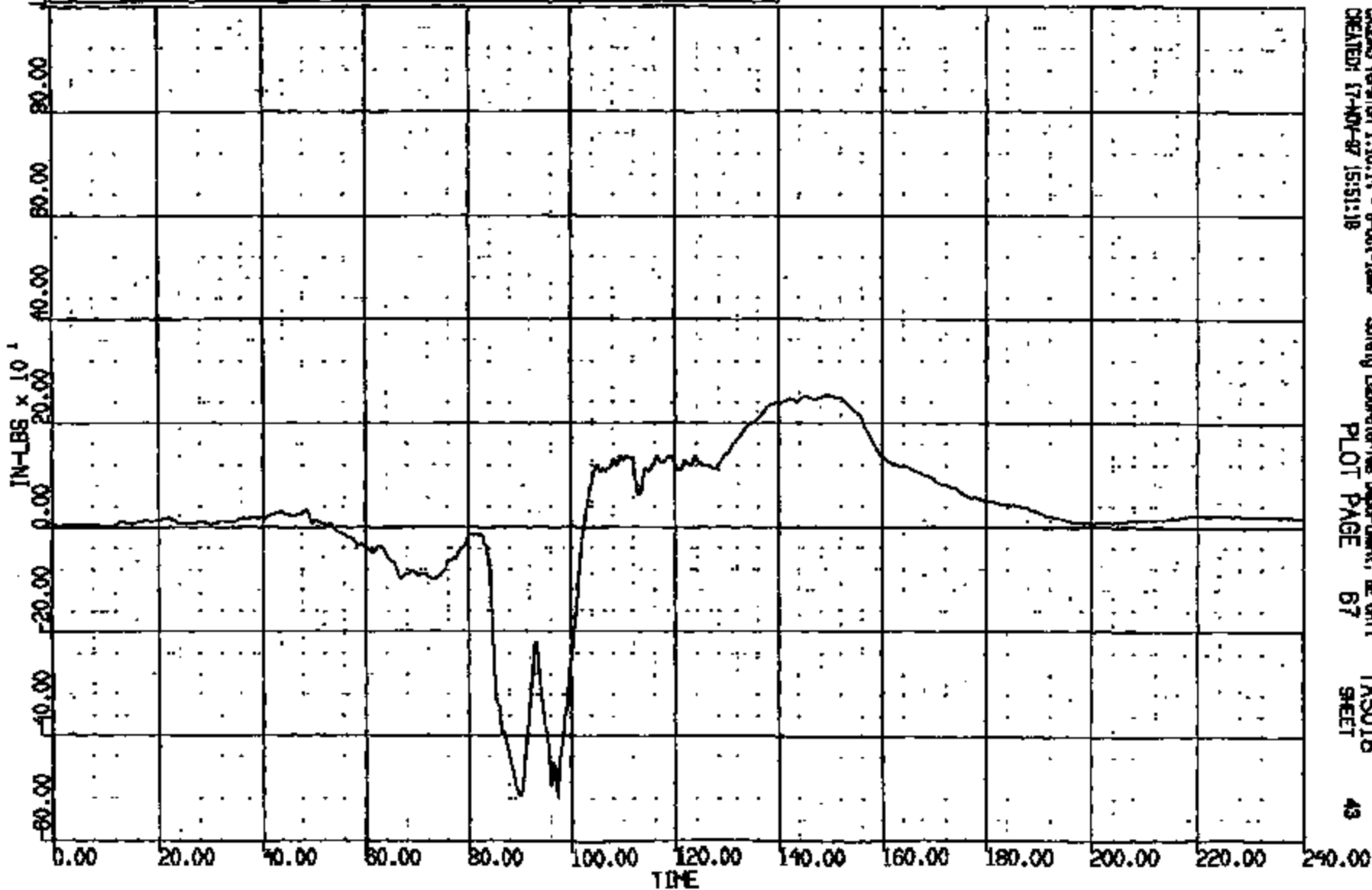
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CREATED: 17-MAY-87 13:51:18  
PLOT PAGE 85  
TASCIS  
SHEET 42

CRIS 0010921

CR R: 10921 TD: TAS016 DATE: 971117 14:41:53  
0-180

(21) CR10921T L/F DUMMY R/LOWER/TIBIA LOAD NR 600C  
MAX = 236.5 at 140.9 MS MIN = -515.5 at 97.36 MS

AXIS 1



CRS Version 1.16.14 - 8-04-1999  
CREATED: 17-NOV-97 15:51:18

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SHEET

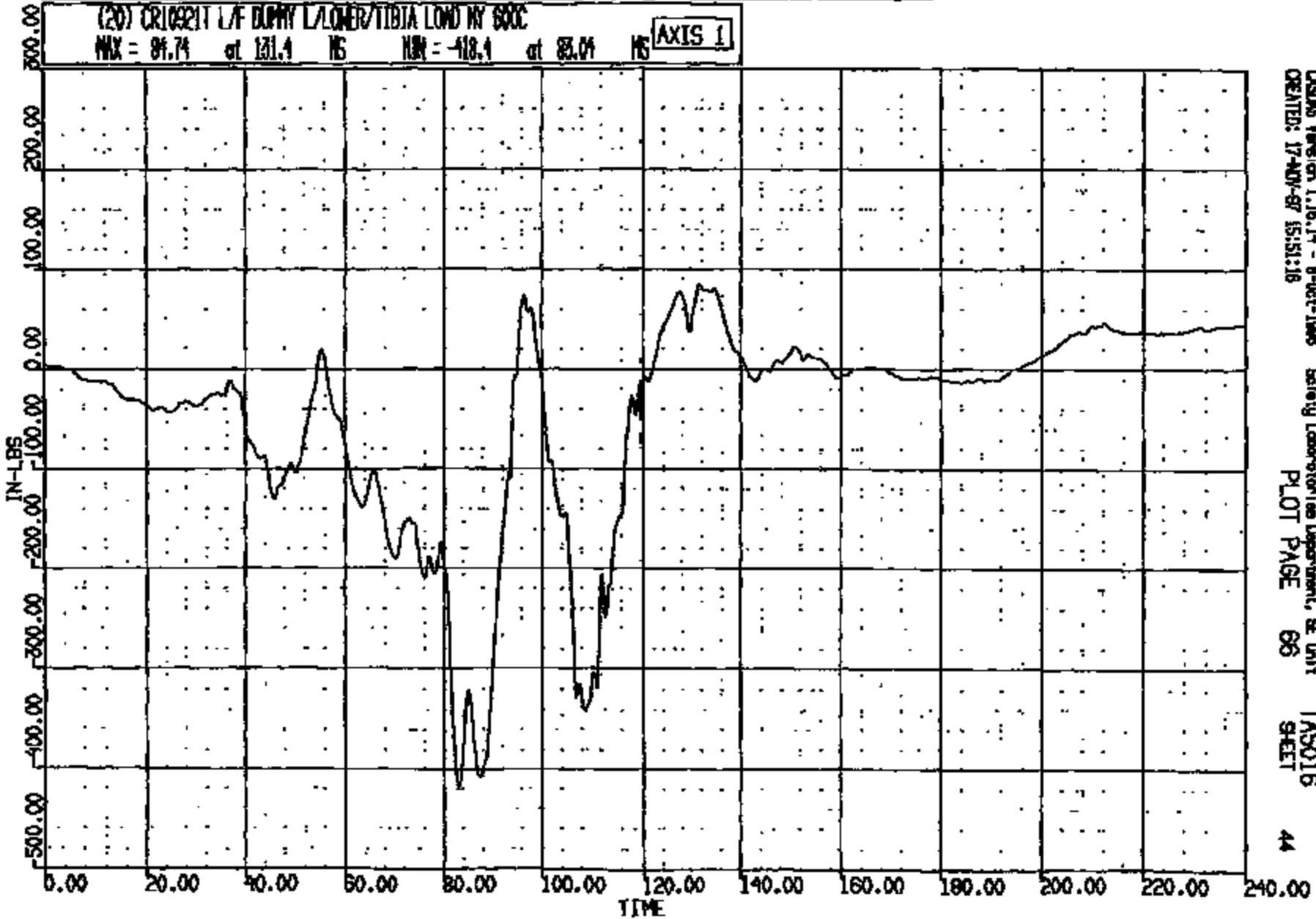
CRIS 0010921

CR R: 10921 TO: TASC16 DATE: 871117 14:41:55  
D-198

(20) CR10921 L/F DUFFY L/LOWER/TIBIA LOAD BY SOCC

MAX = 84.74 at 131.4 MS MIN = -418.4 at 83.04 MS

AXIS 1



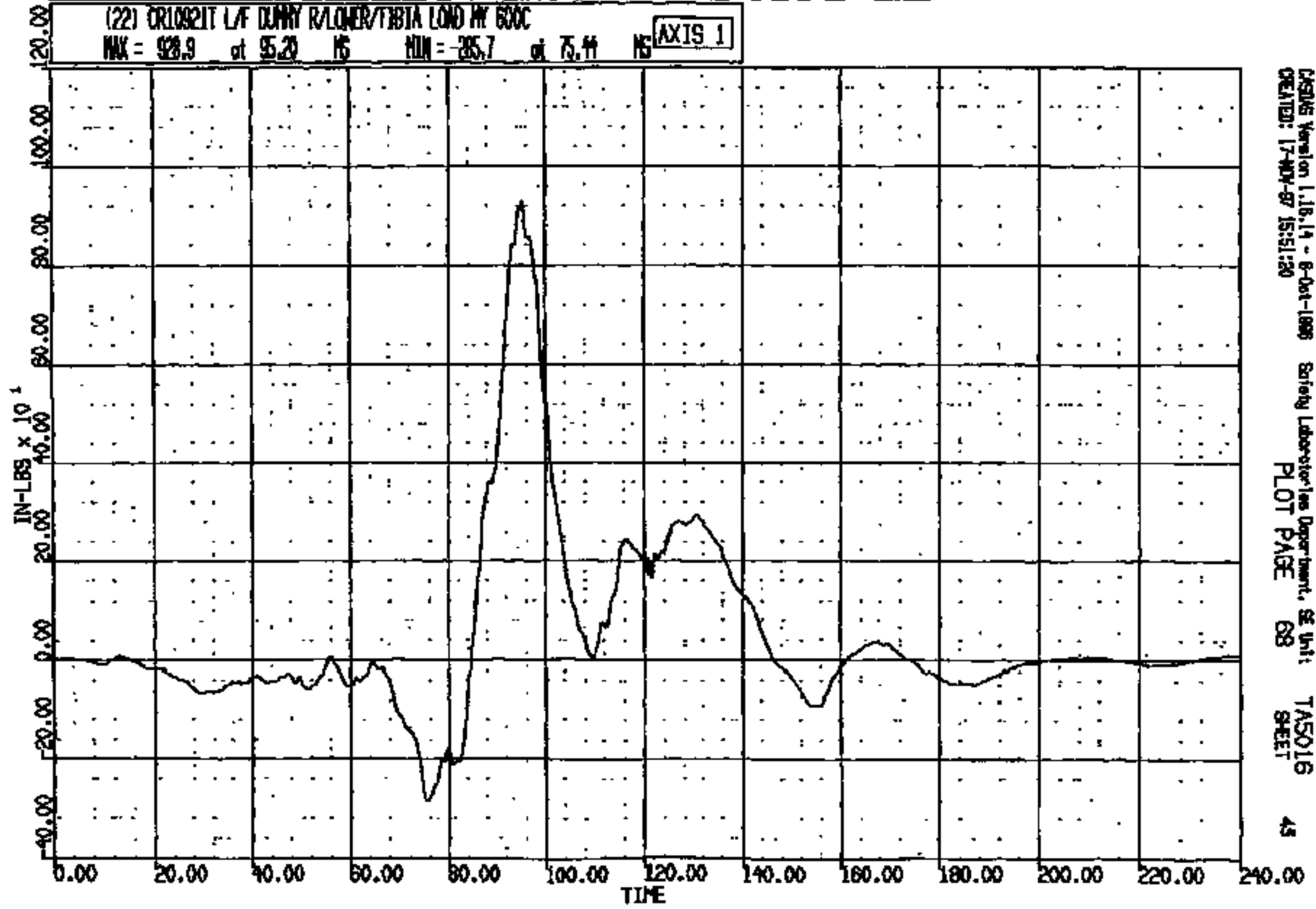
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CREATED: 17-NOV-87 15:51:18 PLOT PAGE 66 SHEET 44

CRIS 0010921

CR R: 10821 TO: T45016 DATE: 971117 14:41:55  
0-188

(22) CR10821T L/F DUNNY R/LOWER/TIBIA LOAD BY 600C  
MAX = 928.9 at 95.20 MS MIN = -285.7 at 75.44 MS

AXIS 1



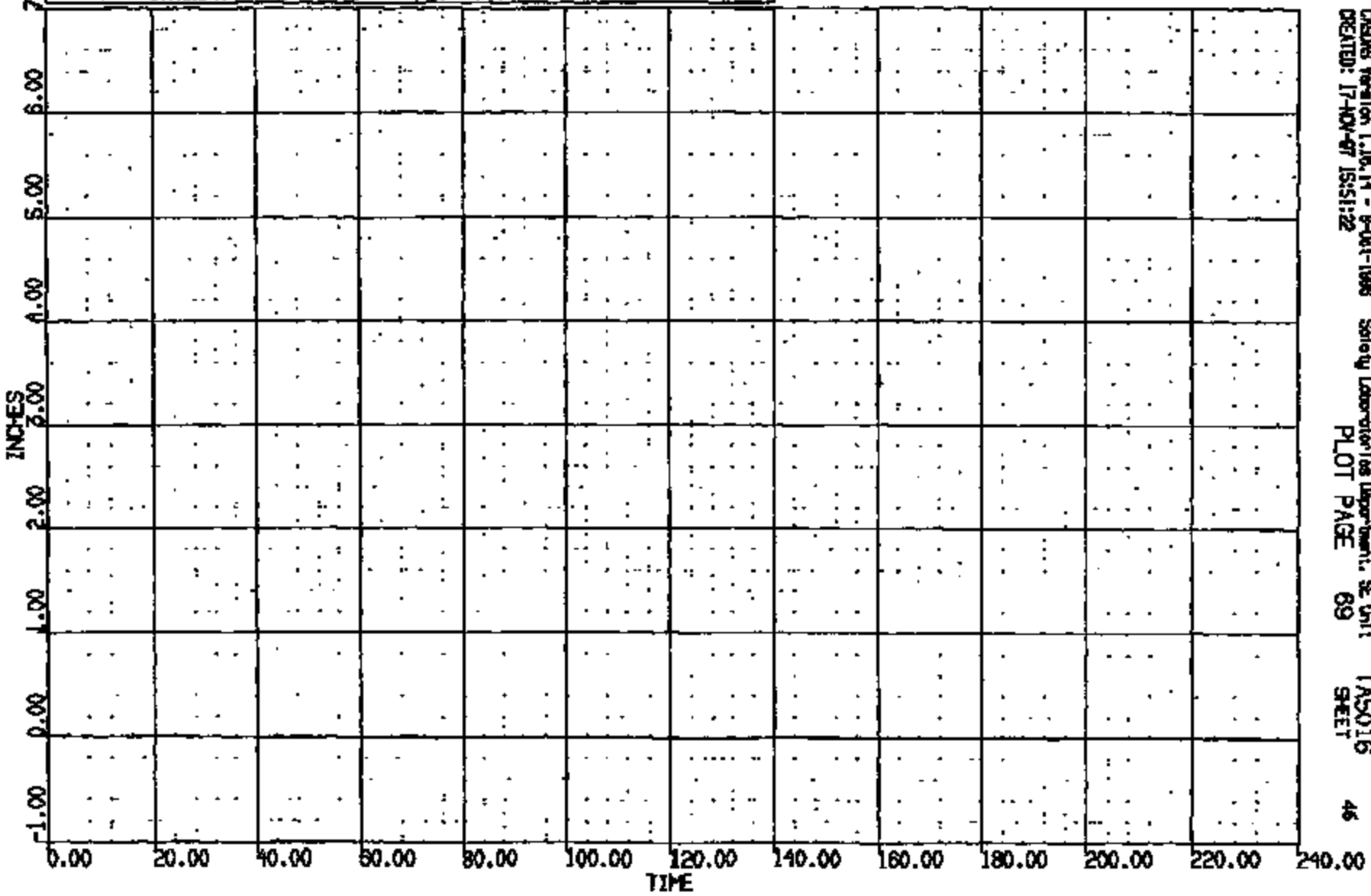
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CREATED: 17-NOV-97 15:51:20 PLOT PAGE 68 SHEET 49

CRIS 0010921

CR R: 10921 TO: TA5016 DATE: 971117 14:41:55  
0-198

(23) CR10921T L/F DUMMY L/TIBIA DISP WRT FEM 180C  
MAX = 0.582E-05 at 12.88 MG MIN = -.836E-02 at 143.3 MG

AXIS 1

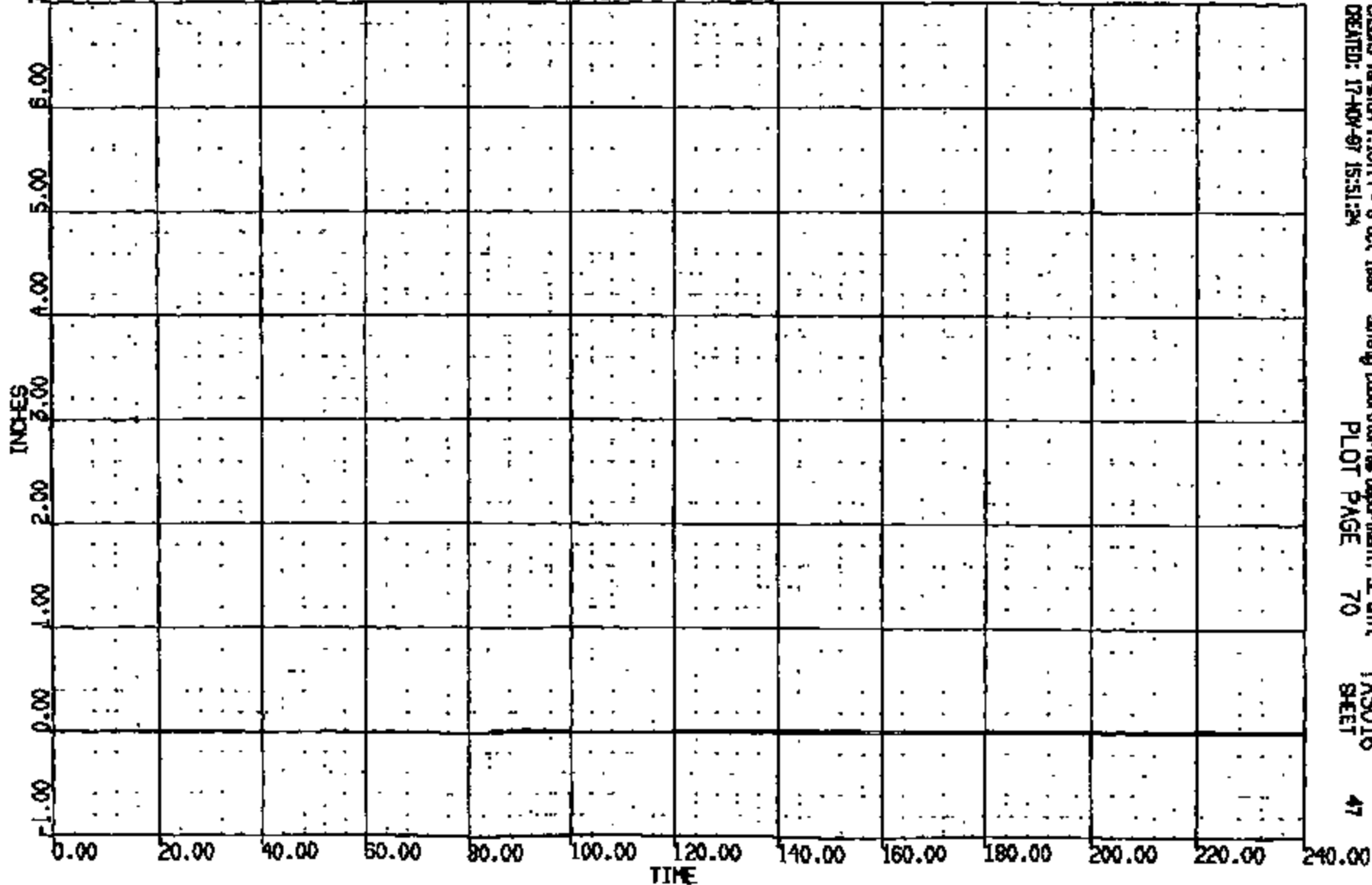


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CREATED: 17-NOV-97 15:51:22 PLOT PAGE 69 SHEET 46

CRIS 0010921

CR R: 10921 TO: TAS016 DATE: 871117 14:41:35  
D-100

(24) CR10921 L/F DUMMY R/TIBIA DISP MRT FEM 180C  
MAX = 0.296E-01 at 85.44 MS MIN = -.4921E-02 at 57.68 MS **AXIS 1**

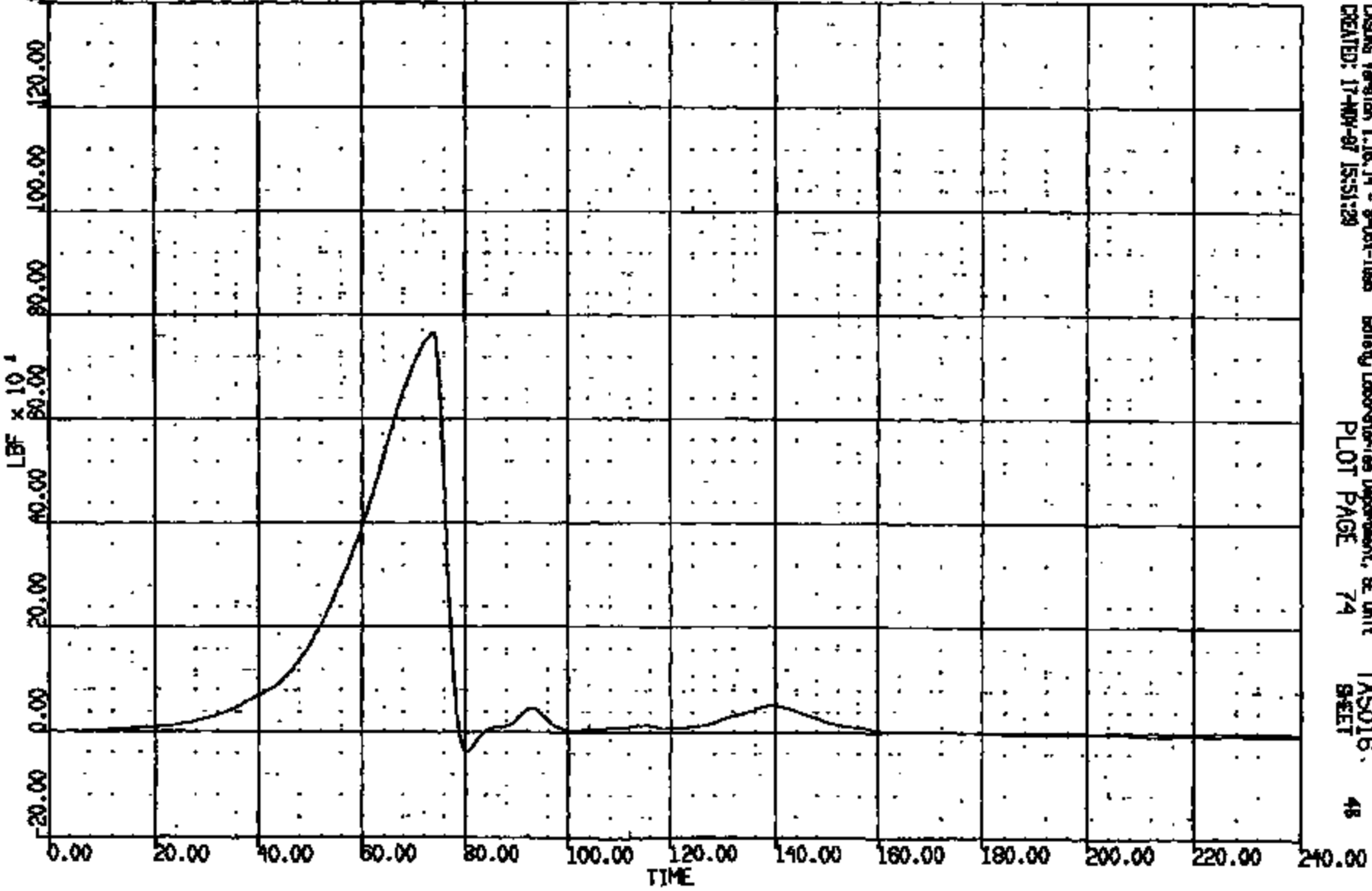


CRSAS Version 1.16.14 - 8-Oct-1988 Safety Laboratories Department, SE Unit TAS016 47  
CREATED: 17-NOV-87 15:51:24 PLOT PAGE 70 SHEET

CRTS 0010921

CR R: 10921 TO: TAS016 DATE: 871117 14:41:53  
D-188

(25) CR10921T L/F LAP BELT @ ANCHOR LOAD 60C  
MAX = 765.6 at 73.92 MS MIN = -37.63 at 80.40 MS **AXIS 1**



CRSNG Version 1.16.14 - 8-Oct-1988  
CREATED: 17-NOV-87 15:51:29

Safety Laboratories Department, BE Unit  
PLOT PAGE 74

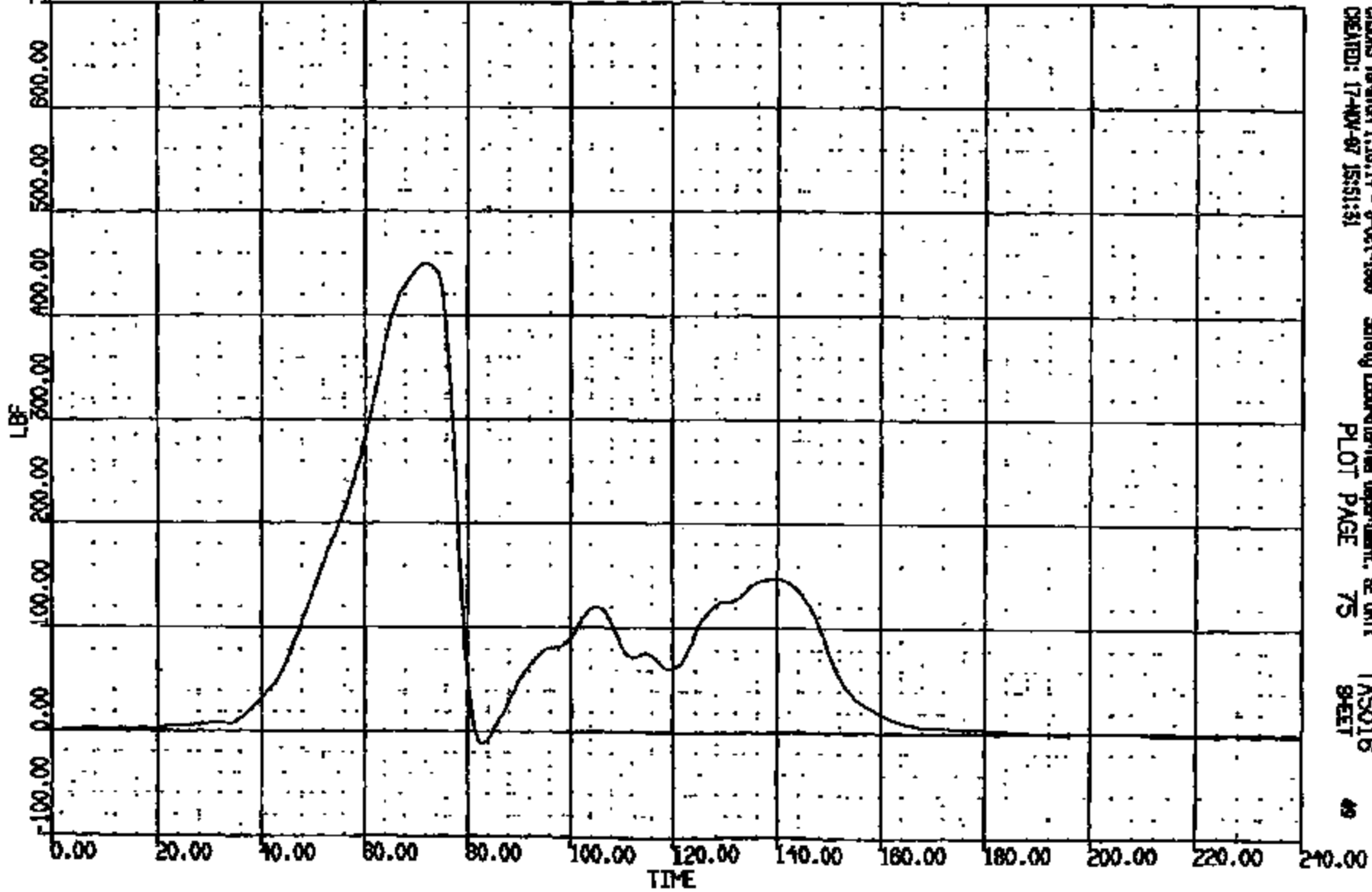
TAS016  
SHEET



CR: 10921 TO: TASQ16 DATE: 971117 14:41:53  
0-188

(26) CR10921T L/F TORSO BELT & RETRACTOR LOA GOC  
MAX = 410.2 at 72.08 MS MIN = -11.45 at 82.00 MS

AXIS 1

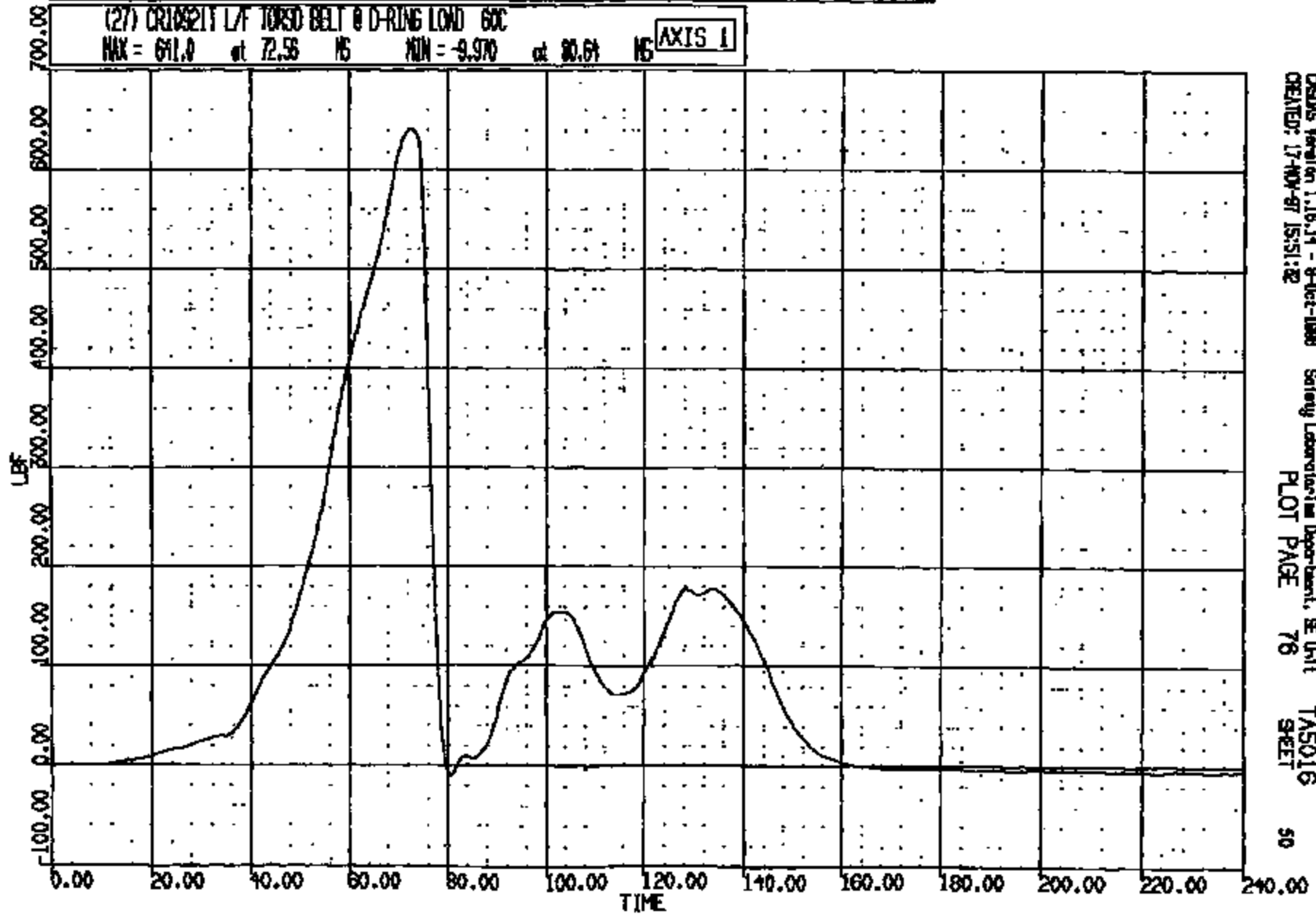


CRSIS Version 1.16.14 - 8-Oct-1999 Safety Laboratories Department, SE Unit  
CREATED: 17-NOV-97 15:51:51 PLOT PAGE 75 SHEET 49

CRIS 0010921

CR R: 10921 TO: TAS016 DATE: 971117 14:41:55  
0-199

(27) CR103211 L/F TORSO BELT @ D-RING LOAD 60C  
MAX = 611.0 at 72.56 MS MIN = -9.970 at 80.64 MS **AXIS 1**



CR035 Version 1.16.14 - 8-Oct-1999 Safety Laboratories Department, SE Unit TAS016  
CREATED: 17-NOV-97 15:51:32 PLOT PAGE 76 SHEET 50

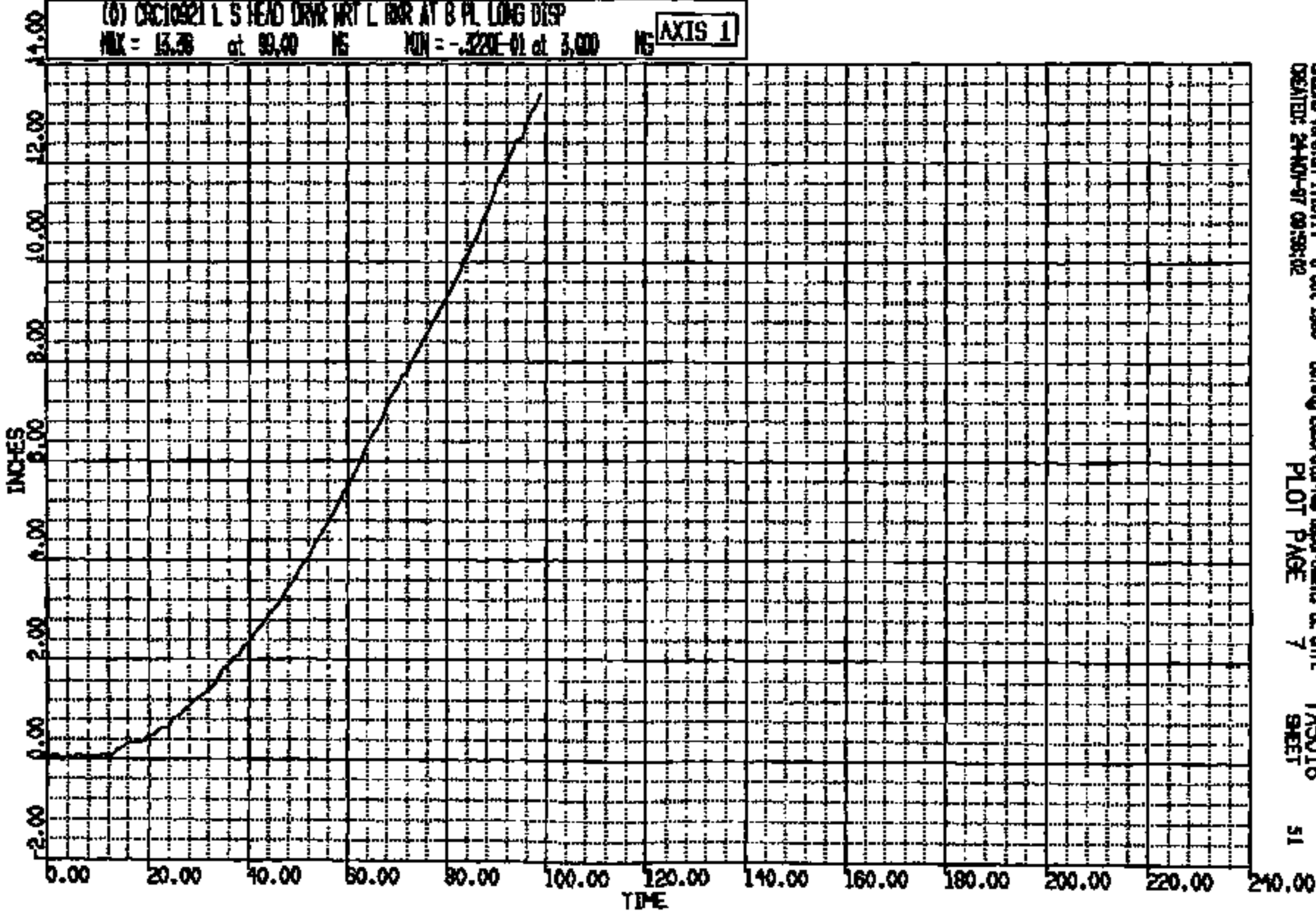
CRTS 0010921

DDI R: 10921 TO: TA5016 DATE: 971117 14:41:55  
-1.00

(0) CXC10921 L S HEAD DRY RT L BAR AT B PL LONG DISP

MAX = 13.36 at 93.00 NS MIN = -.322E-01 at 3.000 NS

AXIS 1



CRS 0010921

CRS 0010921 - 8-Oct-1998 Safety Laboratory Department BE Unit

TA5016

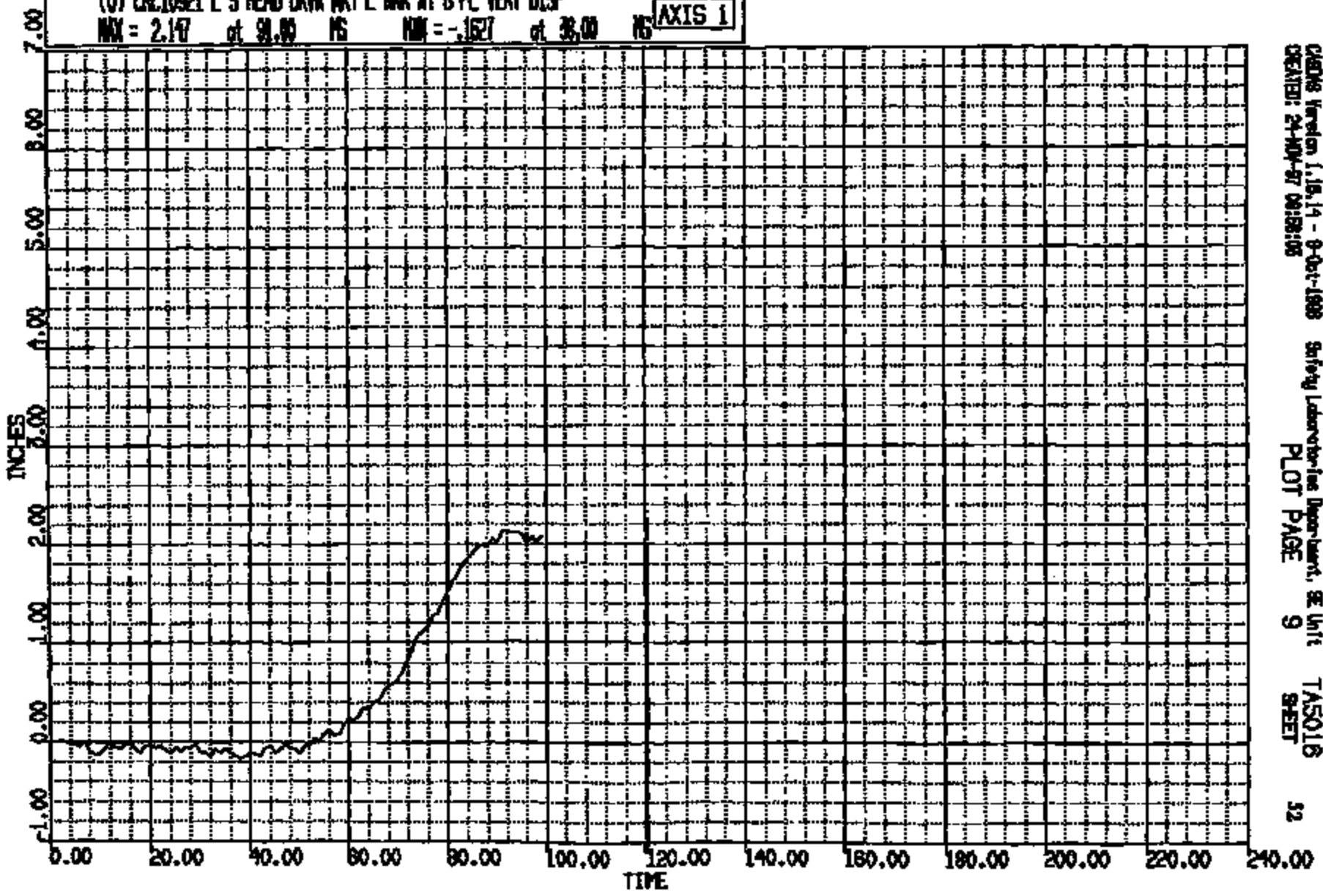
51

PLOT PAGE 7

CREATED: 24-NOV-97 09:58:02

DR R: 10821 TO: TAB018 DATE: 971117 14:41:53  
0108

(6) CR010921 L S HEAD OVR WRT L DR AT B PL VERT DISP  
MAX = 2.147 at 91.00 NS MIN = -.1527 at 38.00 NS **AXIS 1**

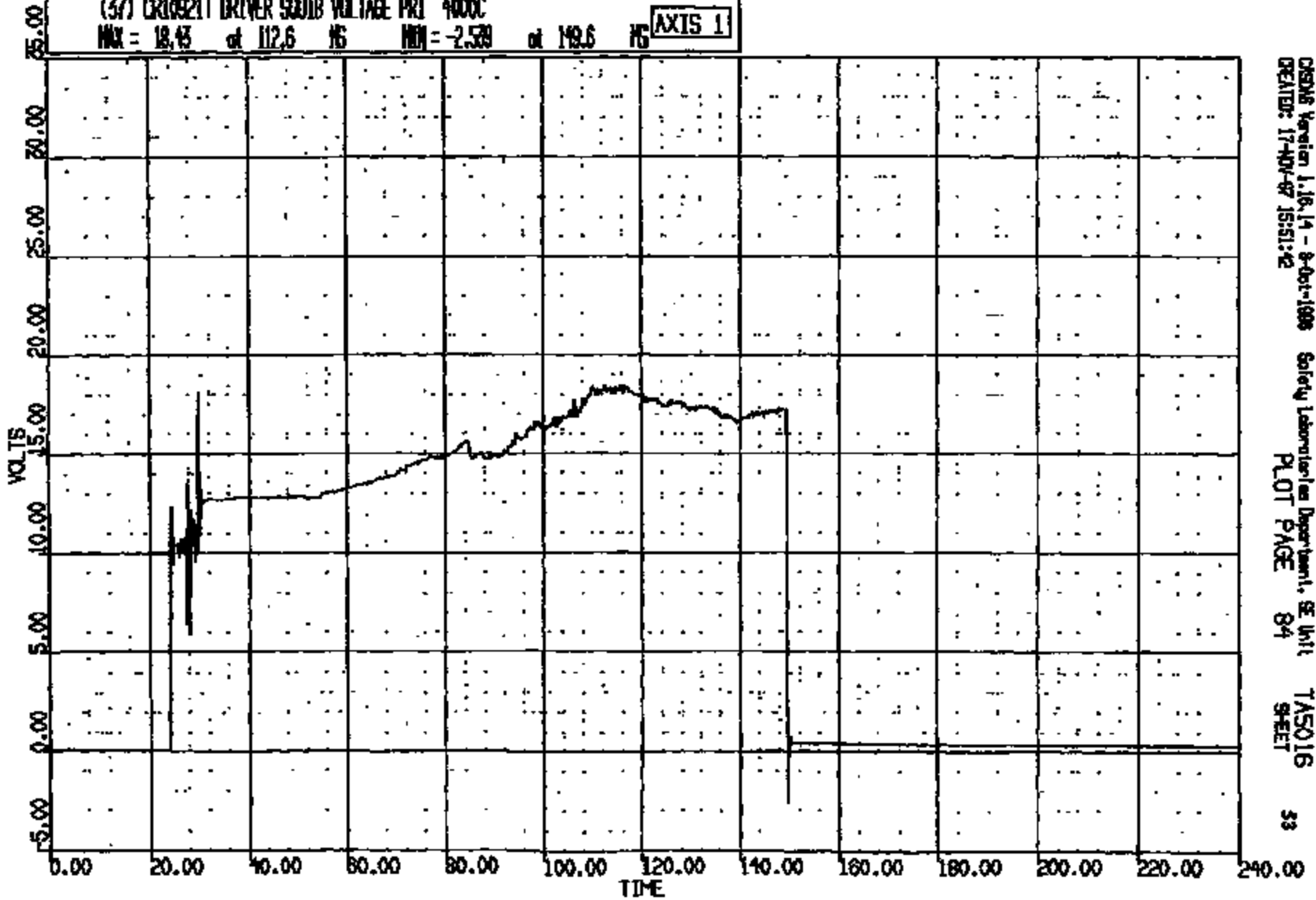


CR010921

CR R: 10921 TO: T45016 DATE: 871117 14:41:53  
0-185

(37) CR10921 DRIVER SCUB VOLTAGE PRI 4000  
MAX = 18.45 at 112.6 NS MIN = -2.539 at 149.6 NS

AXIS 1



OSHM Version 1.18.14 - 8-Oct-1988  
CREATED: 17-NOV-87 15:51:42

Safety Laboratories Department, SE Unit  
PLOT PAGE 84

T45016  
SHEET

CRIS 0010921

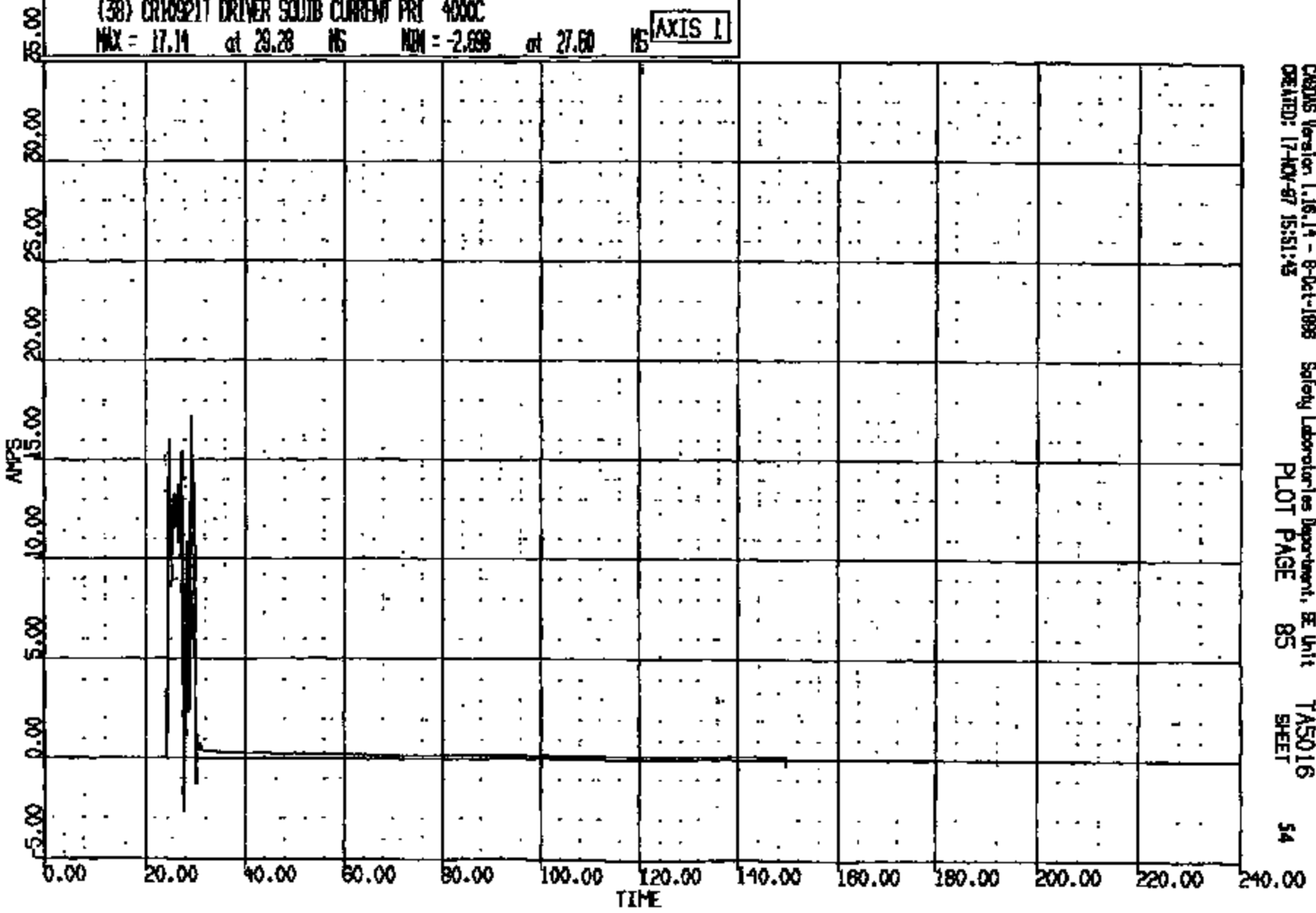
OP R: 10921 TO: T45016 DATE: 971117 14:41:52

U-100

(38) CR10921 DRIVER SOLID CURRENT PRI 4000C

MAX = 17.14 at 29.28 MS MIN = -2.638 at 27.60 MS

AXIS 1



CASYS Version 1.16.14 - 8-Oct-1998  
CREATED: 17-NOV-97 15:51:45

Safety Laboratories Department, BE Unit  
PLOT PAGE 85

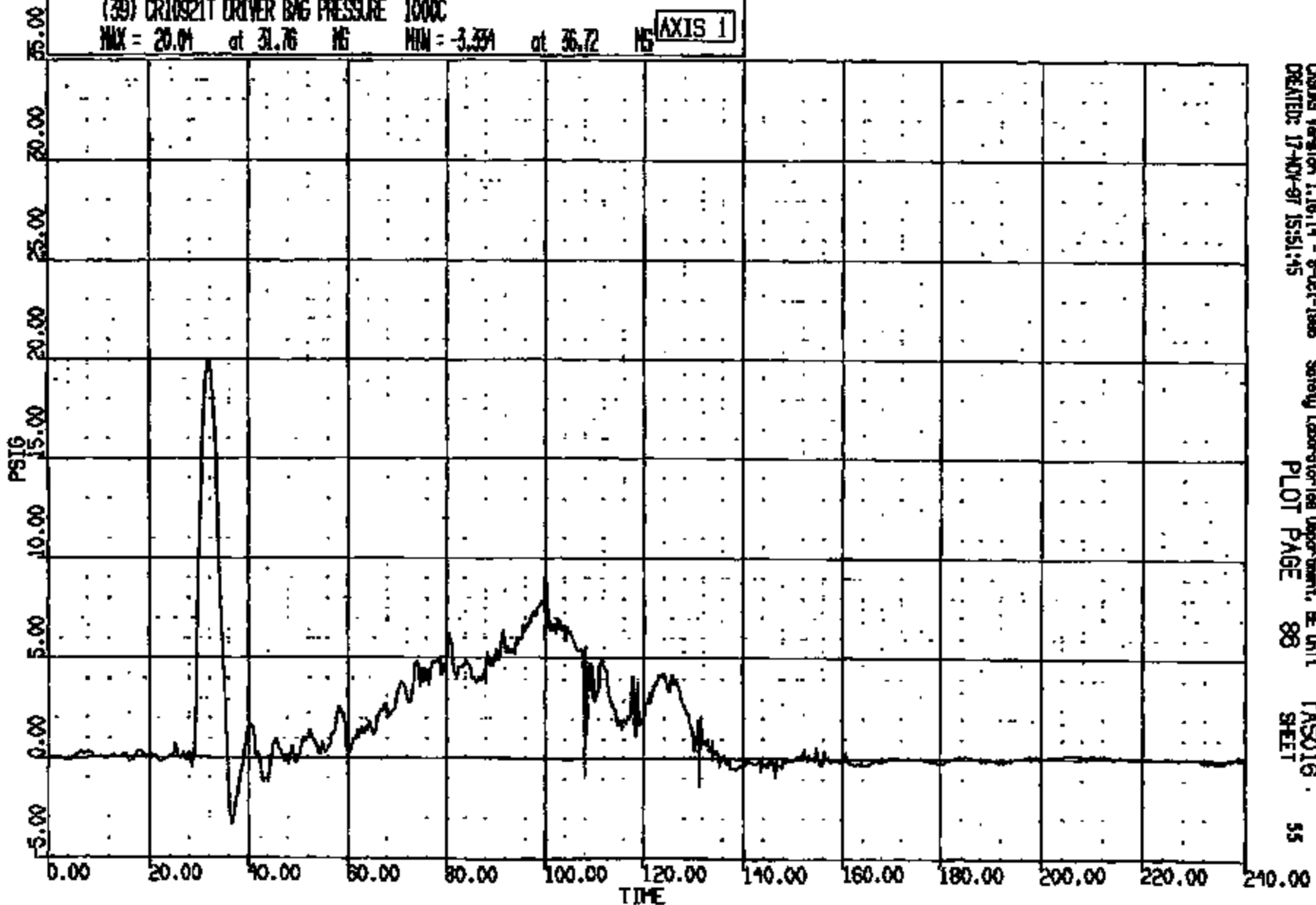
T45016  
SHEET

CRIS 0010921

CR R: 10921 TO: TAB016 DATE: 971117 14:41:53  
D-188

(39) CR10921T DRIVER BAG PRESSURE 1000C  
MAX = 20.01 at 31.76 MS MIN = -3.334 at 36.72 MS

AXIS 1



CRS05 Version 1.16.14 - 8-Oct-1998  
CREATED: 17-NOV-97 15:51:45

Safety Laboratories Department, BE Unit 1  
PLOT PAGE 88

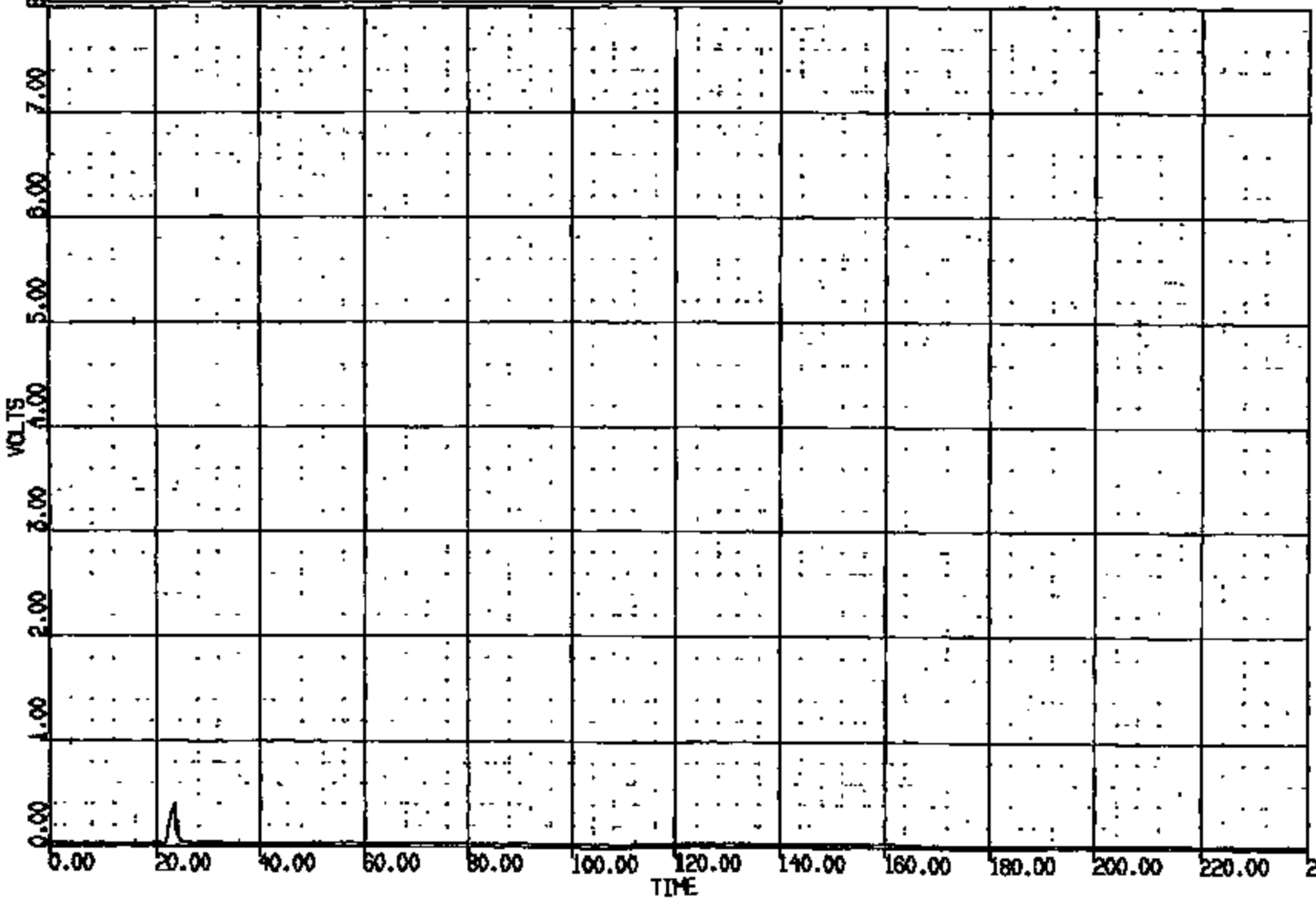
TAS016 .  
SHEET 55

CRIS 0010921

CR R: 10921 TO: TASC016 DATE: 971117 14:41:53  
D-198

(68) CR10921T C/F FLOOR PAN @ LHD ACID I AC 4000C  
MAX = 0.4004 of 25.41 MS MIN = 0.1553E-01 of 3.120 MS

AXIS 1



CRS016 Version 1.16.14 - 8-Oct-1996 Safety Laboratories Department, BE Unit TASC016  
CREATED: 17-NOV-97 15:52:10 PLOT PAGE 115 SHEET 56

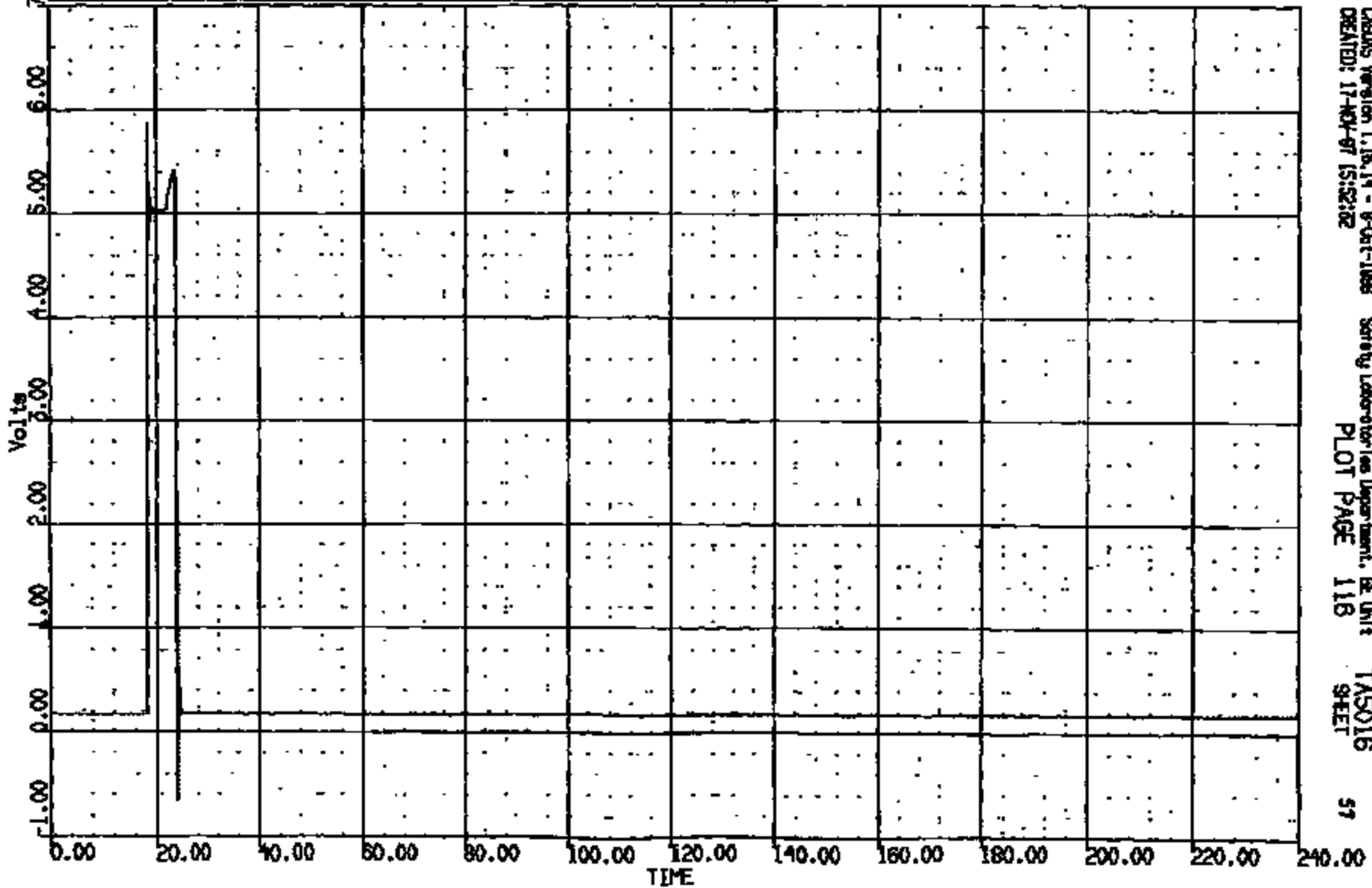
CRTS 0010921



CIR RE: 10921 TO: TABO16 DATE: 071117 14:41:53  
D-188

(69) CR10921T C/F FLOOR PAN @ LHD ACD 2 AC 400C  
MAX = 5.889 at 18.56 NS MIN = -.0592 at 23.76 NS

AXIS 1



CIRDS Version 1.18.14 - 8-Oct-1988  
CREATED: 17-NOV-87 15:52:32

Safety Laboratories Department, BE Unit  
PLOT PAGE 118

TASO16  
SHEET

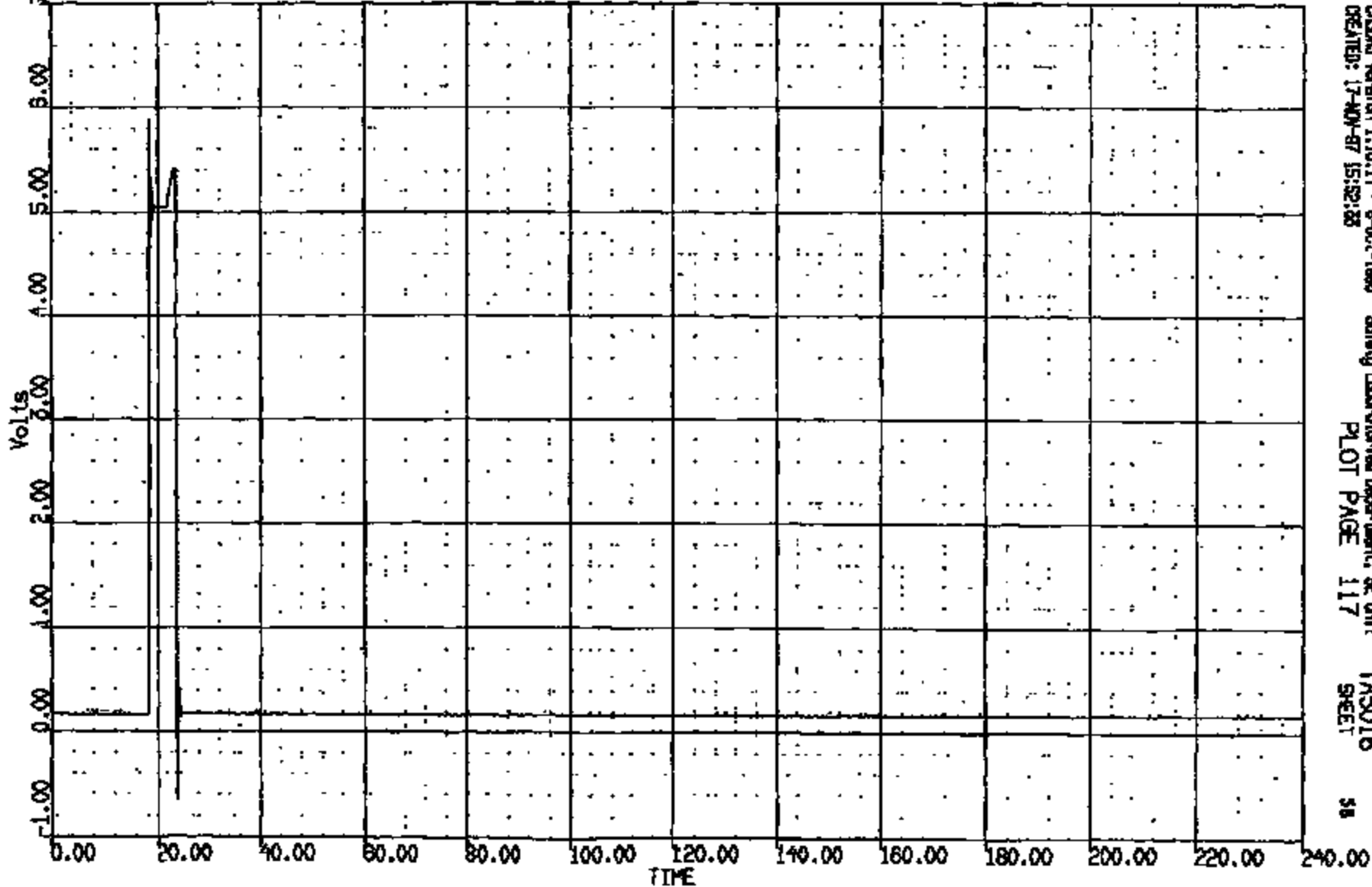
57

CRTS 0010921

CR R: 10921 TO: T45016 DATE: 971117 14:41:53  
0-188

(70) CR10921T C/F FLOOR PAN @ LHD ACD 3 AC 4000C  
MAX = 5.479 at 18.56 MS MIN = -.0548 at 23.76 MS

AXIS 1



CASME Version 1.16.14 - 8-Oct-1999  
CREATED: 17-NOV-97 15:52:28

Safety Laboratories Department, SE Unit  
PLOT PAGE 117

T45016  
SHEET

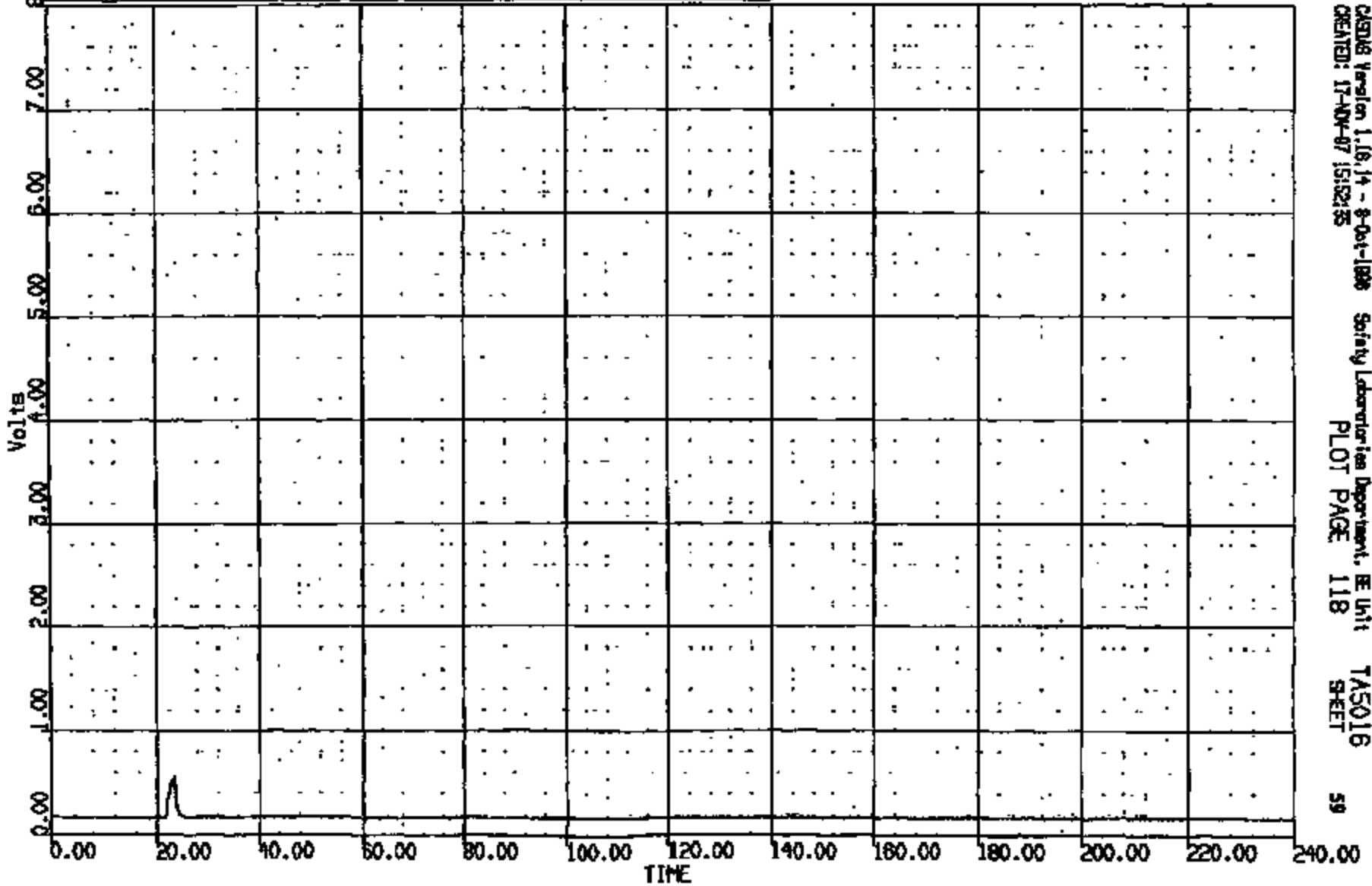
58

CRIS 0010921

DR R: 10921 TO: TASC016 DATE: 971117 14:41:58  
D-188

(71) CR10921T C/F FLOOR PAN @ LHD ACD 4 AC 900C  
MAX = 0.5066 at 23.52 MS MIN = 0.1563 at 18.56 MS

AXIS 1



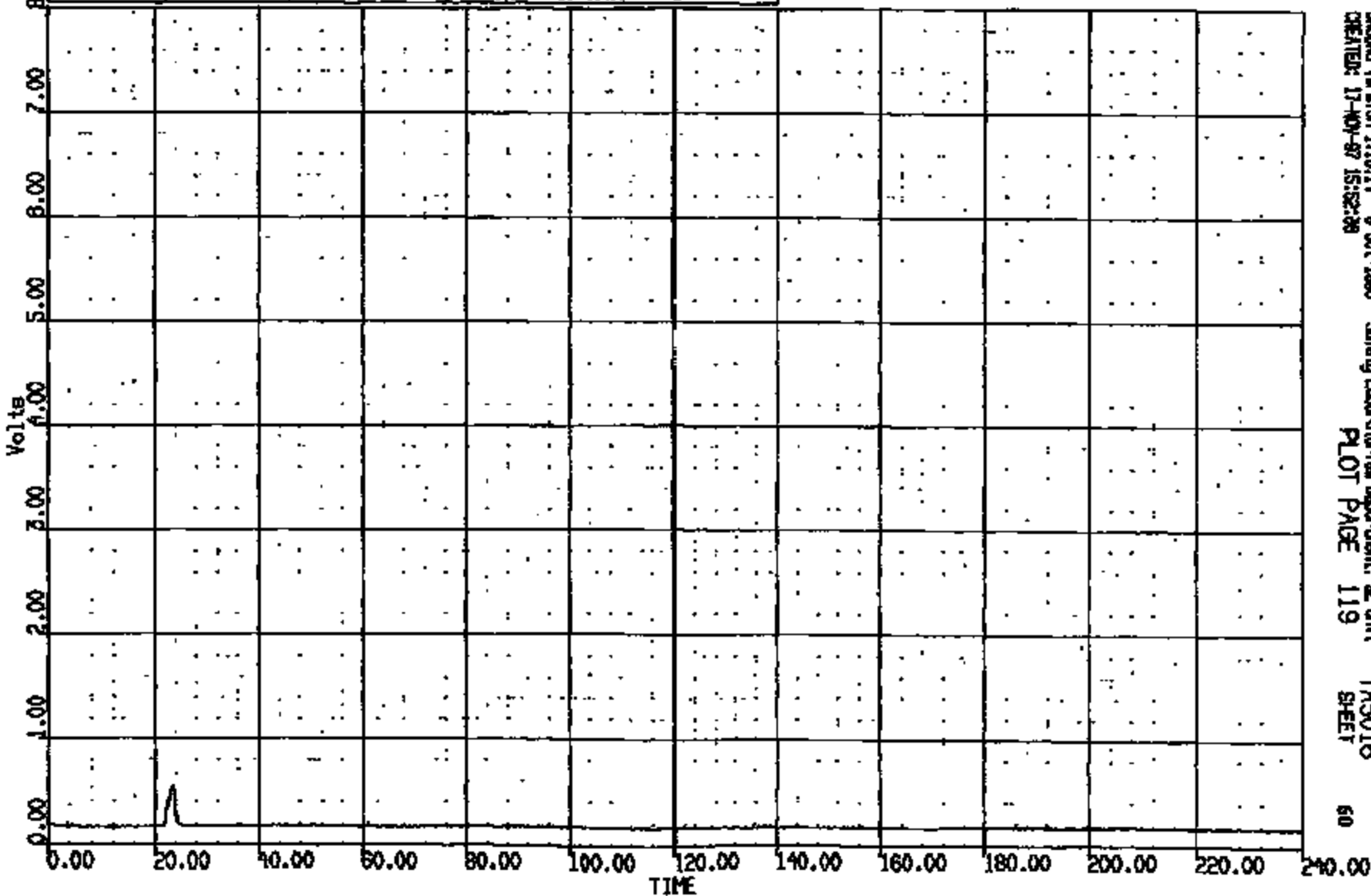
CASMS Version 1.16.14 - 8-Oct-1998 Safety Laboratories Department, BE Unit TASC016  
CREATED: 17-NOV-97 15:12:15 PLOT PAGE 118 SHEET 59

CRTS 0010921

DR R: 10821 TO: T45016 DATE: 071117 14:41:53  
D-180

(72) CR10921T C/F FLOOR PAN @ LHD ACD 5 AC 400C  
MAX = 0.5518 at 23.52 MS MIN = 0.1563 at 8.480 MS

AXIS 1



CASIMS Version 1.10.14 - 8-Oct-1998  
CREATED: 17-NOV-97 15:52:30

Safety Laboratory Department, SE Unit  
PLOT PAGE 119

T45016  
SHEET

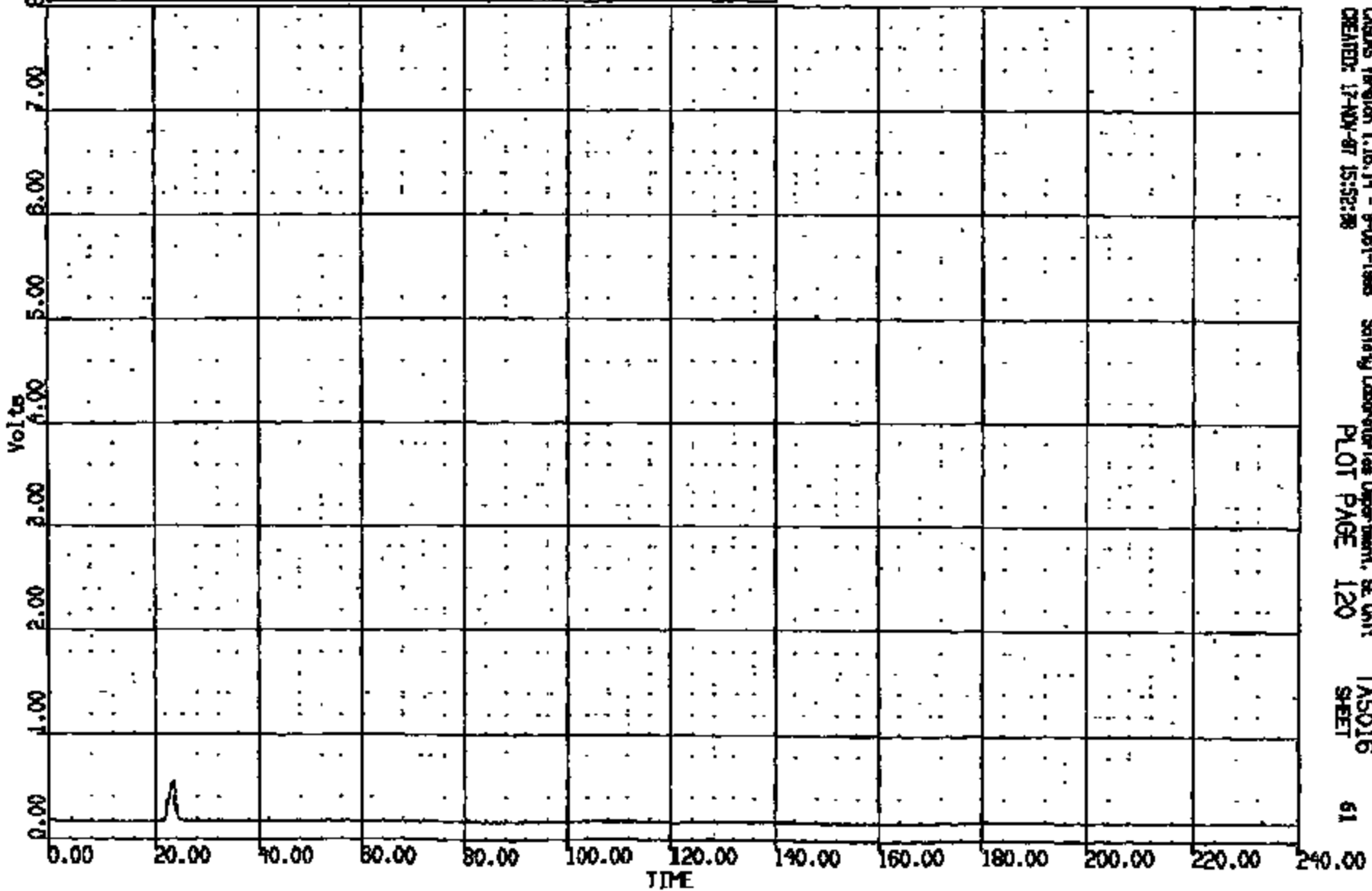
50

CR10921

CR R: 10921 TO: TAB016 DATE: 971117 17:41:58  
0-188

(73) CR10921T C/F FLOOR PAN @ LHD ACD 6 AC 400C  
MAX = 0.5518 at 23.52 NS MIN = 0.1511 at 3.040 NS

AXIS 1



CASYS Version 1.16.14 - 9-01-1998  
CREATED: 17-NOV-97 15:52:38

Safety Laboratories Department, SE Unit  
PLOT PAGE 120

TAB016  
SHEET

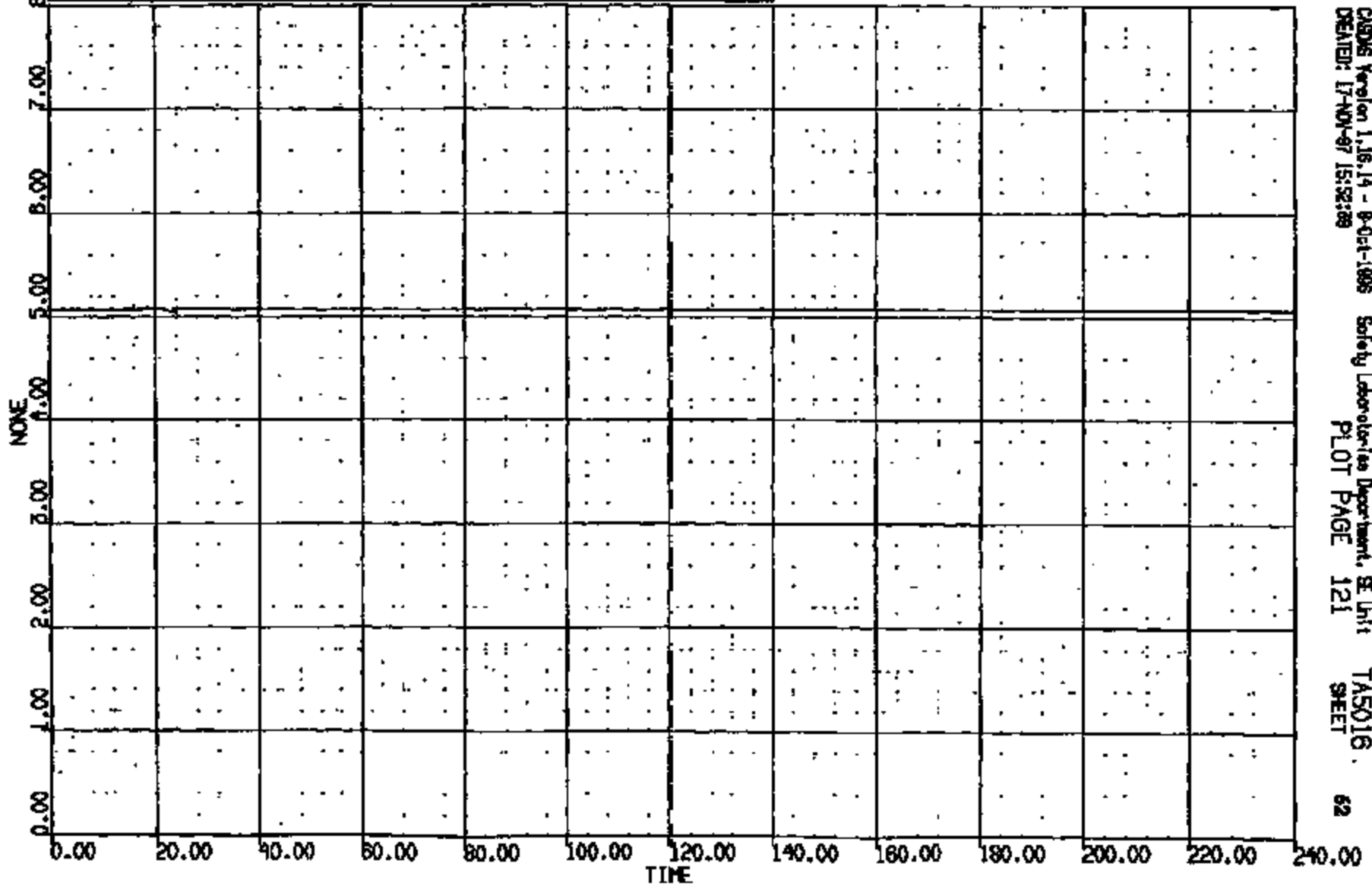
61

CRTS 0010921

CR R: 10921 TO: TAB016 DATE: 971117 14:41:55  
0-180

(74) CR10921T C/F FLOOR PAN @ LHD ACD 7 AC 4000  
MAX = 5.093 at 18.48 MS MIN = 5.044 at 23.76 MS

AXIS 1

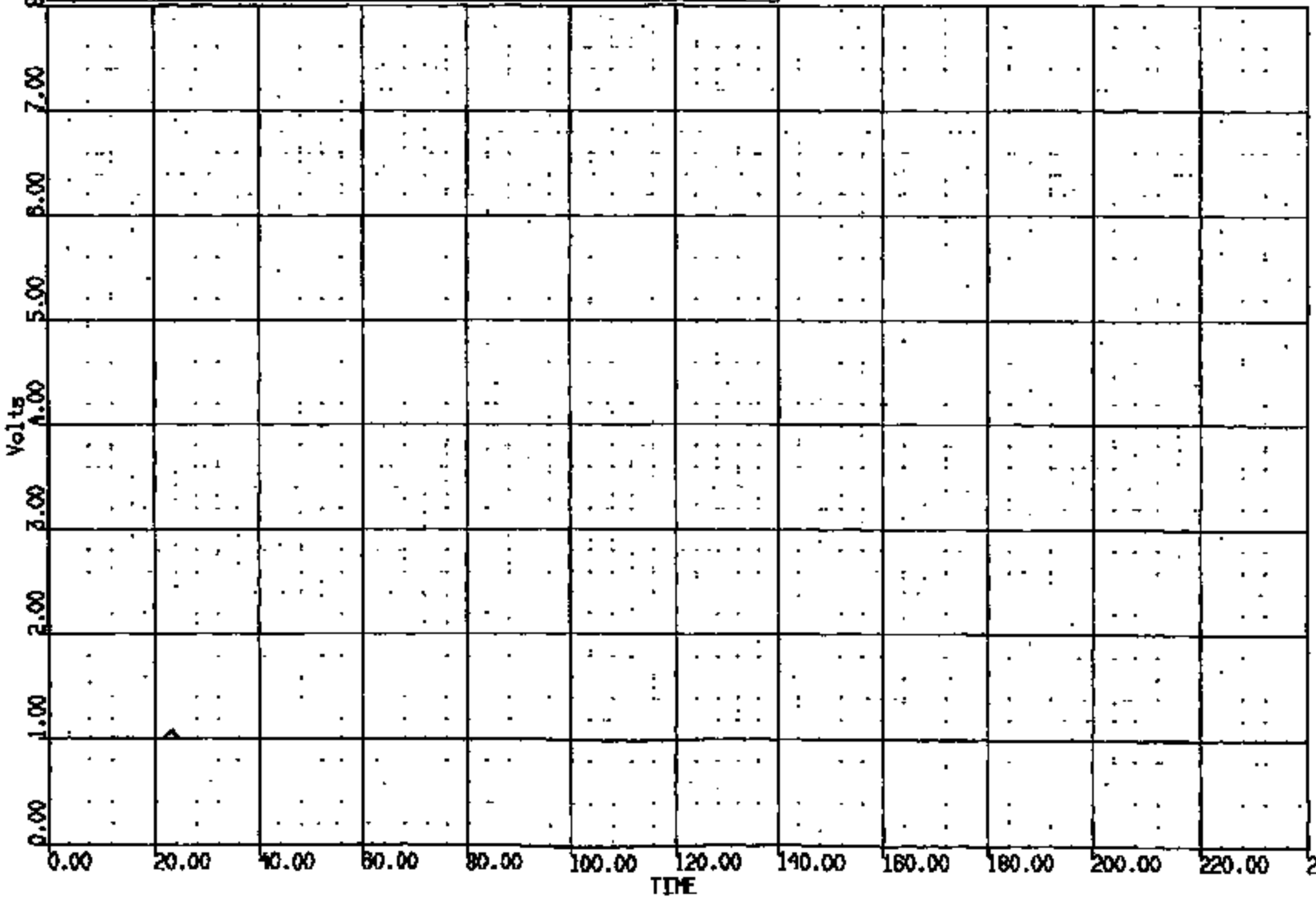


CADMS Version 1.16.14 - 8-Oct-1995 Safety Laboratories Department, SE Unit  
DRAWN: 17-NM-97 15:52:09 PLOT PAGE 121 TAS016 . 62  
SHEET

CRTS 0010921

CR R: 10921 TD: TAB016 DATE: 971117 14:41:55  
D-188

(75) CR10921T C/F FLOOR PAN @ LHD ACD 8 AC 400C  
MAX = 1.085 at 23.44 MS MIN = 1.002 at 73.12 MS **AXIS 1**

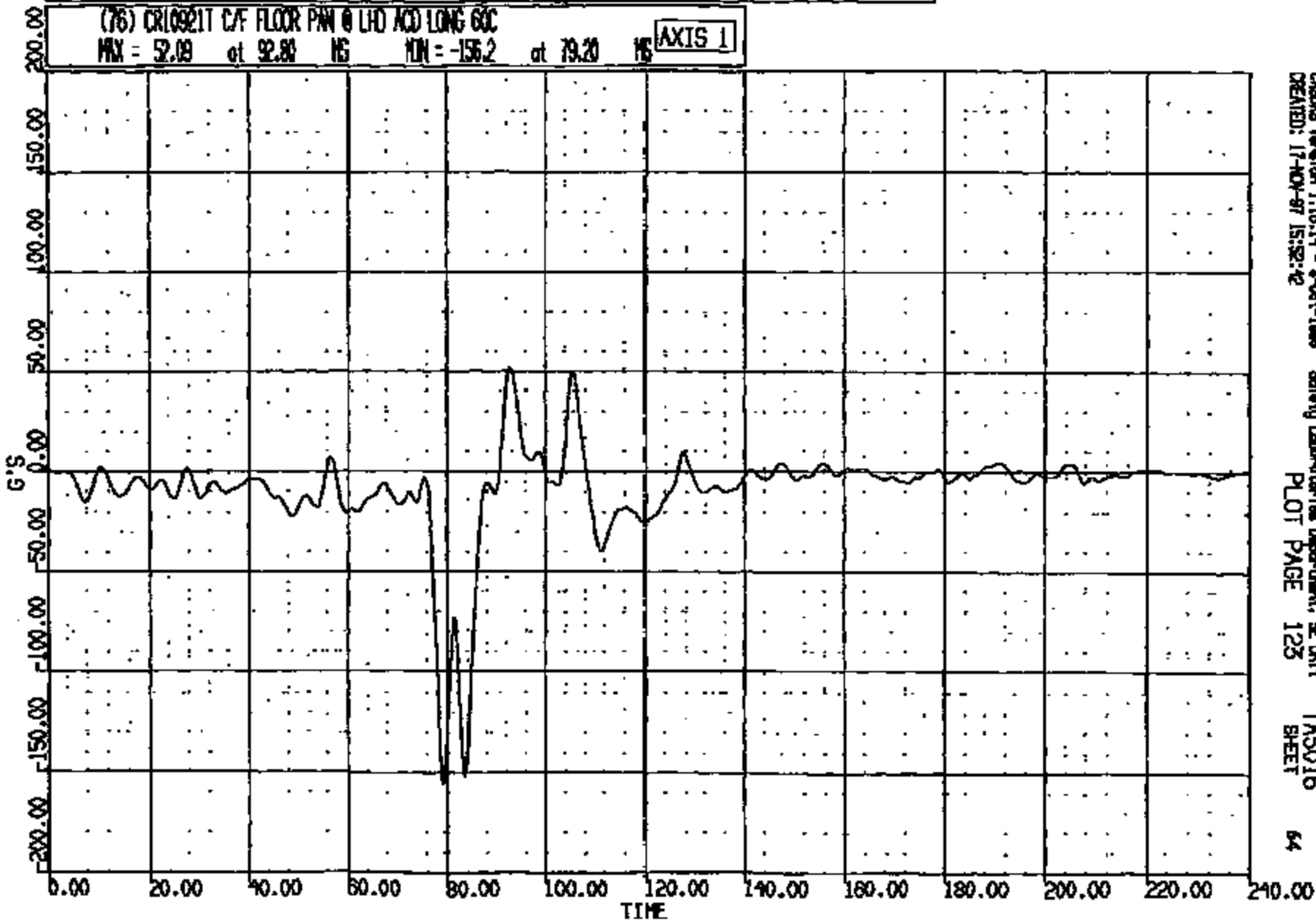


CASUS Version 1.16.14 - 8-Oct-1998 Safety Laboratories Department, BE Unit  
CREATED: 17-NOV-97 15:22:41 PLOT PAGE 122 TMS016  
SHEET 63

CRIS 0010921

DIR #: 10921 TO: T45016 DATE: 871117 14:41:53  
D-198

(76) CR10921 C/F FLOOR P/W @ LHO ACD LONG 60C  
MAX = 52.09 at 92.80 MS MIN = -156.2 at 79.20 MS **AXIS 1**



CASUS Version 1.16.14 - 8-Oct-1988  
CREATED: 17-NOV-87 15:32:42

Safety Laboratories Department, SE Unit  
PLOT PAGE 123

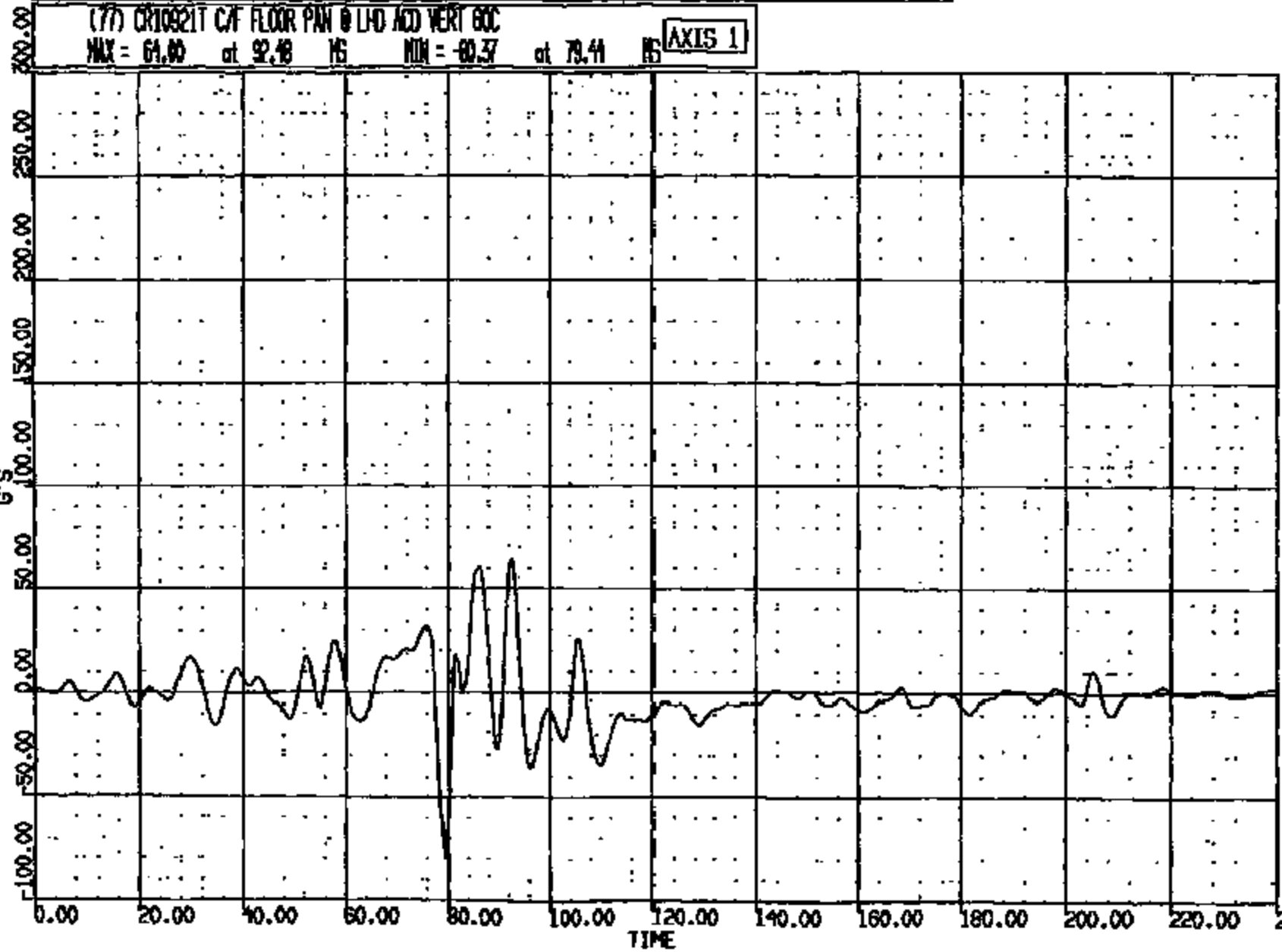
T45016  
SHEET

64

CRTS 0010921



CR R: 10921 TO: TA5016 DATE: 871117 14:41:53  
0-188



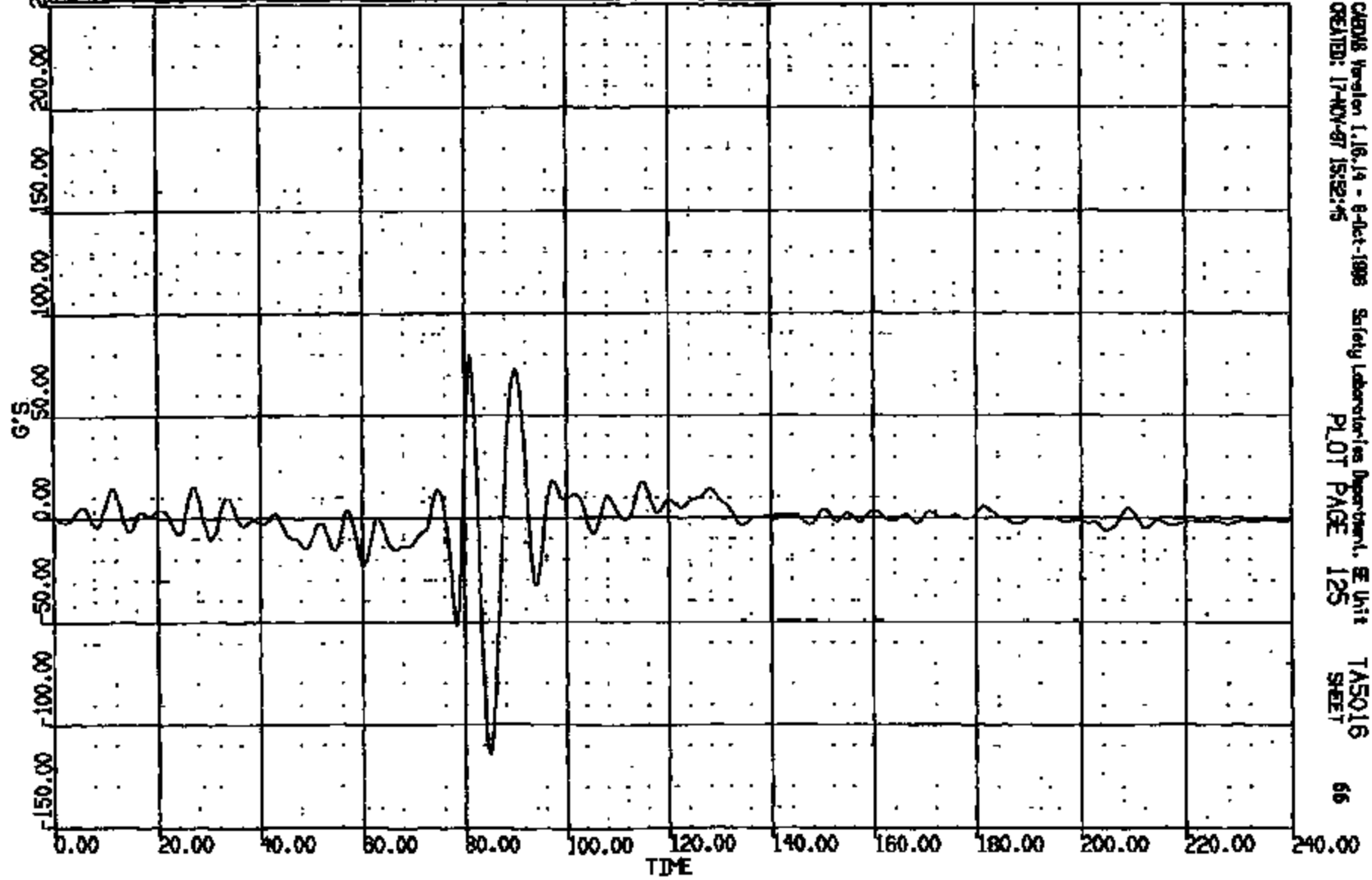
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CREATED: 17-NOV-87 15:52:44 PLOT PAGE 124 TMS016  
SHEET 65

CRIS 0010921

CR R: 10921 TO: TA5016 DATE: 971117 14:41:58  
D-108

(78) CR1021T C/F FLOOR PAN @ LHD ACC LAT SOC  
MAX = 79.51 at 81.12 NS MIN = -114.6 at 81.88 NS

AXIS 1



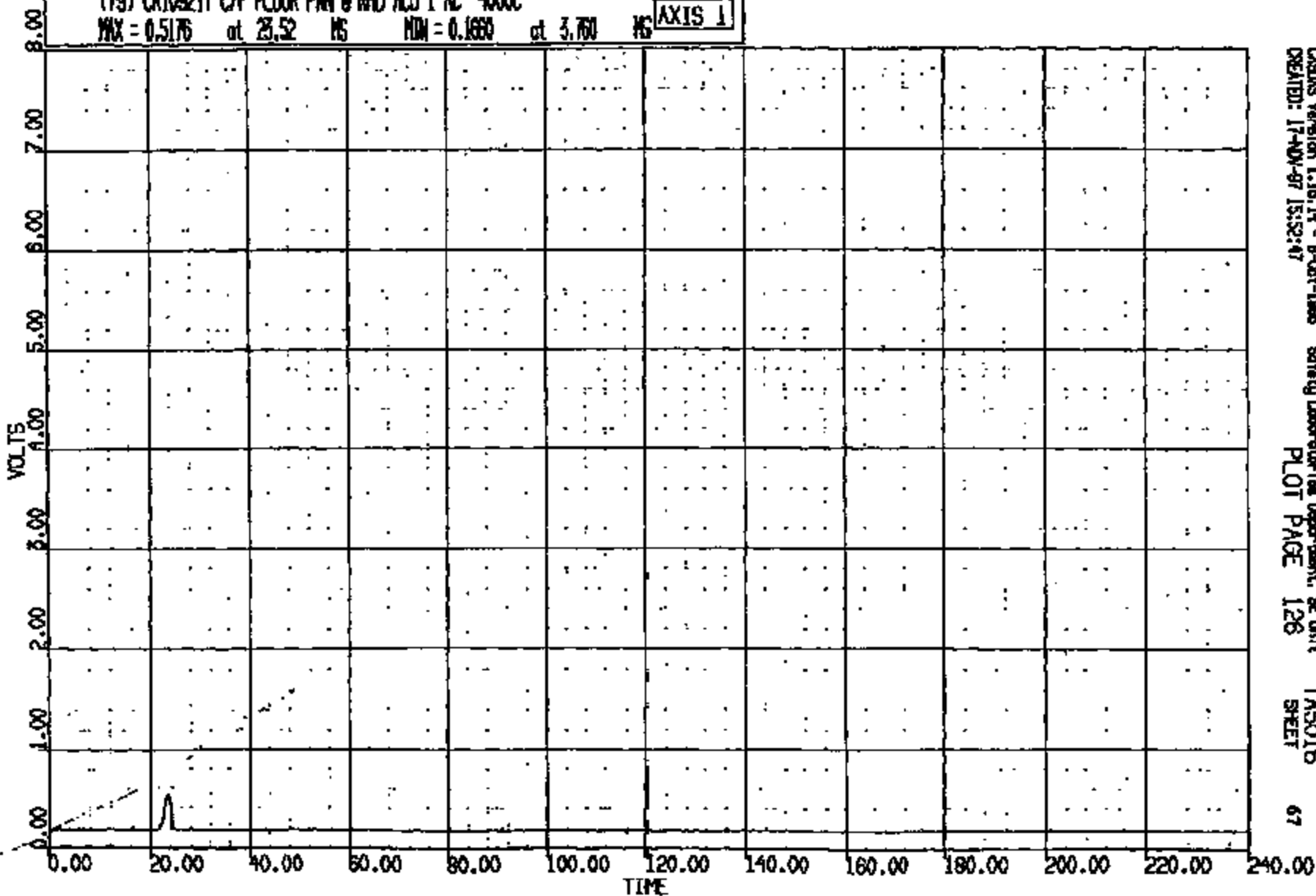
CR018 Version 1.16.14 - 8-Oct-1998 Safety Laboratories Department, E Unit TA5016 66  
CREATED: 17-NOV-97 15:52:45 PLOT PAGE 125 SHEET

CRTS 0010921

OP R: 10921 TO: TAS016 DATE: 971117 14:41:58  
01100

(79) CR10921T C/F FLOOR PAN @ HND ACD I AC 4000C  
MAX = 0.5176 at 23.52 MS MIN = 0.1660 at 3.760 MS

AXIS 1



CRISIS Version 1.18.14 - B-Oct-1998  
CREATED: 17-Nov-97 15:52:47

Safety Laboratory Department, SE Unit  
PLOT PAGE 126

TAS016  
SHEET

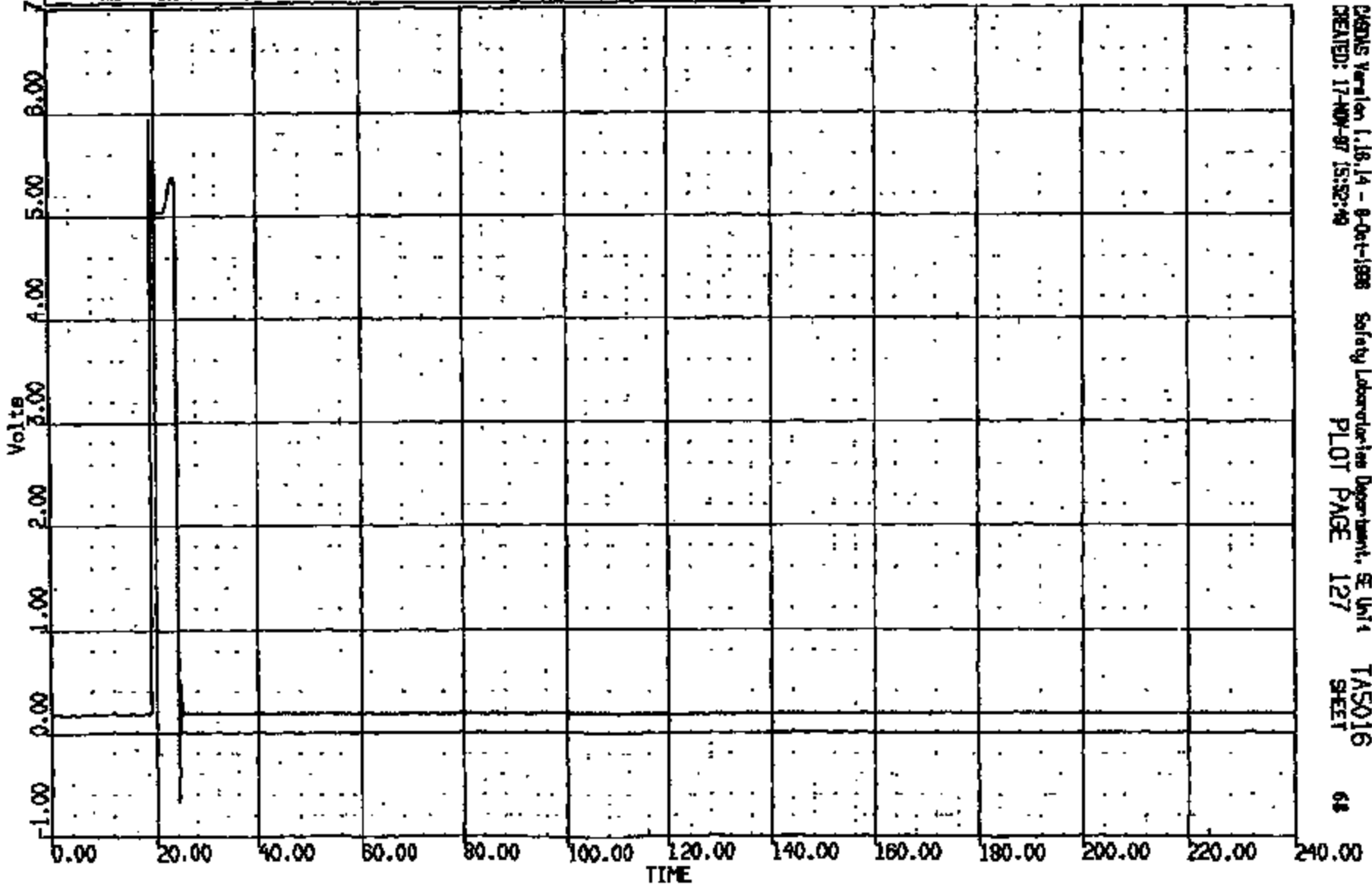
67

CRTS 0010921

OP R: 10921 TO: T43016 DATE: 971117 14:41:53  
01-108

(80) CR109211 C/F FLOOR PAV @ RHD ACD 2 AC 4000C  
MAX = 5.912 at 19.12 MS MIN = -.6738 at 24.32 MS

AXIS 1



CRSIS Version 1.18.14 - 8-Oct-1998 Safety Laboratories Department, SE Unit 1 T43016  
CREATED: 17-NOV-97 15:32:49 PLOT PAGE 127 SHEET 68

CRTS 0010921

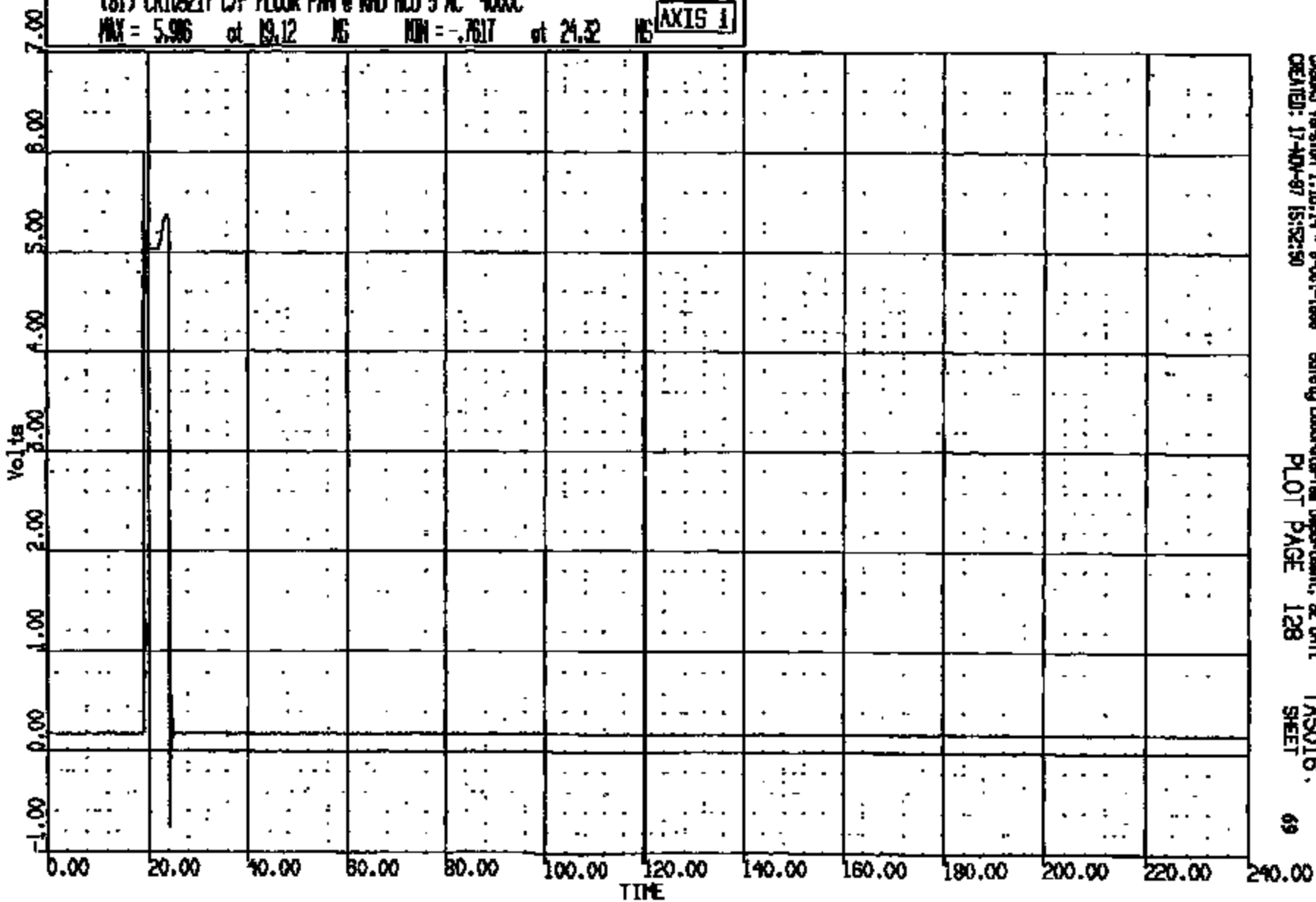
CR R: 10921 TO: TAS016 DATE: 871117 14:41:53

D-198

(81) CR10921T C/F FLOOR PAN @ HND ACD 3 AC 4000C

MAX = 5.906 at 19.12 MS MIN = -.7617 at 24.32 MS

AXIS 1



CASAS Version 1.16.14 - 8-Oct-1986  
CREATED: 17-NOV-87 15:52:50

Safety Laboratory Department, SE Unit

PLOT PAGE 128

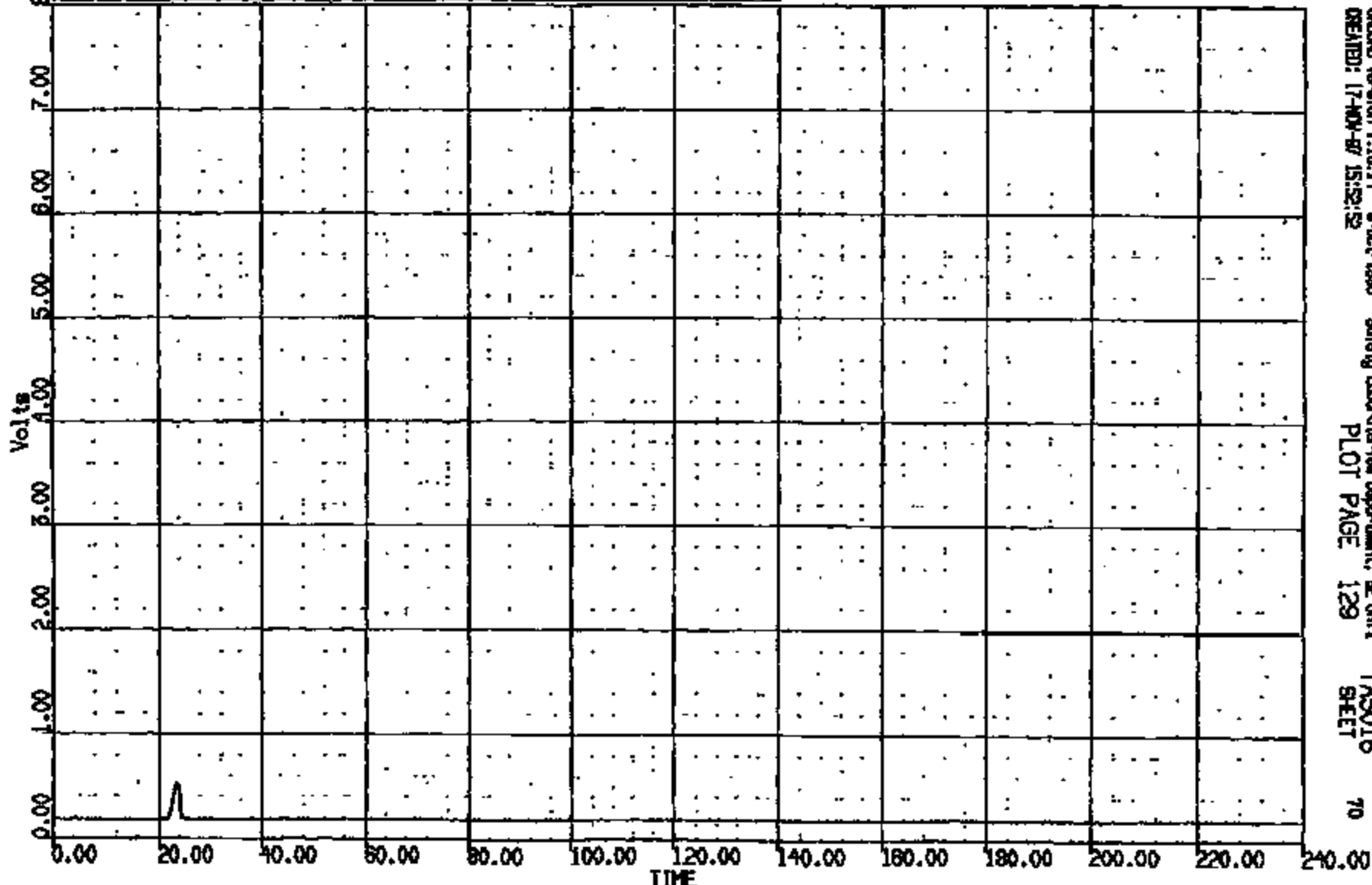
TAS016  
SHEET

69

CRTS 0010921

CR R: 10921 TO: TAB016 DATE: 971117 17:41:53  
D-100

(82) CROSSLIT C/F FLOOR PAN @ RAD ACID 4 AC 4000C  
MAX = 0.5371 at 23.52 MS MIN = 0.1758 at 1.520 MS **AXIS 1**



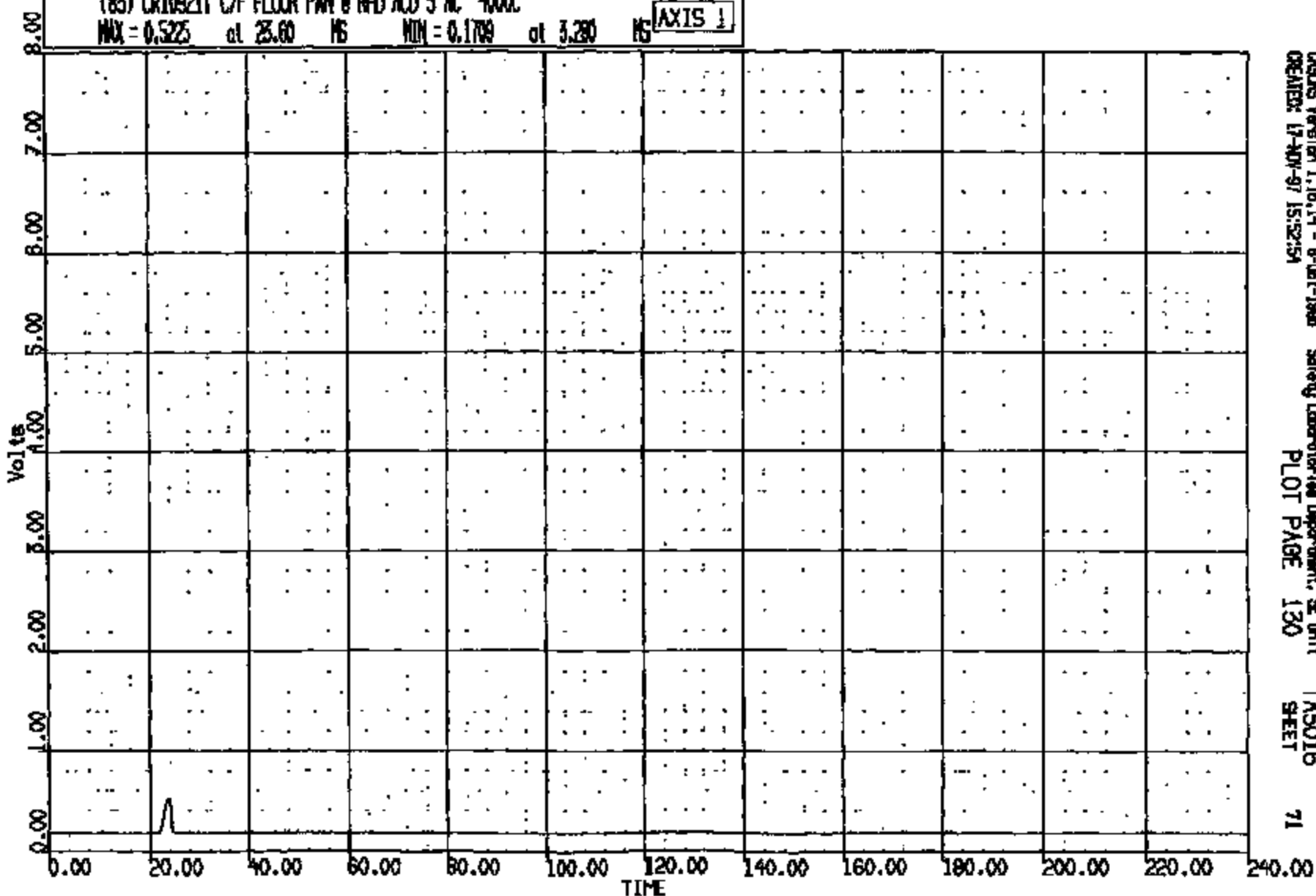
CASIMS Version 1.16.14 - 8-Oct-1998 Safety Laboratory Department, SE Unit  
CREATED: 17-NOV-97 15:52:52 PLOT PAGE 129 TAB016 SHEET 70

CRTS 0010921

CR: 10921 TO: TAB016 DATE: 971117 14:41:53  
0-100

(83) CR10921T C/F FLOOR PAN @ PHD ACD 5 MC 4000C  
MAX = 0.525 at 23.60 MS MIN = 0.1709 at 3.280 MS

AXIS 1



CR016 Version 1.18.14 - 8-Jul-1998  
CREATED: 17-NOV-97 15:52:54

Safety Laboratories Department, SE Unit  
PLOT PAGE 130

TAS016  
SHEET

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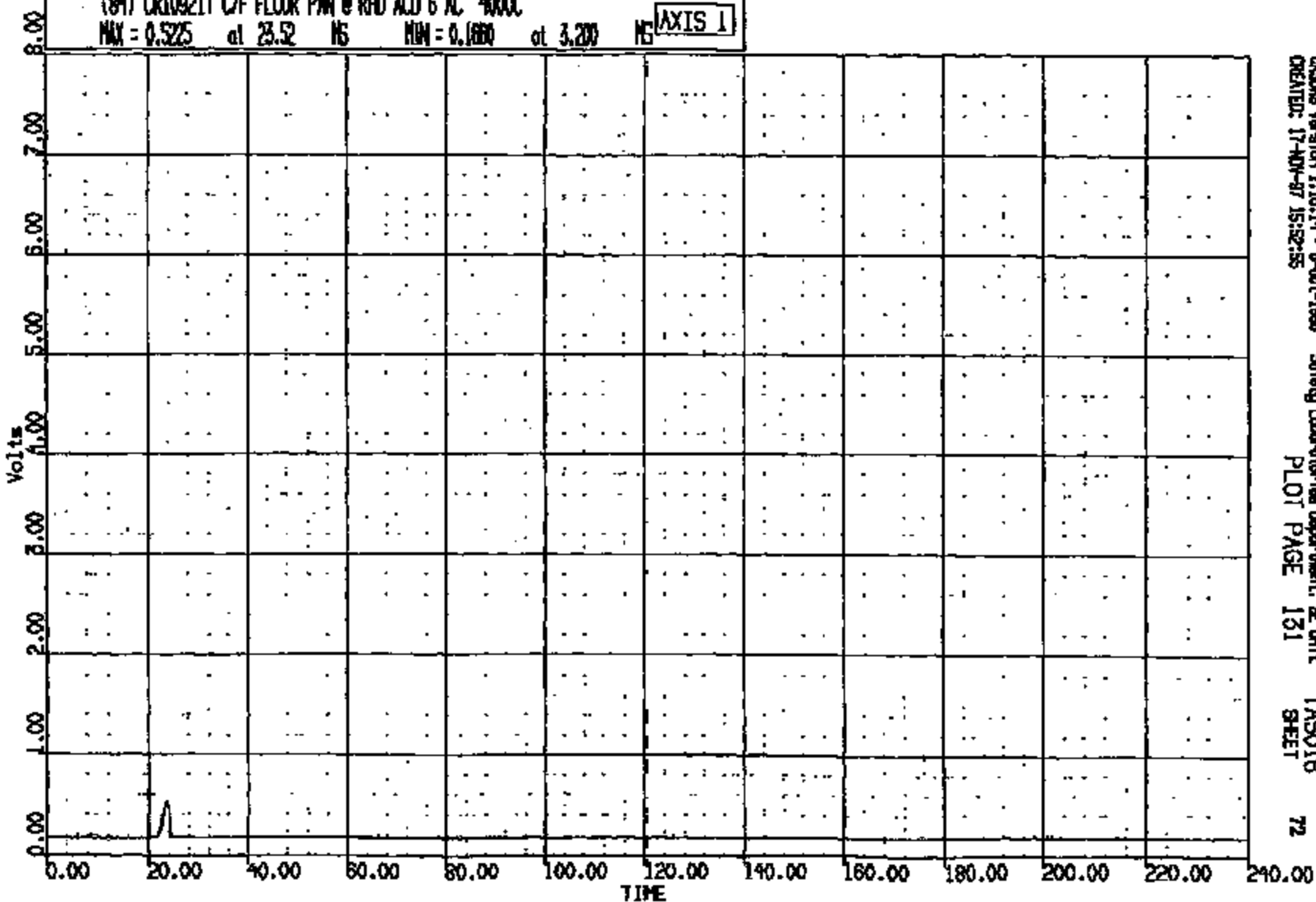
CRIS 0010921

CR: 10921 TO: T45016 DATE: 871117 14:41:55  
07198

(81) CR10921T C/F FLOOR P/W @ RHD ACD 6 AC 4000

MAX = 0.5225 at 23.52 MS MIN = 0.1680 at 3.200 MS

AXIS 1



CRAMS Version 1.16.14 - 8-04-1988  
CREATED: 17-NOV-87 15:52:55

Safety Laboratory Department, E Unit  
PLOT PAGE 131

T45016  
SHEET

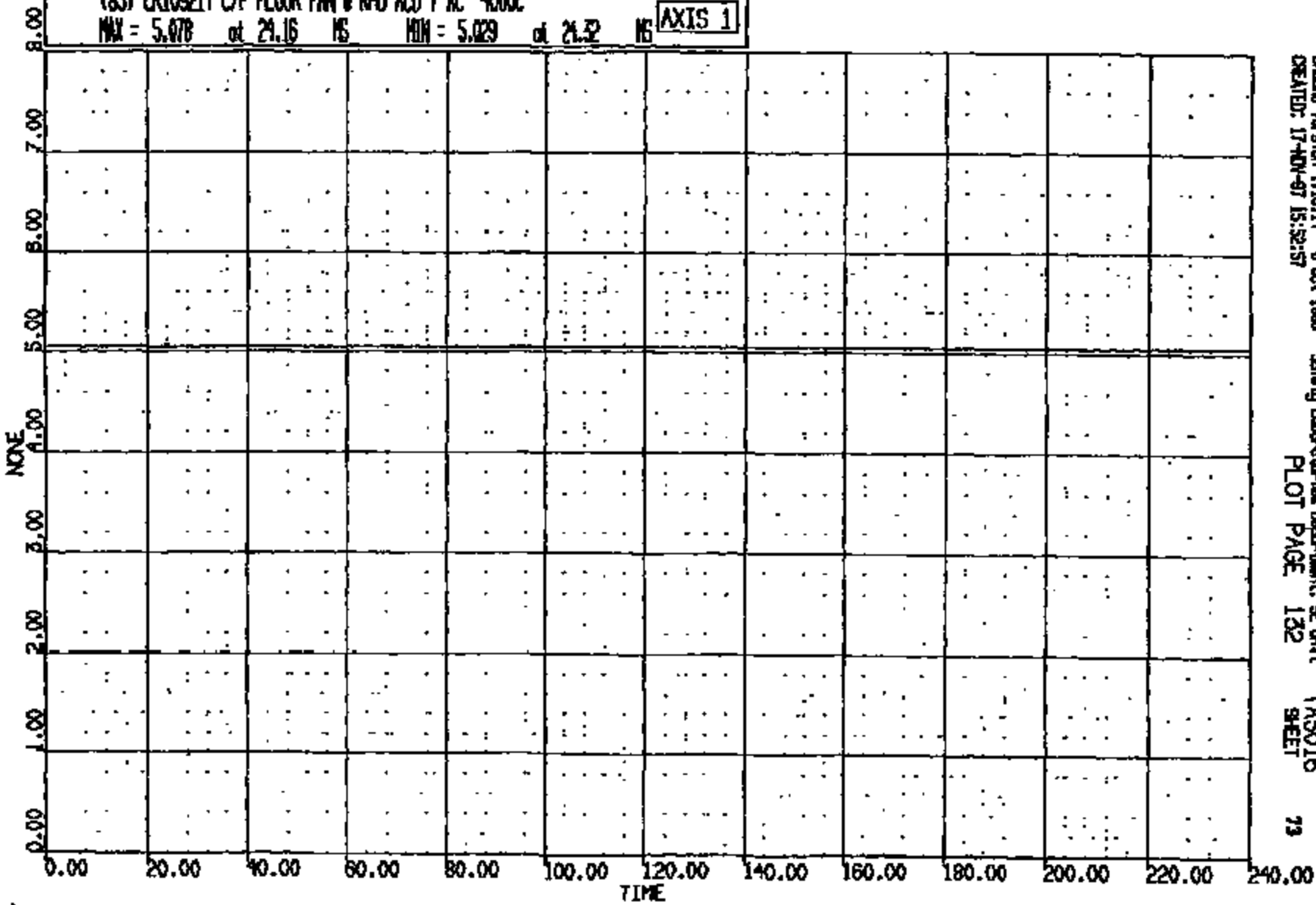
72

CRIS 0010921



CR R: 10921 TO: TAS016 DATE: 971117 14:41:56  
0-186

(85) CR10321T C/F FLOOR PAN @ RFD ACD 7 AC 400C  
MAX = 5.078 at 24.16 NS MIN = 5.029 at 24.32 NS **AXIS 1**



CRS016 Version 1.18.14 - 8-Oct-1998 Safety Laboratory/Lead Department, SE Unit  
CREATED: 17-NOV-97 15:25:57 PLOT PAGE 132 TAS016  
SHEET 73

CRTS 0010921

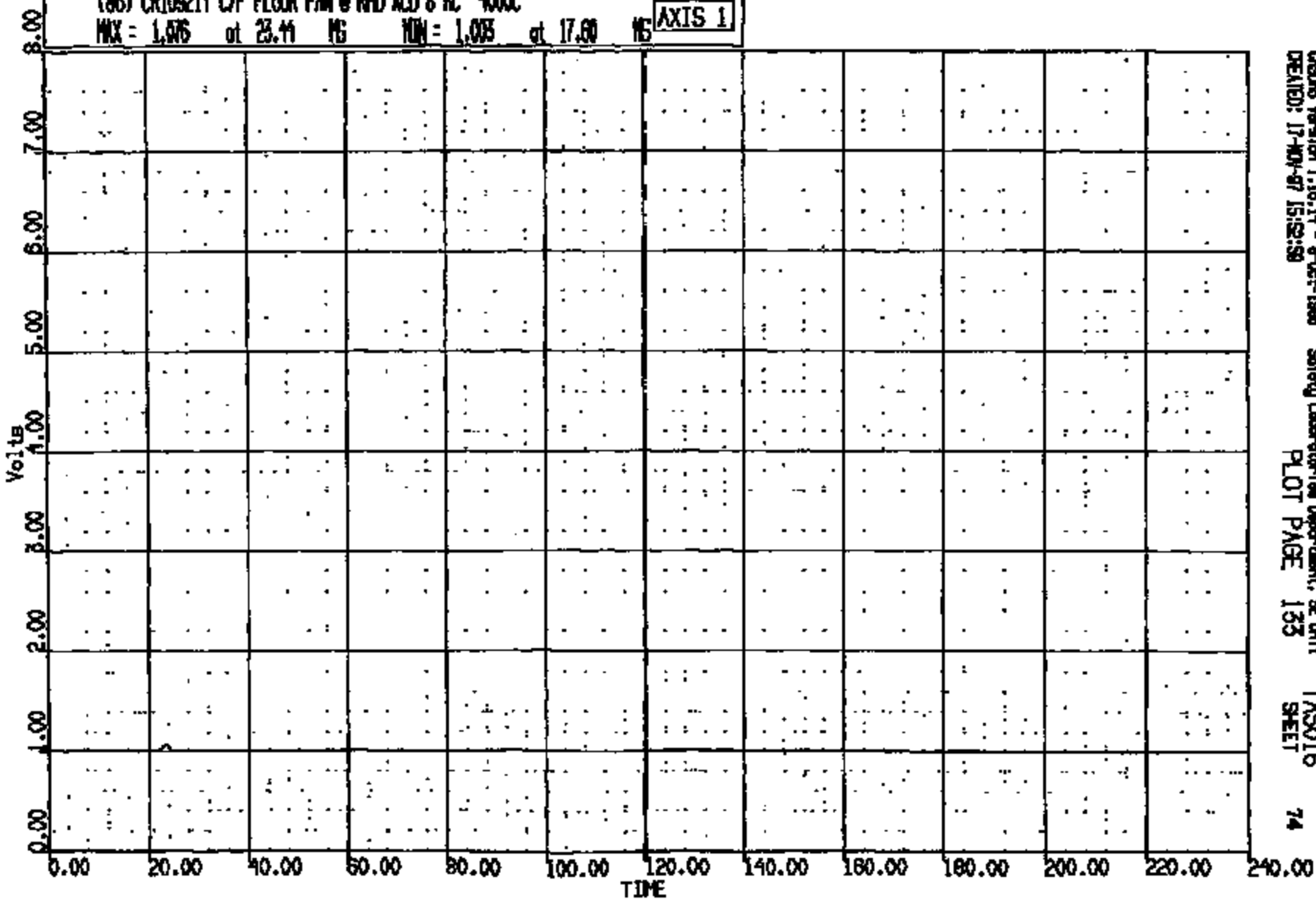
07: 10921 TO: T45016 DATE: 871117 14:41:53

07-109

(86) CR10921T C/F FLOOR PAN @ RHD ACD 8 AC 4000

MAX = 1.075 at 23.44 MS MIN = 1.035 at 17.60 MS

AXIS 1



CRMS Version 1.16.14 - 8 Oct 1988  
CREATED: 17-NOV-87 15:52:58

Safety Laboratory Department, SE Unit  
PLOT PAGE 133

T45016  
SHEET

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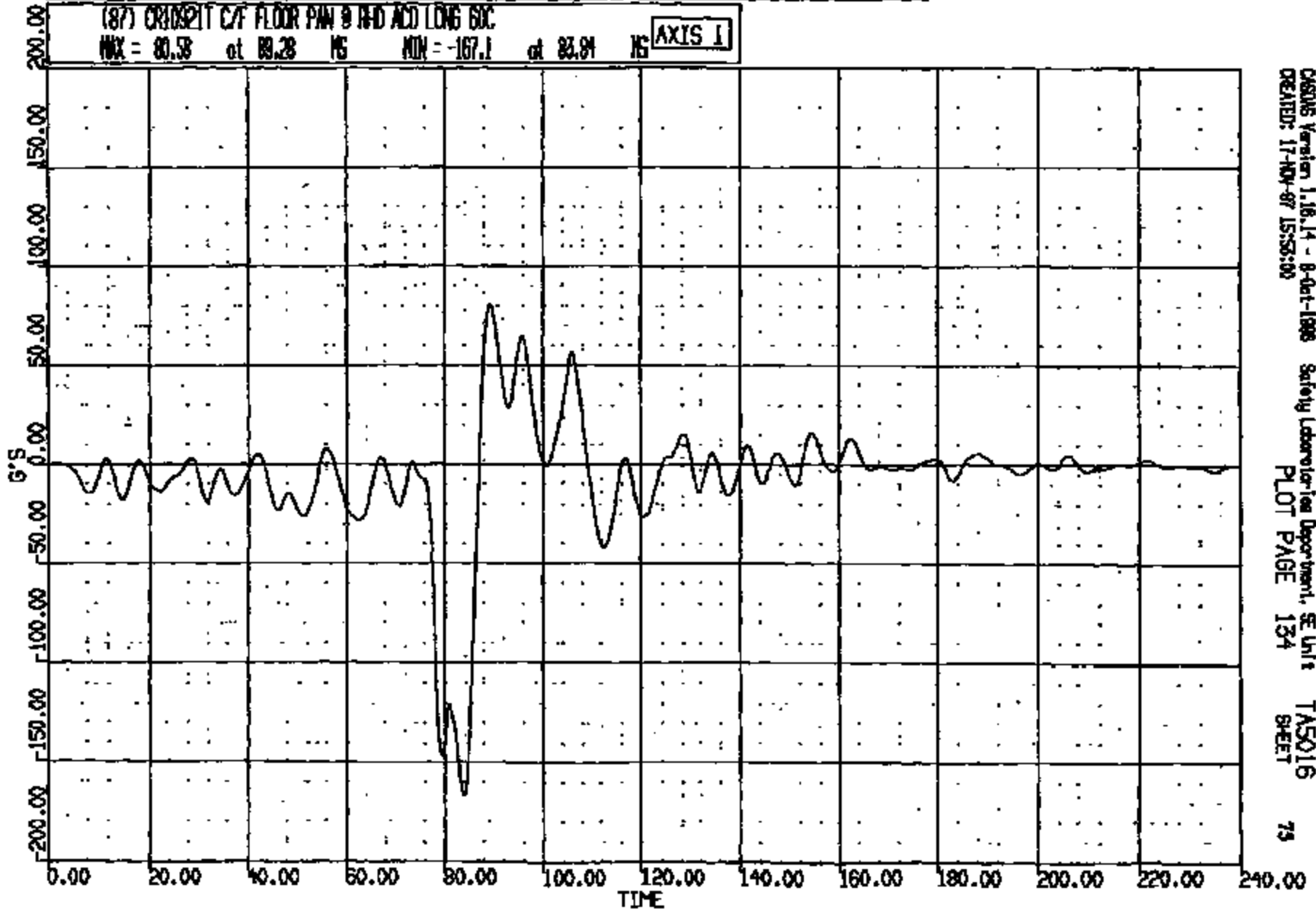
CRTS 0010921

CR R: 10921 TO: T45016 DATE: 971117 14:41:53  
D: 188

(87) CR10921 C/F FLOOR PAN 9 H-D ACID LONG SOC

MAX = 80.58 at 89.28 MS MIN = -167.1 at 83.84 MS

AXIS 1



CRS Version 1.18.14 - 8-Oct-1998  
CREATED: 17-NOV-97 15:53:00

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PLOT PAGE 134

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CRIS 0010921

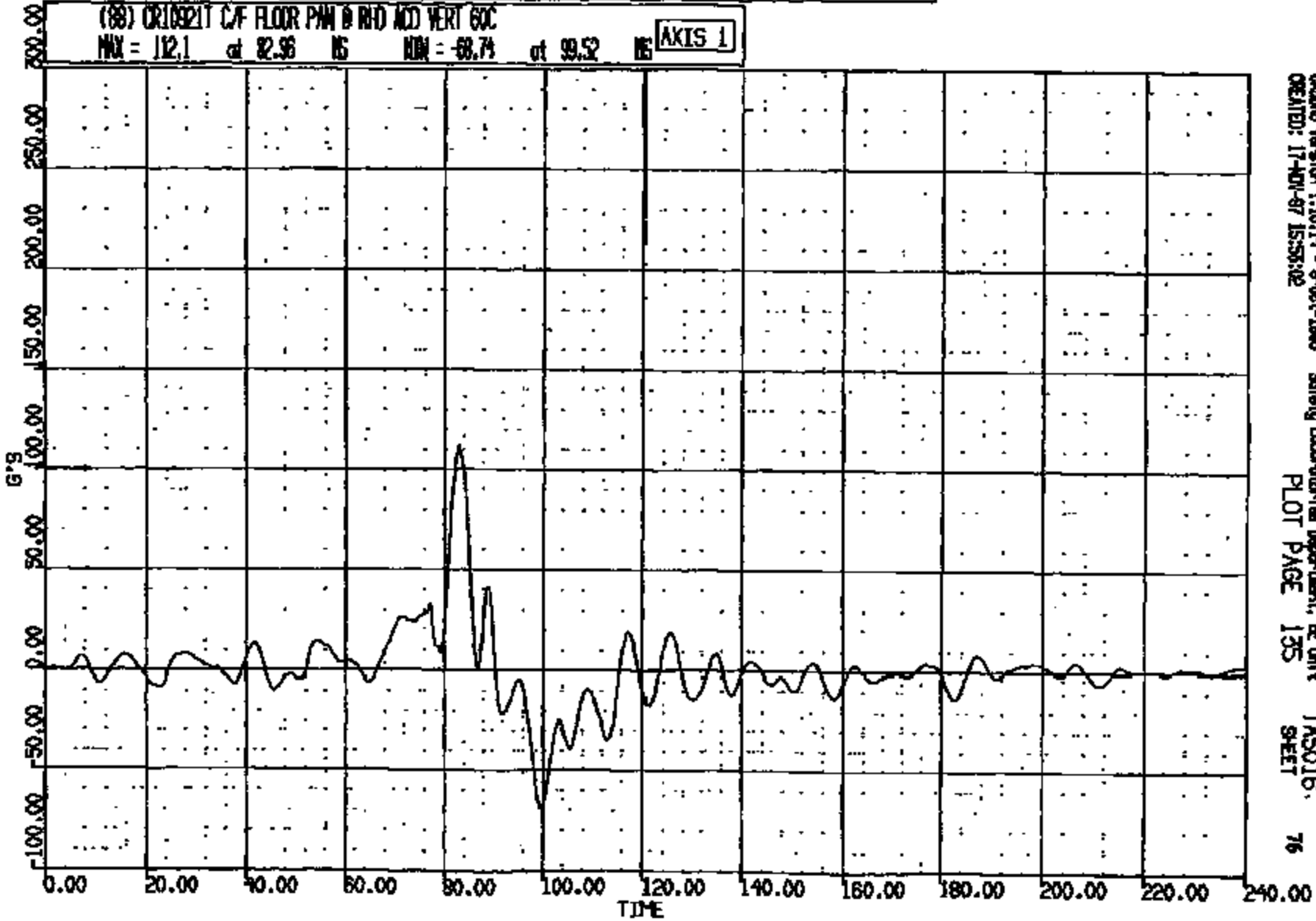
OP R: 10921 TO: TAO16 DATE: 871117 14:41:58

D-100

(88) CR10921T C/F FLOOR P/W @ RND ACC VERT 60C

MAX = 112.1 at 82.96 IS MIN = -68.74 at 99.52 IS

AXIS 1



CASMS Version 1.18.14 - 8-01-1988  
CREATED: 17-NOV-87 15:53:02

Safety Laboratories Department, EE Unit  
PLOT PAGE 135

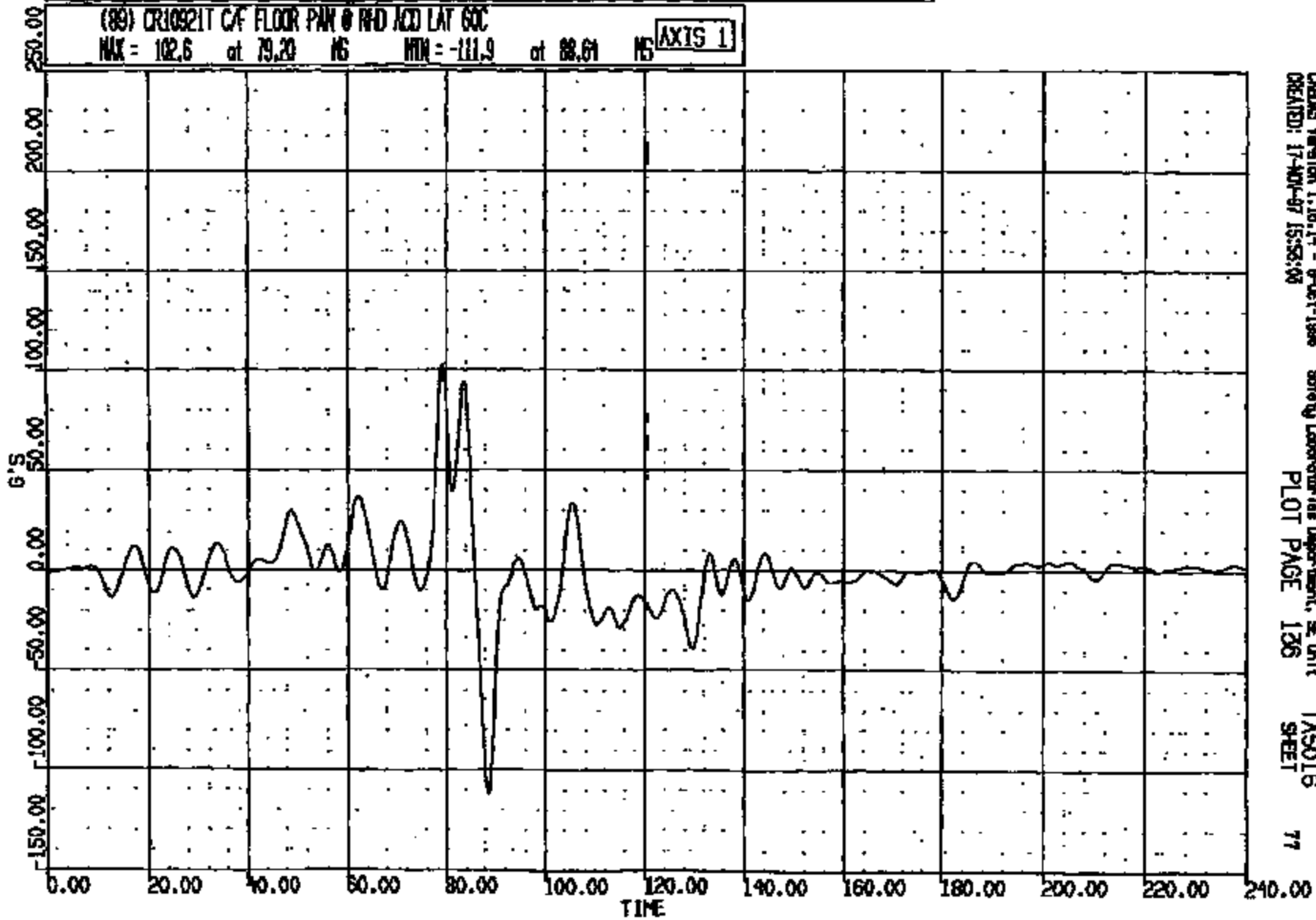
TAO16,  
76  
SHEET

CRTS 0010921

007 19921 TO: T45016 DATE: 971117 14:41:53  
-199

(89) CR10921T C/F FLOOR PAN @ RFD ACD LAT 60C  
MAX = 102.6 at 79.20 MS MIN = -111.9 at 88.61 MS

AXIS 1



CHENAS Version 1.18.14 - 0-0-1-1998  
CREATED: 17-NOV-97 15:58:00

Safety Laboratories Department, SE Unit  
PLOT PAGE 136

T45016  
SHEET

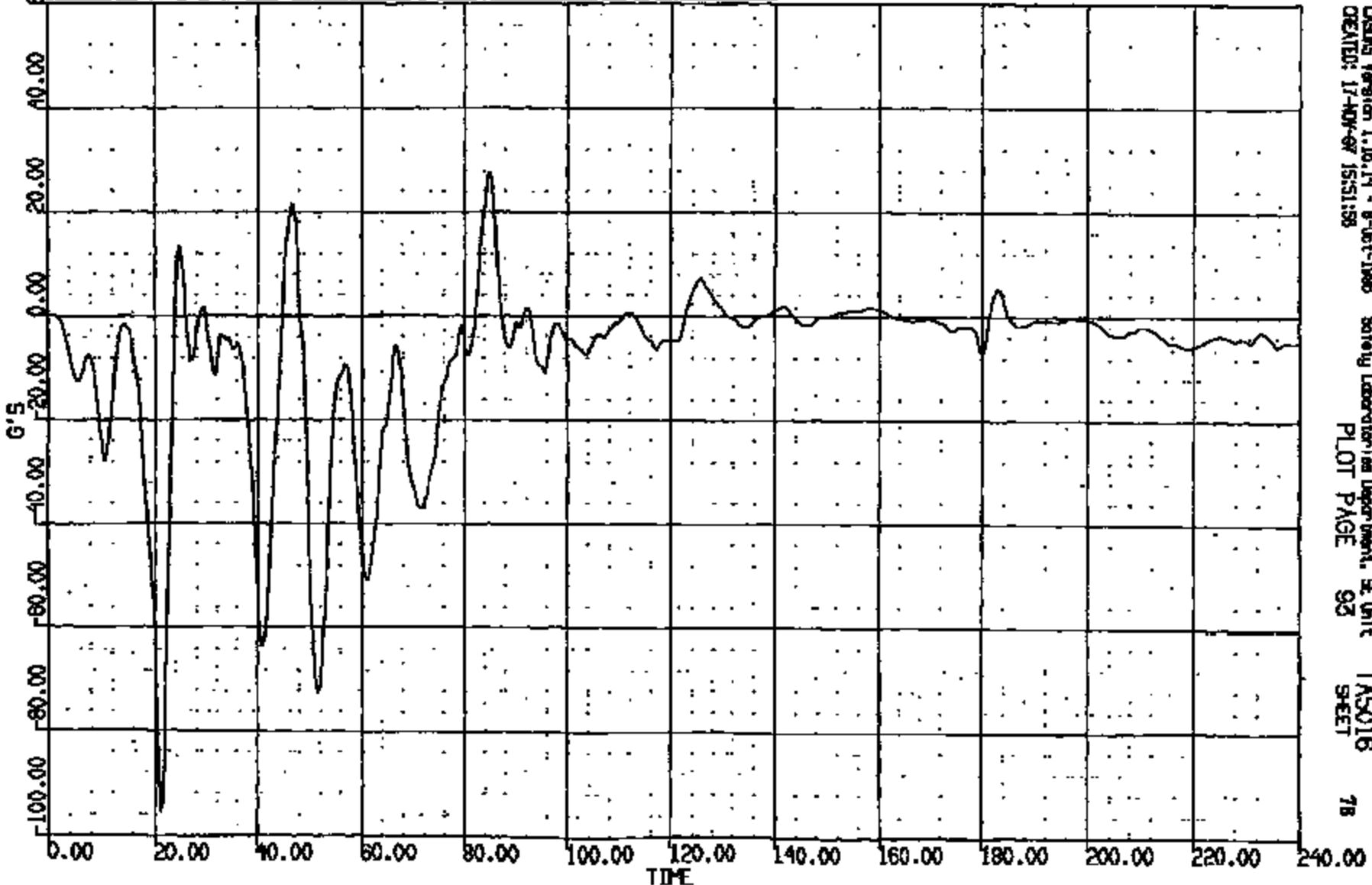
77

CRTS 0010921

CR R: 10921 TO: TAS016 DATE: 971117 14:41:53  
D-188

(46) CR10921T L/RAD LONG 60C  
MAX = 27.49 at 94.96 MS MIN = -95.82 at 21.29 MS

AXIS 1



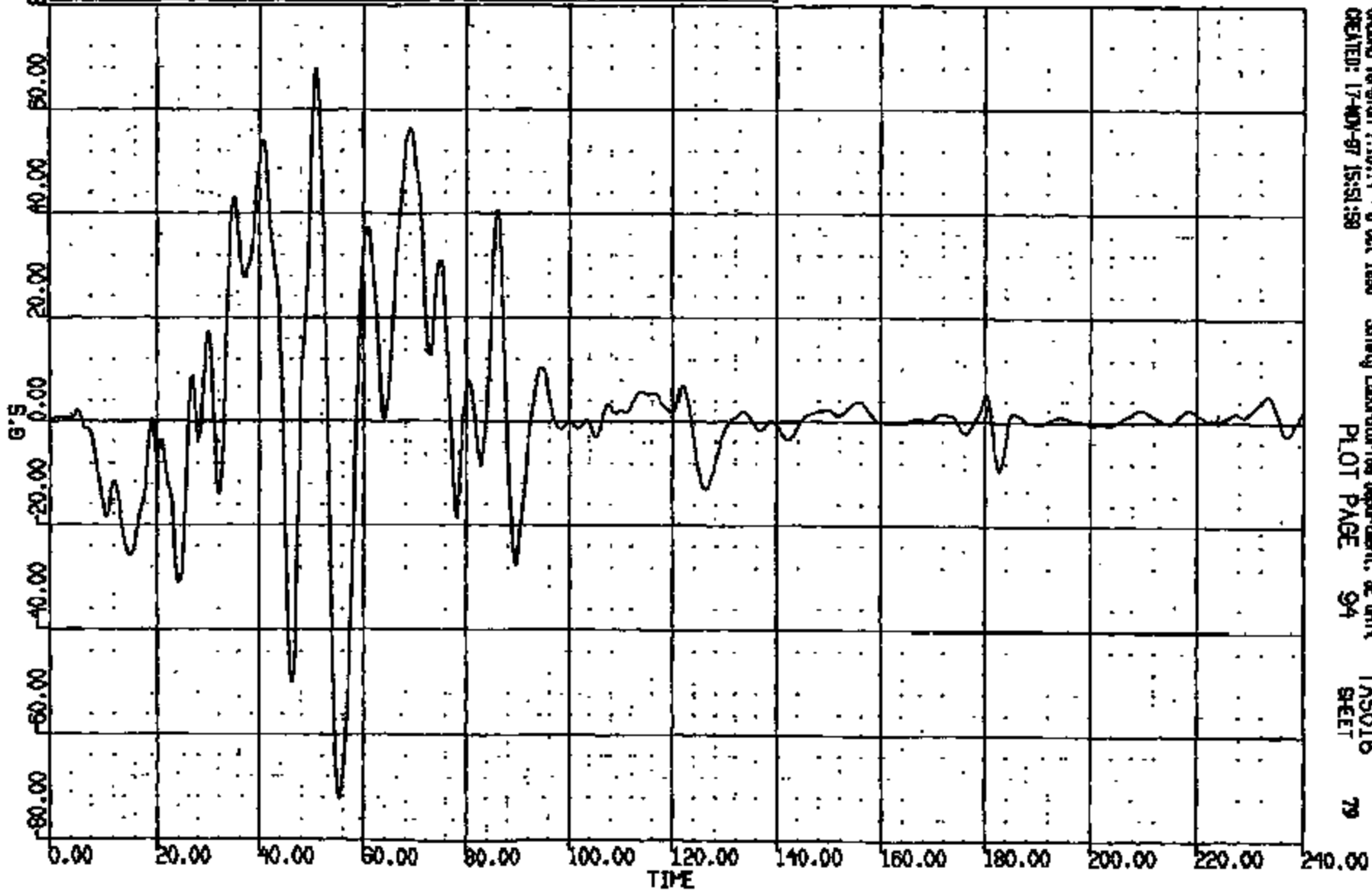
CASINS Version 1.16.14 - 8-01-1998 Safety Laboratory Department, SE Unit  
CREATED: 17-NOV-97 15:51:58  
PLOT PAGE 93  
TAS016  
SHEET 78

CRTS 0010921

CR: R: 10921 TO: T5016 DATE: 971117 14:41:55  
01-188

(47) CR10921T L/RND WERT 60C  
MAX = 67.70 at 53.86 MS MIN = -72.28 at 55.28 MS

AXIS 1



CASUS Version 1.18.14 - 8-Oct-1999  
CREATED: 17-NOV-97 15:51:58

Safety Laboratory Department, BE Unit  
PLOT PAGE 94

T5016  
SHEET

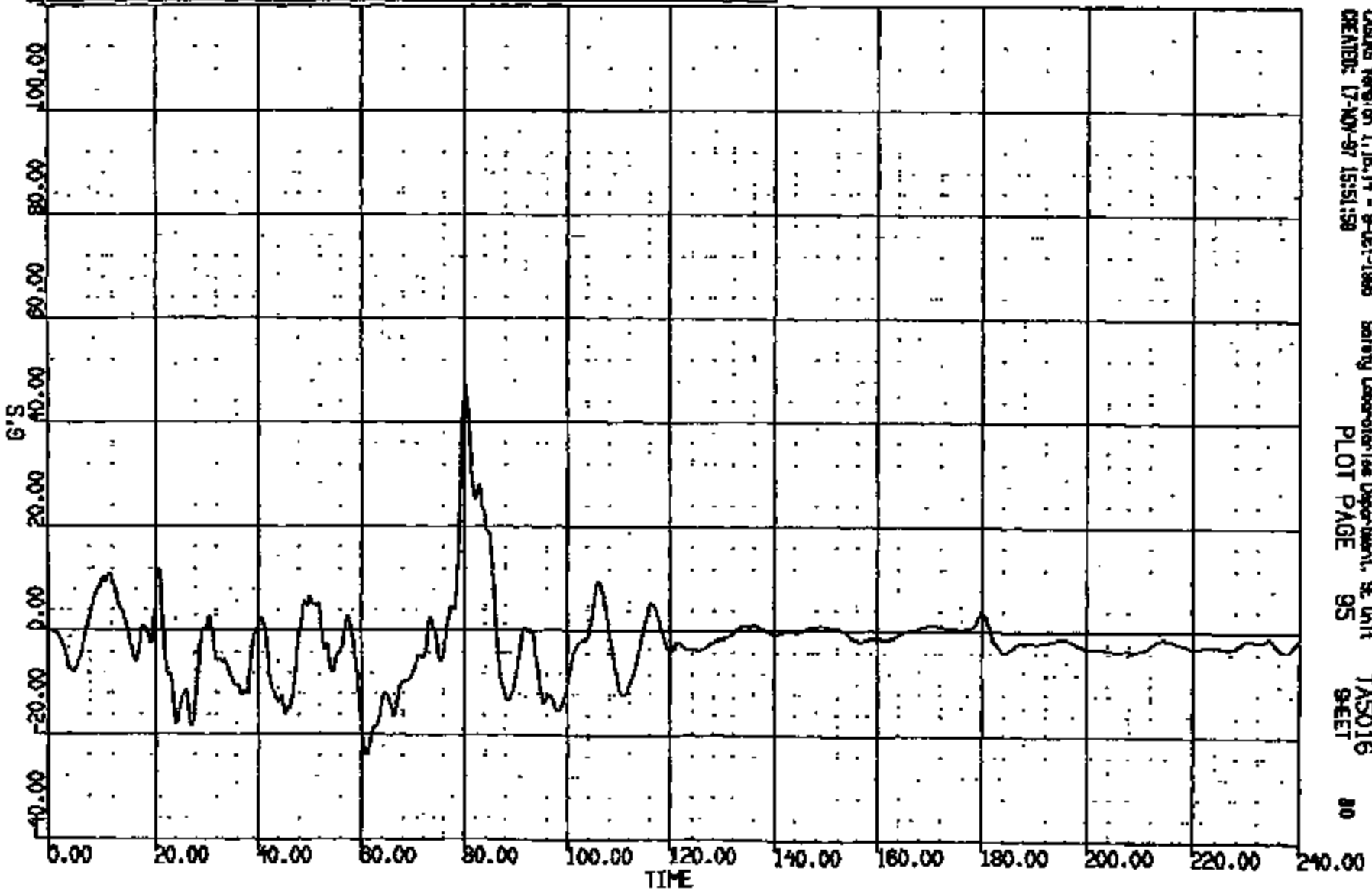
79

CRIS 0010921

CR R: 10921 TO: TAS016 DATE: 971117 14:41:55  
0-160

(48) CR10921T L/RAD LAT 60C  
MAX = 47.30 at 80.32 NS MIN = -21.02 at 61.04 NS

AXIS 1



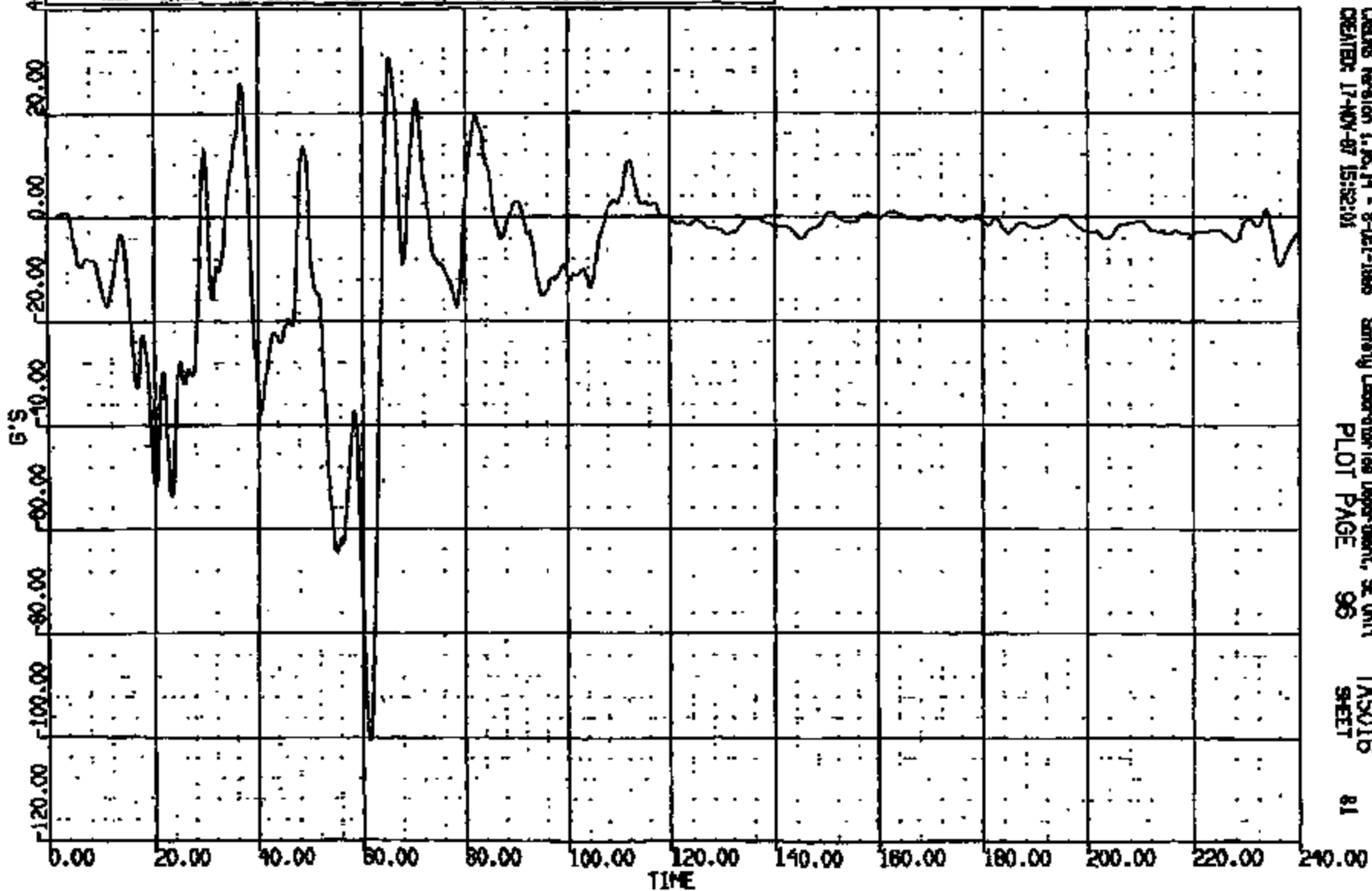
CASYS Version 1.18.14 - 9-01-1998 Safety Laboratory/see Department, SE Unit  
CREATED: 17-NOV-97 15:51:59 PLOT PAGE 95 SHEET 80

CRTS 0010921



CR R: 10921 TC: TAS016 DATE: 971117 19:41:55  
0-198

(49) CR10921 C/RAD LONG BOC  
MAX = 20.57 at 15.41 MS MIN = -100.6 at 61.52 MS **AXIS 1**



CRS016 Version 1.06.14 - 8-Oct-1998  
CREATED: 17-NOV-97 15:32:01

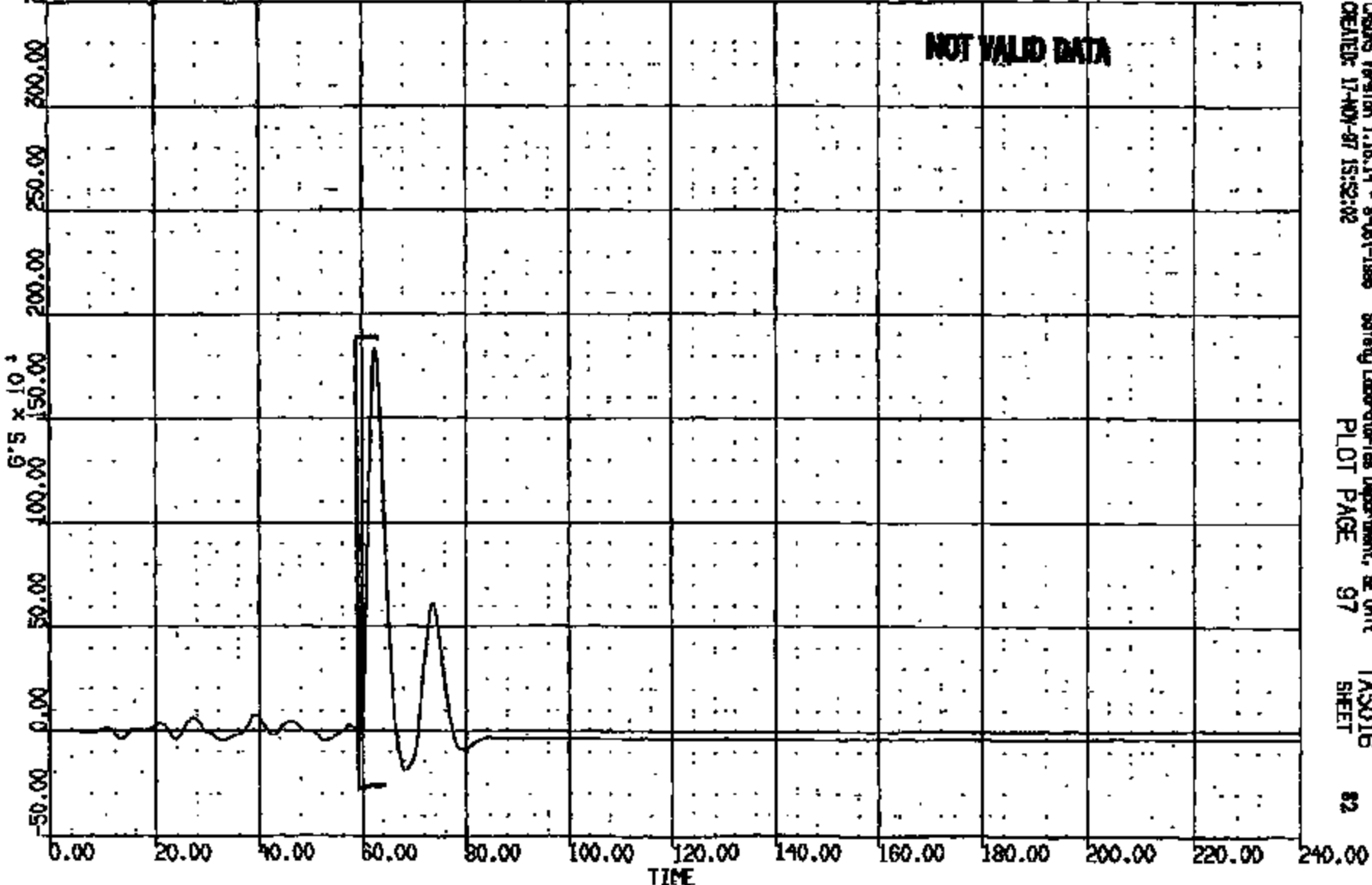
Safety Laboratories Department, SE Unit  
PLOT PAGE 96

TAS016  
SHEET 81

CRS016 0010921

CR R: 10921 TO: T5016 DATE: 871117 14:41:58  
D-188

\* (50) CR10921 C/RNO VERT GOC  
MAX = 180.0 at 62.04 MS MIN = -180.2 at 68.32 MS AXIS 1  
ANOMALY KEY:  
\* - Ribbond data exceeded full scale  
# - >1 percent offset of T-zero



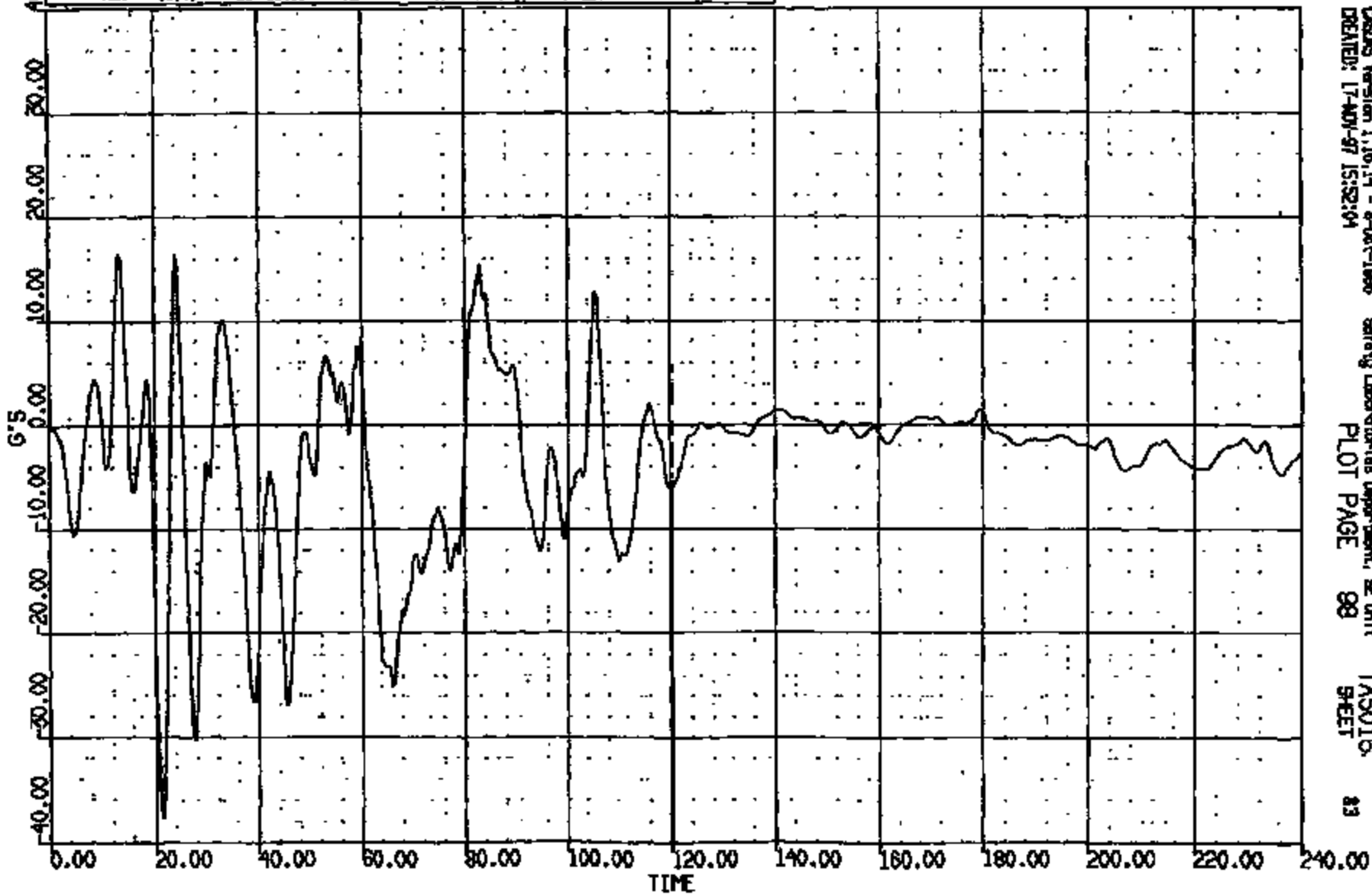
CRSIS Version 1.18.14 - 8-06-1988 Safety Laboratories Department, SE Unit T5016  
CREATED: 17-NOV-87 15:52:02 PLOT PAGE 97 SHEET 82

CRIS 0010921

CIR R: 10021 TO: TASO18 DATE: 971117 14:41:53  
U-198

(51) CR109211 C/RAD LAT 60C  
MAX = 16.46 at 13.00 Y6 MIN = -37.67 at 21.41 Y5

AXIS 1



CASING Version 1.16.14 - 8-Oct-1996  
DRAINED: 17-NOV-97 15:52:04

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PLOT PAGE 98

TASO18  
SHEET 83

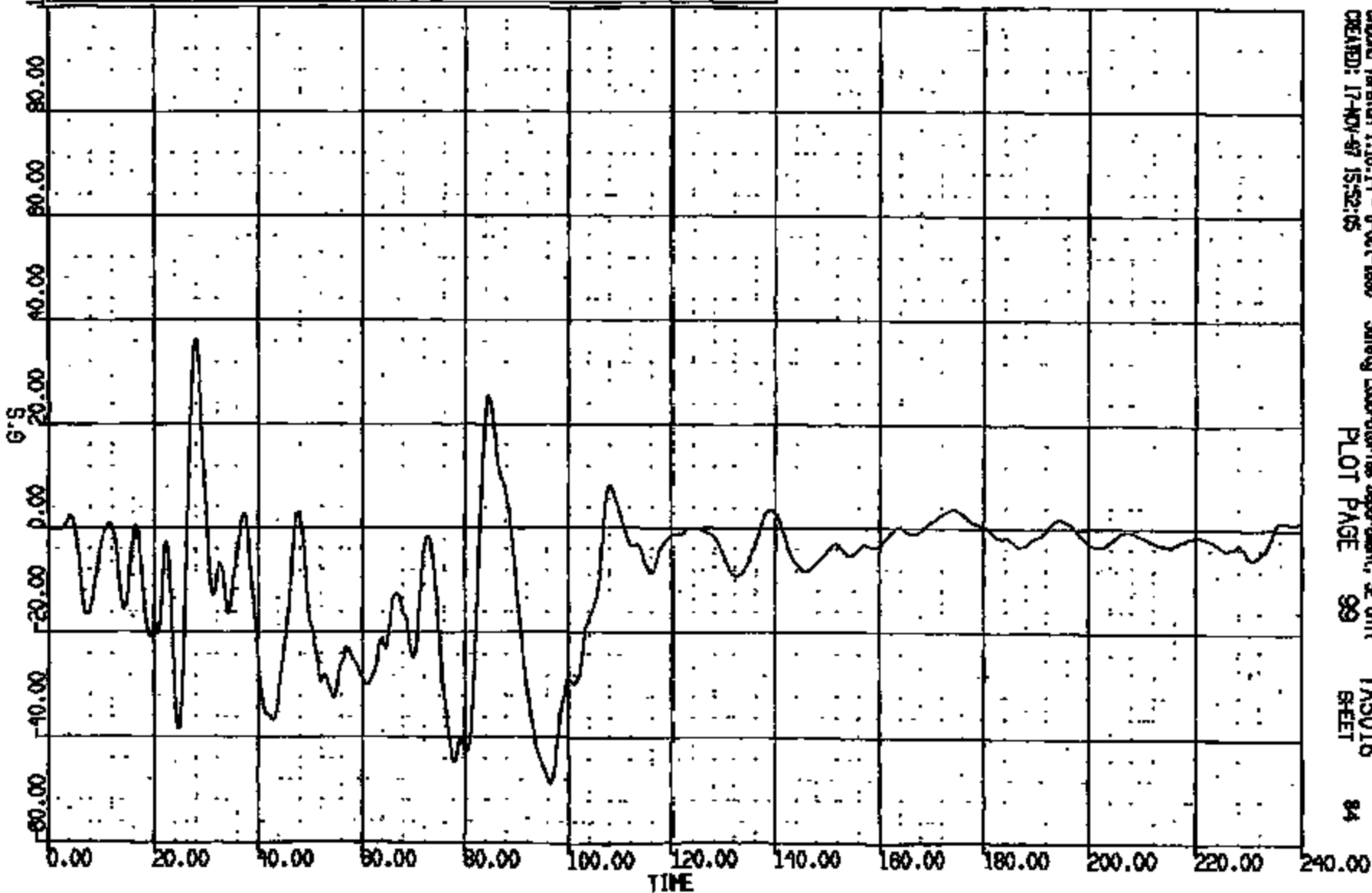
CRTS 0010921

CR R: 10921 TO: T45016 DATE: 871117 14:41:58  
D-188

(52) CR10921 R/RWD LONG GDC

MAX = 35.98 at 27.92 MS MIN = -49.77 at 95.56 MS

AXIS 1



CASMG Version 1.16.14 - 8-Oct-1988  
CREATED: 17-NOV-87 15:52:05

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PLOT PAGE 99

T45016  
SHEET

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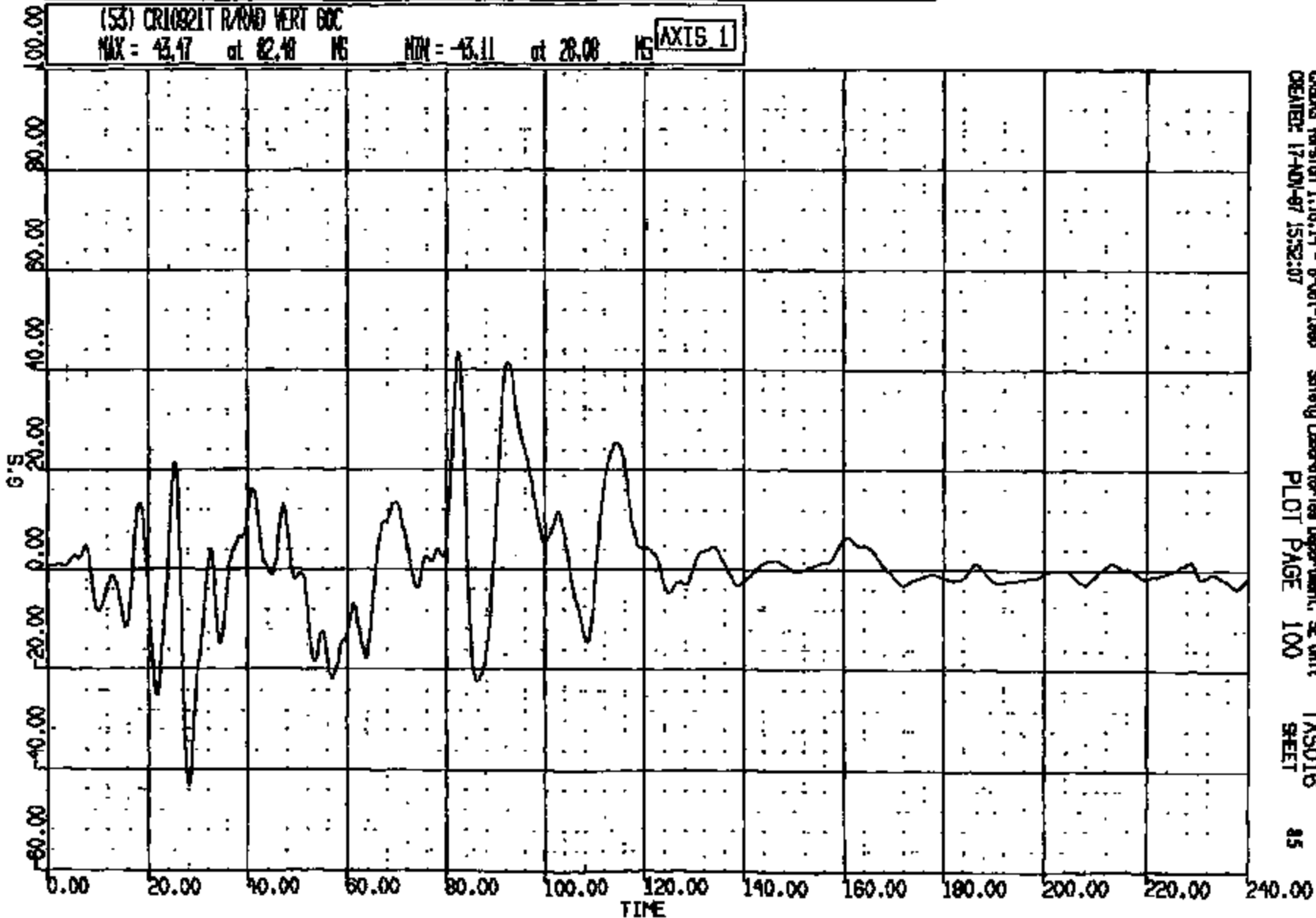
CRTS 0010921

CR R: 10921 TO: TAS016 DATE: 871117 14:41:53  
D-188

(53) CR10921T RAND VERT GOC

MAX = 43.47 at 82.40 MS MIN = -43.11 at 28.00 MS

AXIS 1



CHMS Version 1.18.14 - 8-04-1986  
CREATED: 17-NOV-87 15:52:07

Safety Laboratories Department, SE Unit  
PLOT PAGE 100

TAS016  
SHEET

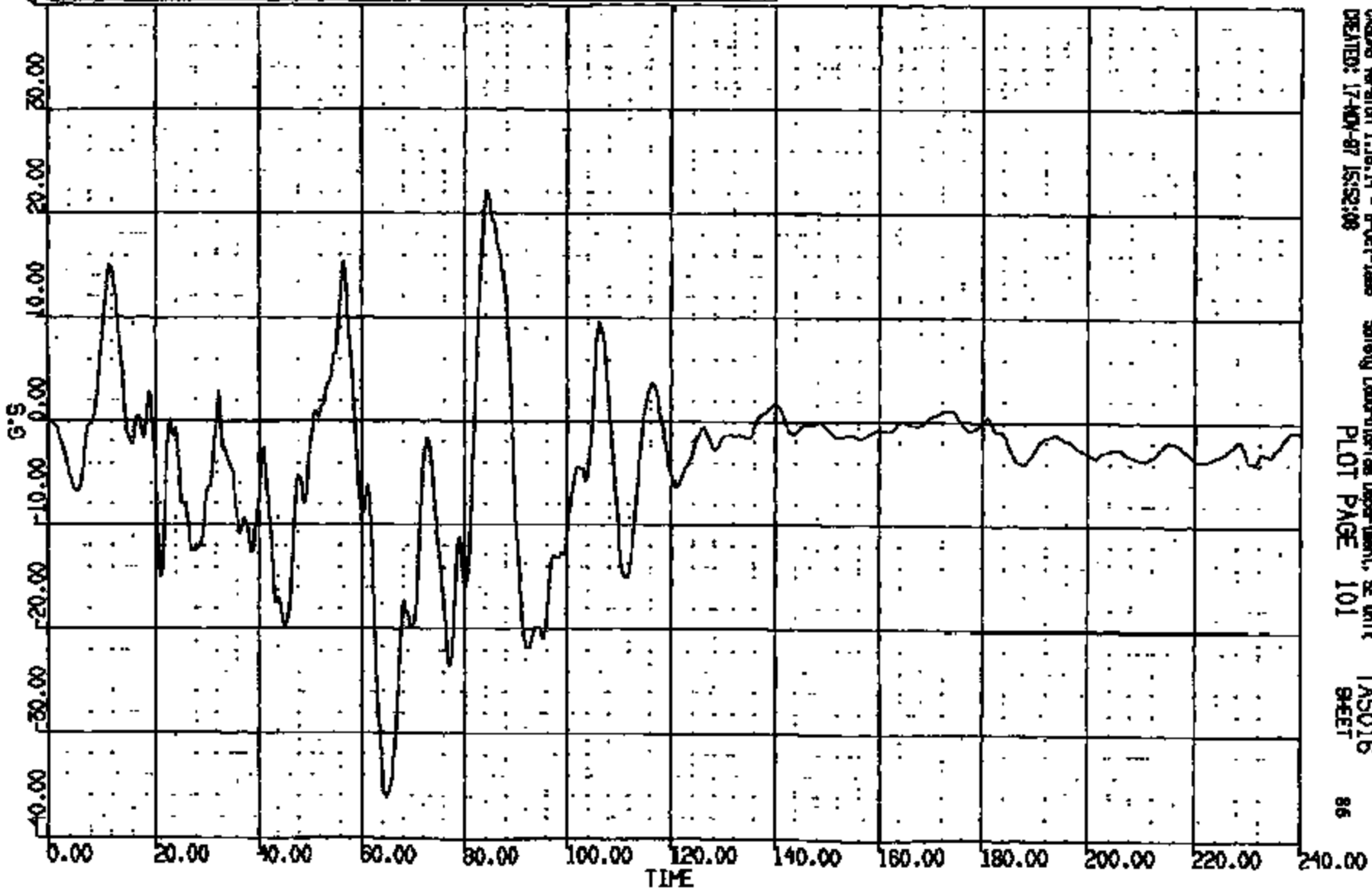
85

CRTS 0010921

CR R: 10921 TO: TASSIS DATE: 871117 14:41:53  
0-198

(54) CR10921T R/RND LAT GDC  
MAX = 22.06 at 81.16 MS MIN = -36.11 at 81.72 MS

AXIS 1



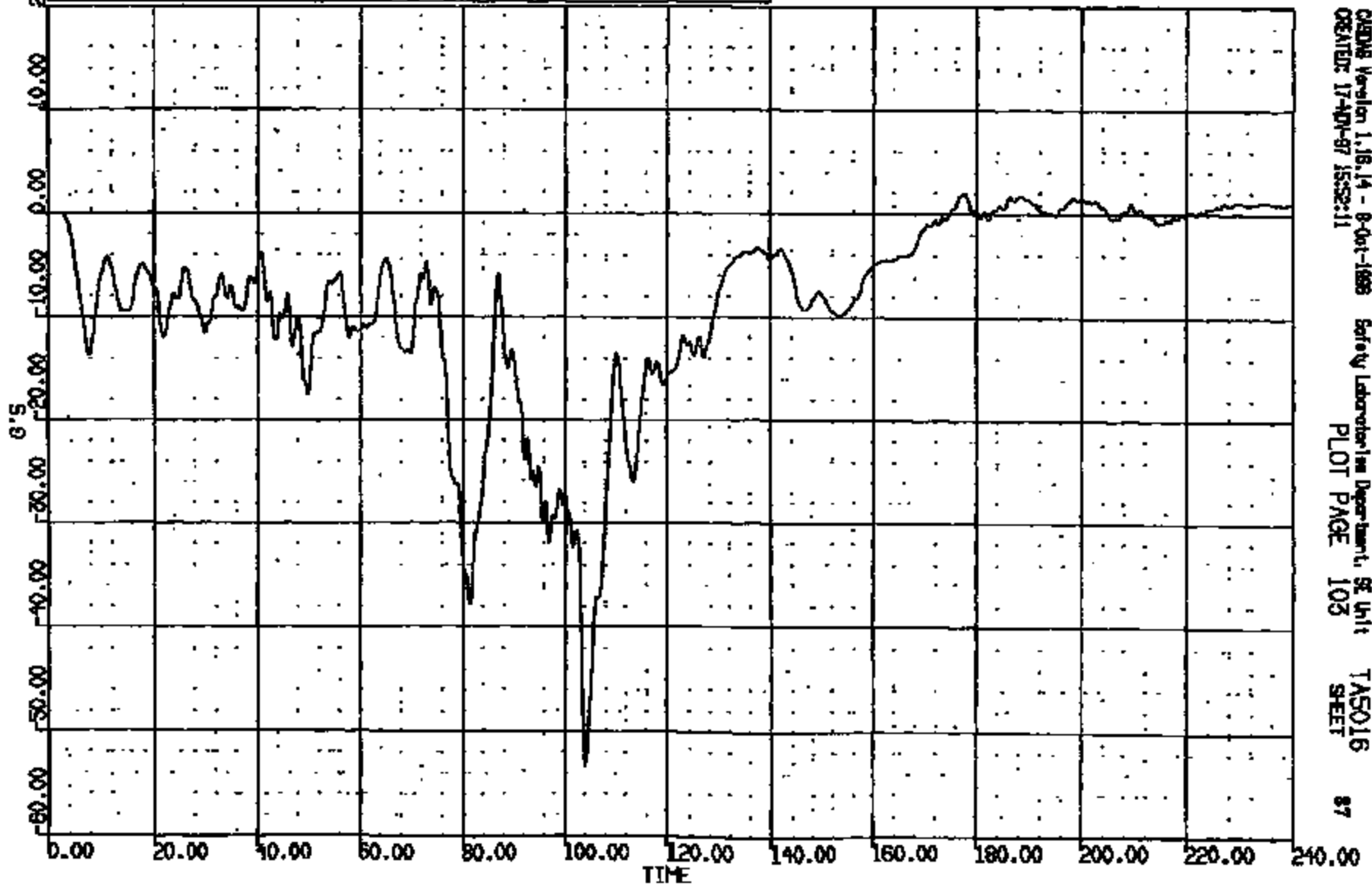
CASMS Version 1.16.14 - 8-Oct-1988 Safety Laboratories Department, SE Unit TASSIS 86  
CREATED: 17-NOV-87 15:52:08 PLOT PAGE 101 SHEET

CRTS 0010921

DIR R: 10921 TO: TAS016 DATE: 871117 14:41:58  
01188

(56) CR10921 LAF FLOOR PAN @ #1 WBR CNTR LONG GOC  
MAX = 1.976 at 177.8 MS MIN = -53.18 at 104.2 MS

AXIS 1



CR10921 LAF FLOOR PAN @ #1 WBR CNTR LONG GOC  
CREATED: 17-NOV-87 15:52:11  
Safety Laboratory Department, SE Unit  
PLOT PAGE 103  
TAS016  
87

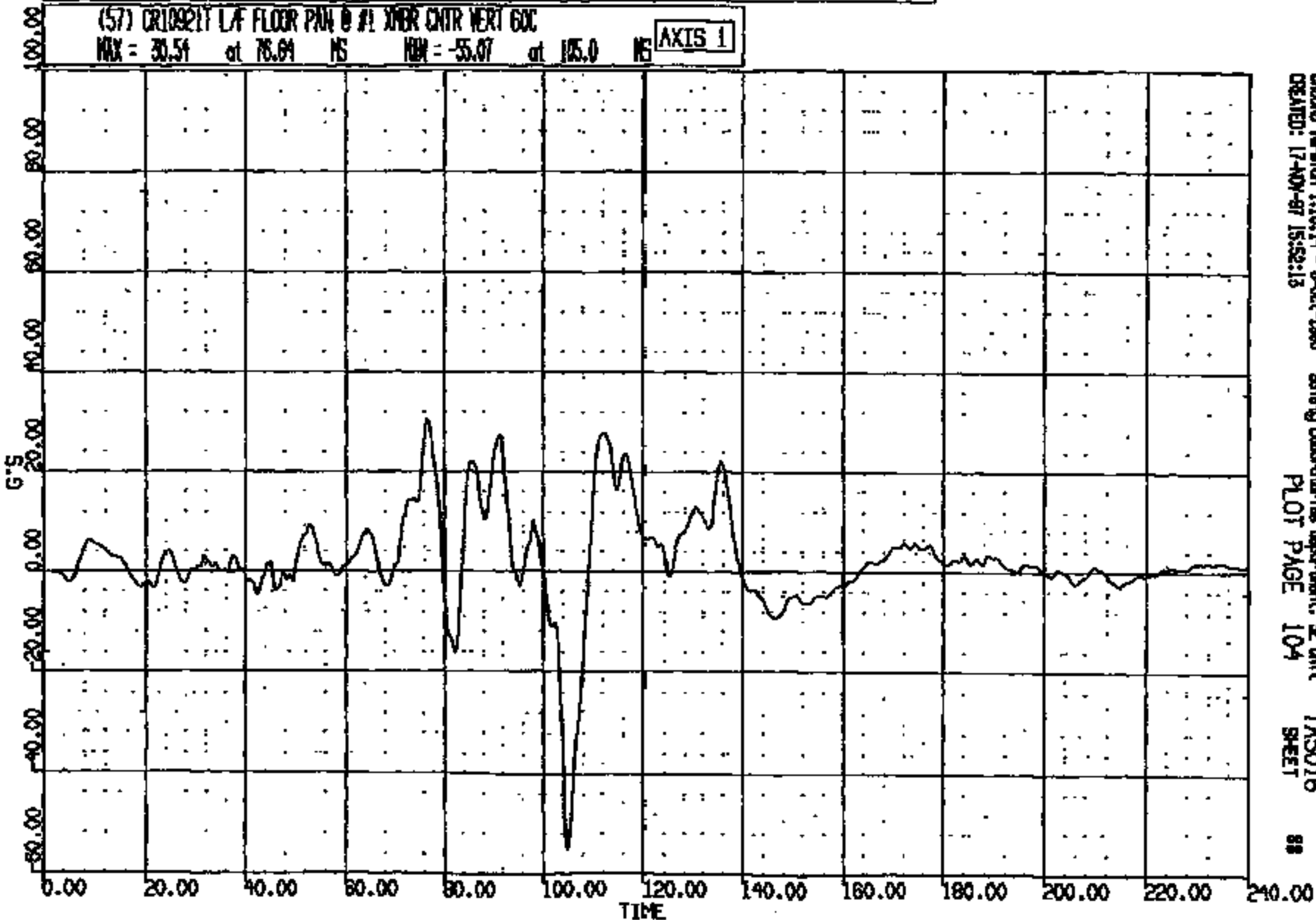
CR10921

CR R: 10921 TO: T5016 DATE: 971117 14:41:53  
D-188

(57) CR10921T L/F FLOOR PAN @ #1 XMR CNTR VERT GOC

MAX = 30.51 at 78.64 MS MIN = -55.07 at 105.0 MS

AXIS 1



CASING Version 1.16.14 - 9-Oct-1998  
CREATED: 17-NOV-97 15:52:13

Safety Laboratories Department, SE Unit  
PLOT PAGE 104

T5016  
SHEET

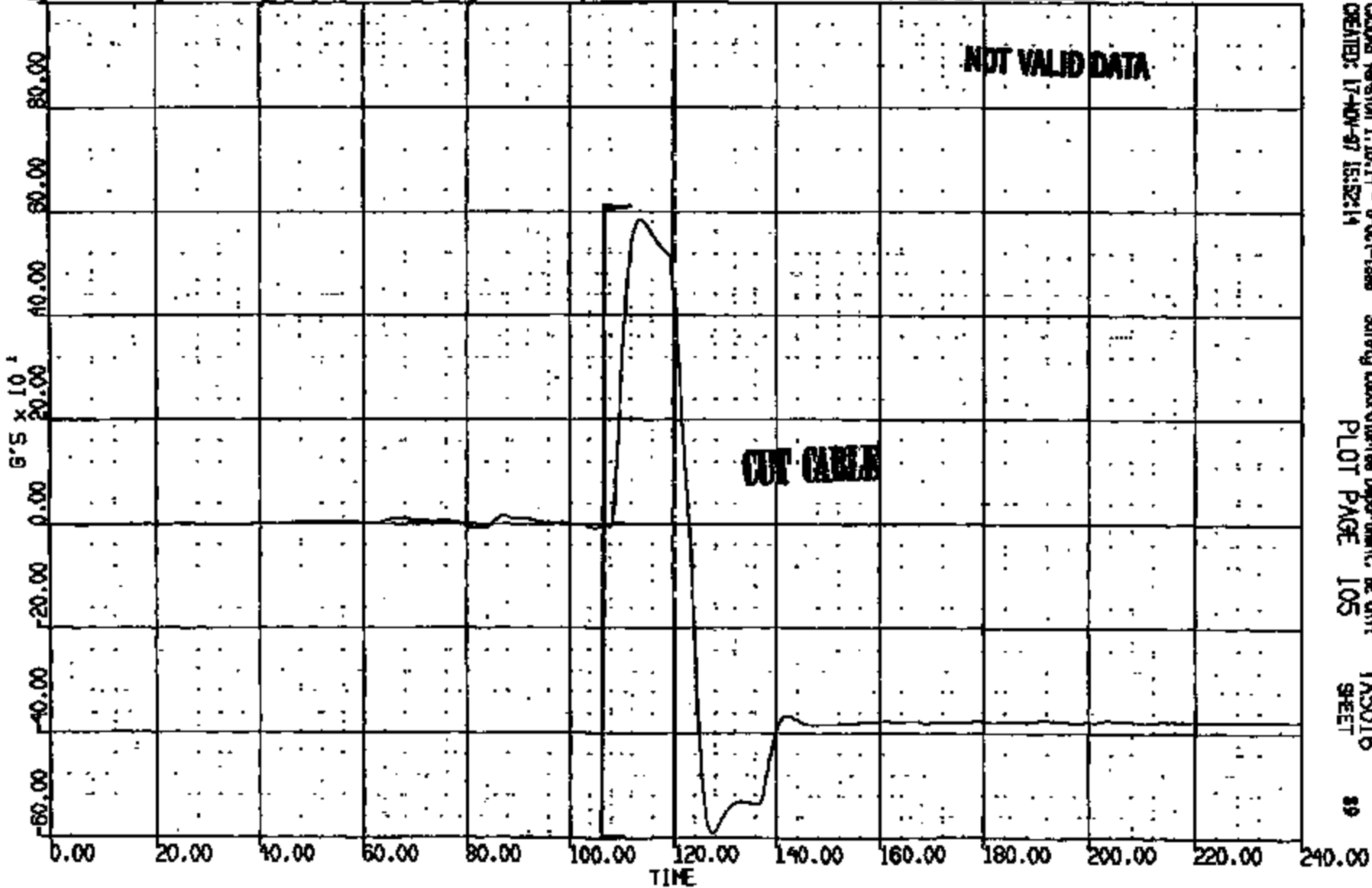
88

CRIS 0010921



DP R: 10921 TO: T5016 DATE: 971117 14:41:55  
D-180

\* (58) CR10921T L/F FLOOR PAN @ #1 WBR CNTR LAT SOC  
MAX = 504.5 at 112.8 MS MIN = -500.3 at 127.5 MS **AXIS 1**  
KEY: \* - Highend data exceeded full scale  
# - >1 percent offset at T-zero



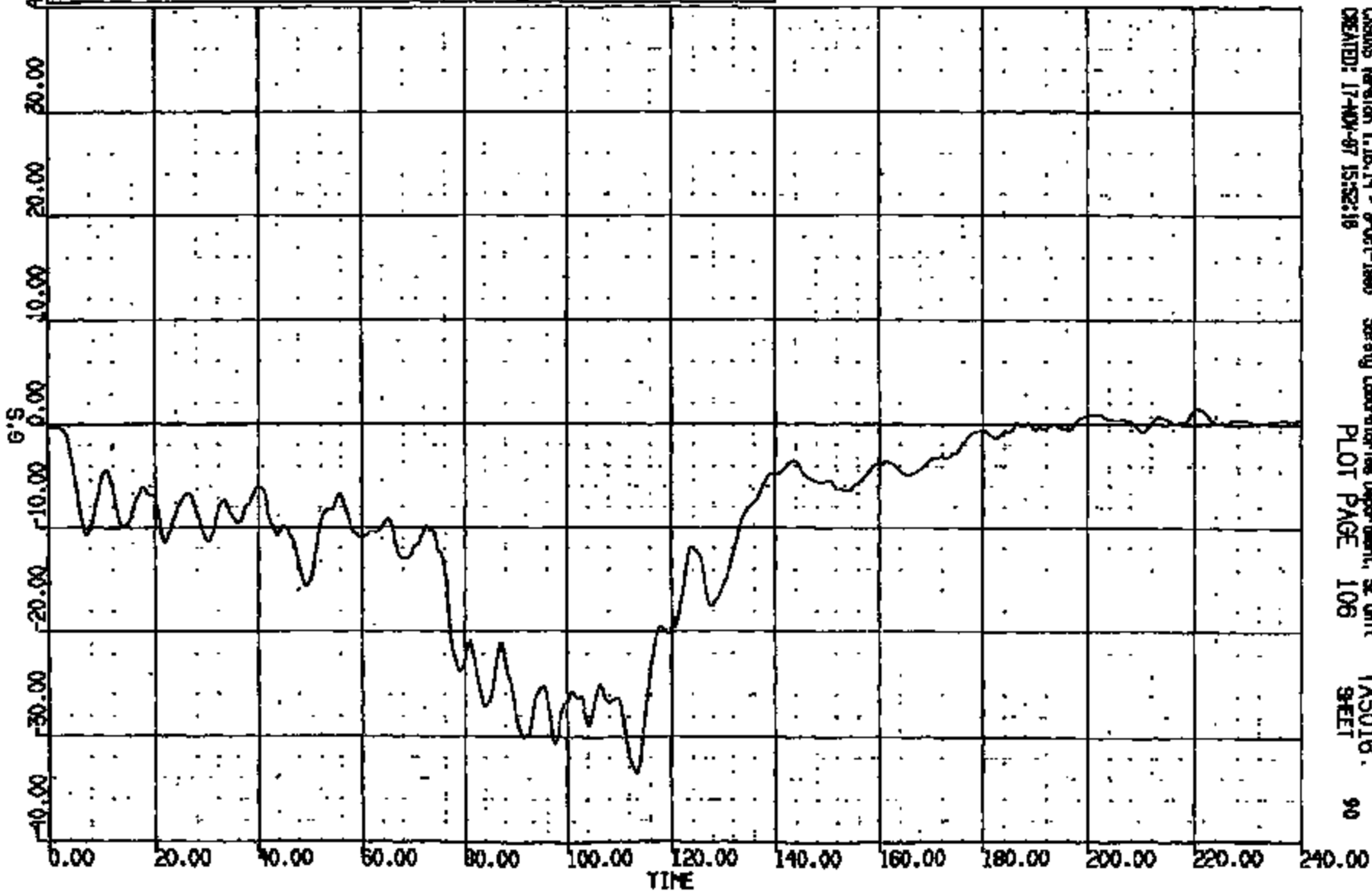
CASDS Version 1.18.14 - 8-Oct-1988 Safety Laboratories Department, SE Unit T5016  
CREATED: 17-NOV-97 15:52:14 PLOT PAGE 105 SHEET 89

CRTS 0010921

CR R: 10921 TO: TAS016 DATE: 971117 19:41:58  
0-188

(59) CR10921T L/N FLOOR PAN @ #2 WBR CTR LONG 60C  
MAX = 1.492 at 220.3 MS MIN = -33.53 at 113.5 MS

AXIS 1

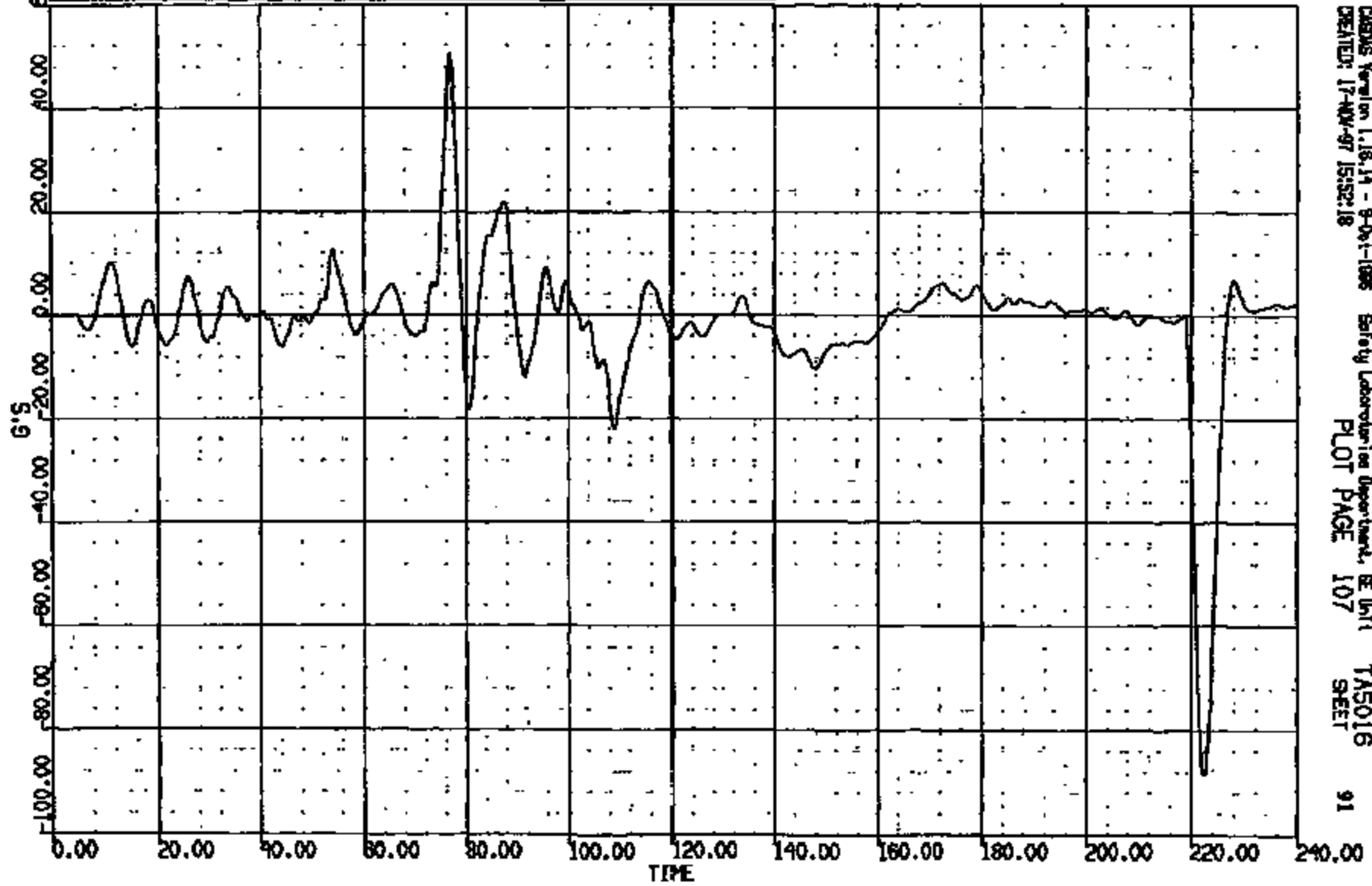


CR10921 Version 1.18.14 - 9-Oct-1998 Safety Laboratories Department, SE Unit  
CREATED: 17-MAY-97 15:52:18 PLOT PAGE 106 TAS016 . 90  
SHEET

CRTS 0010921

OP R: 10921 TO: T45016 DATE: 971117 14:41:53  
01-198

(60) CR10921T L/H FLOOR PM @ #2 XMR CNTR VERT 60C  
MAX = 50.51 at 76.80 MS MIN = -80.70 at 222.3 MS **AXIS 1**



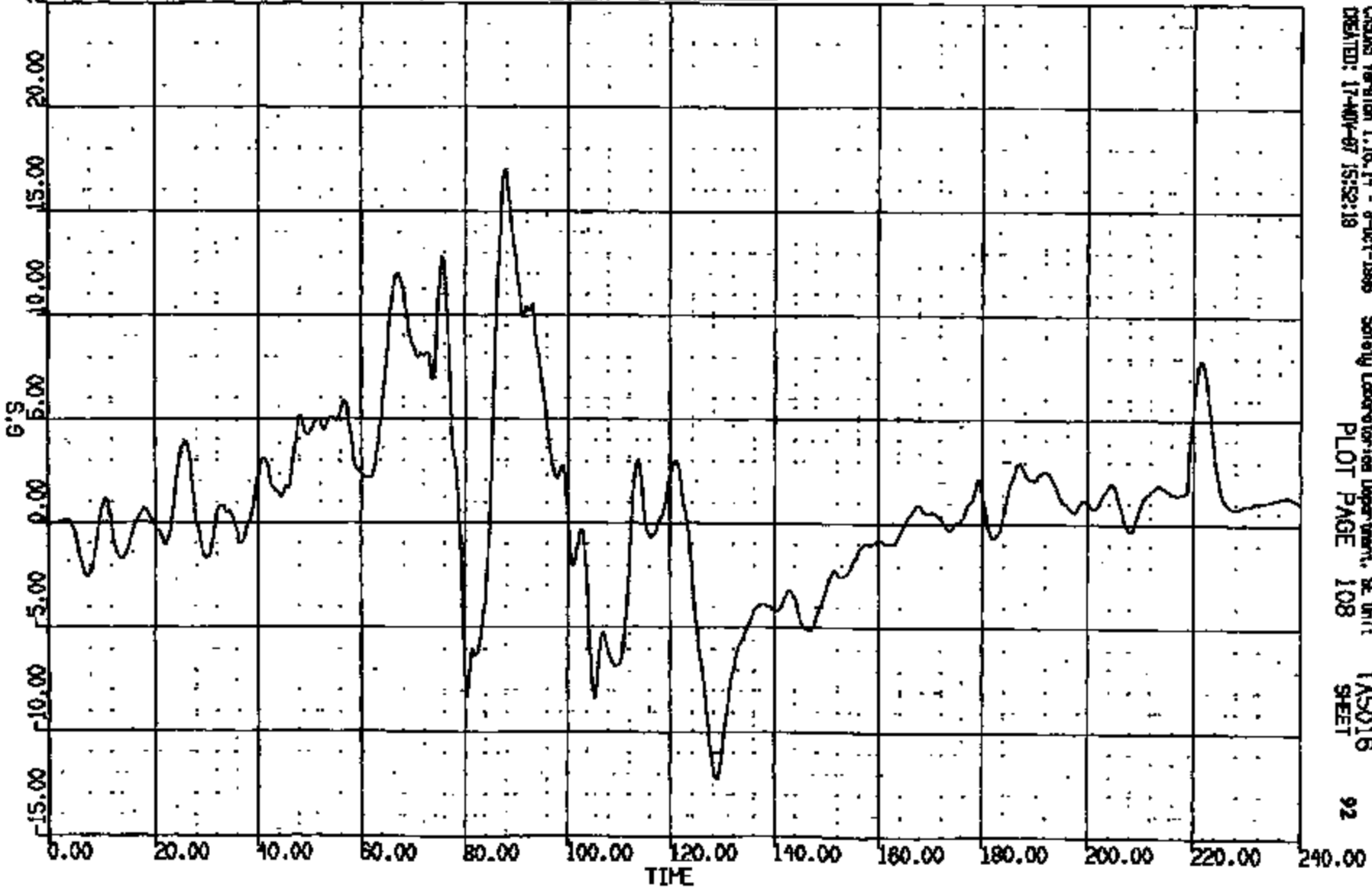
CASAS Version 1.18.14 - 9-04-1998 Safety Laboratories Department, SE Unit  
CREATED: 17-NOV-97 15:52:18  
PLOT PAGE 107 T45016  
SHEET 91

CRTS 0010921

00 1990 FROM: 10921 TO: T45016 DATE: 971117 14:41:53

(61) CR10921T L/M FLOOR P/W @ #2 OVER CNTR LAT EXC  
MAX = 16.99 at 87.76 MS MIN = -12.30 at 128.8 MS

AXIS 1



CADWIS Version 1.16.14 - 8-Oct-1998  
CREATED: 17-NOV-97 15:52:18

Safety Evaluation Department, SE Unit  
PLOT PAGE 108

T45016  
SHEET

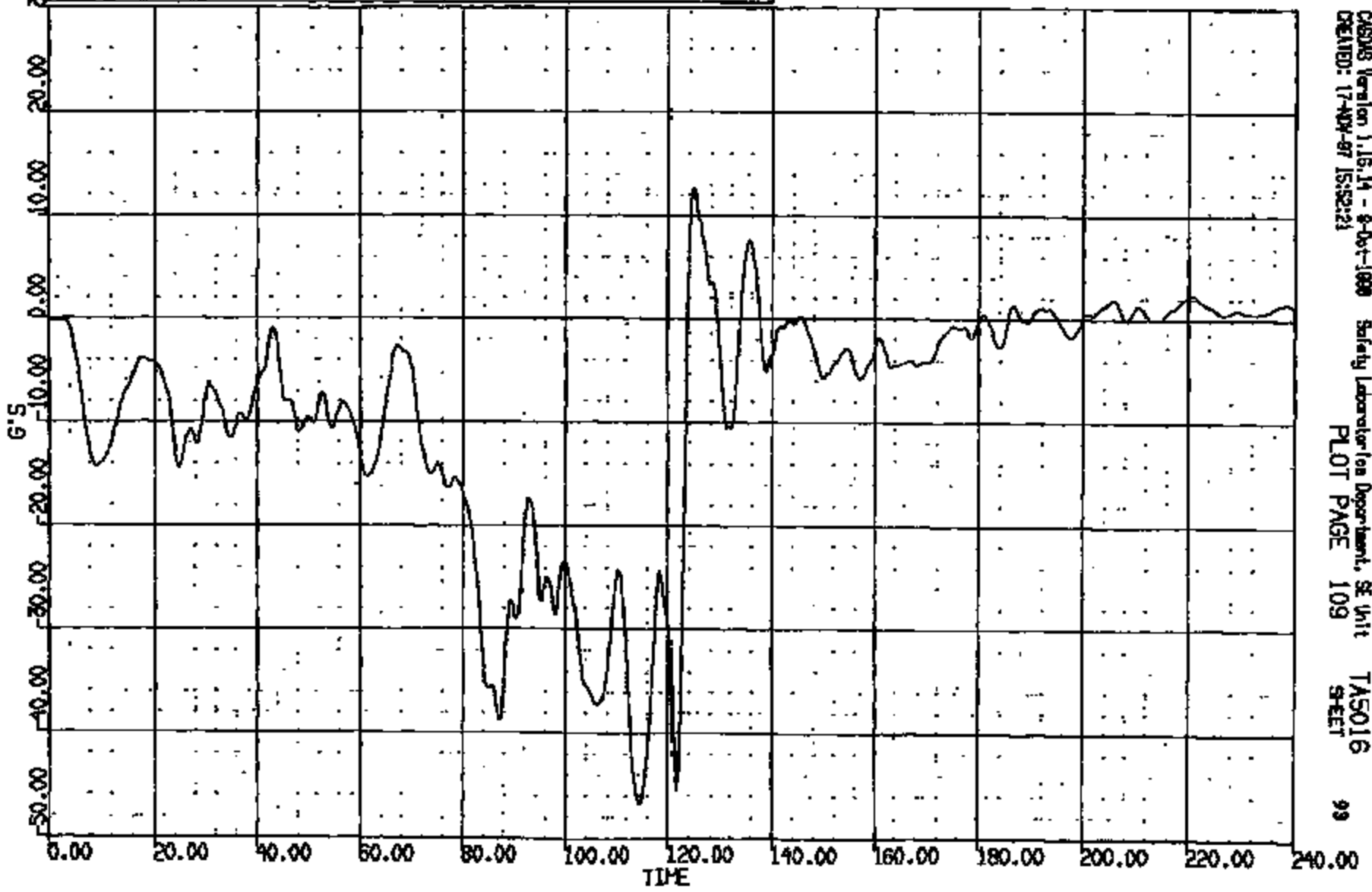
92

CRTS 0010921

DR R: 10921 TO: TAS016 DATE: 971117 14:41:53  
D-168

(62) CR10921T LA DOOR @ BEAM LONG 60C  
MAX = 12.72 at 124.8 MS MIN = -46.86 at 114.6 MS

AXIS 1

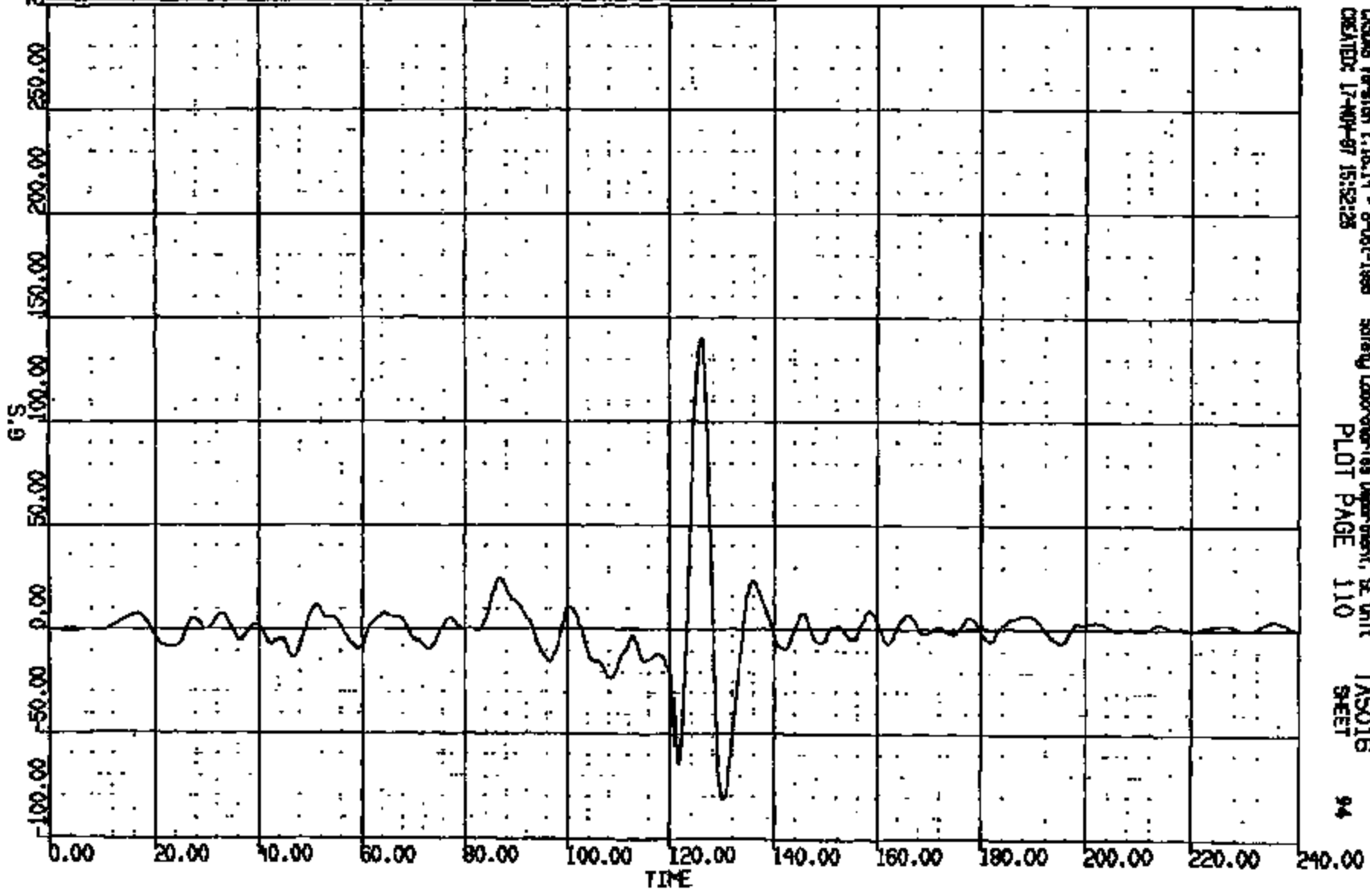


CASUS Version 1.16.14 - 8-Oct-1999 Safety Laboratory Department, SE Unit  
CREATED: 17-NOV-97 15:52:21  
PLOT PAGE 109 SHEET 99

CRTS 0010921

CR R: 10921 TO: TA5016 DATE: 971117 14:41:55  
D-188

(63) CR10921T LAF DOOR @ BEAM VERT 66C  
MAX = 140.1 at 125.8 MS MIN = -81.79 at 130.2 MS **AXIS 1**



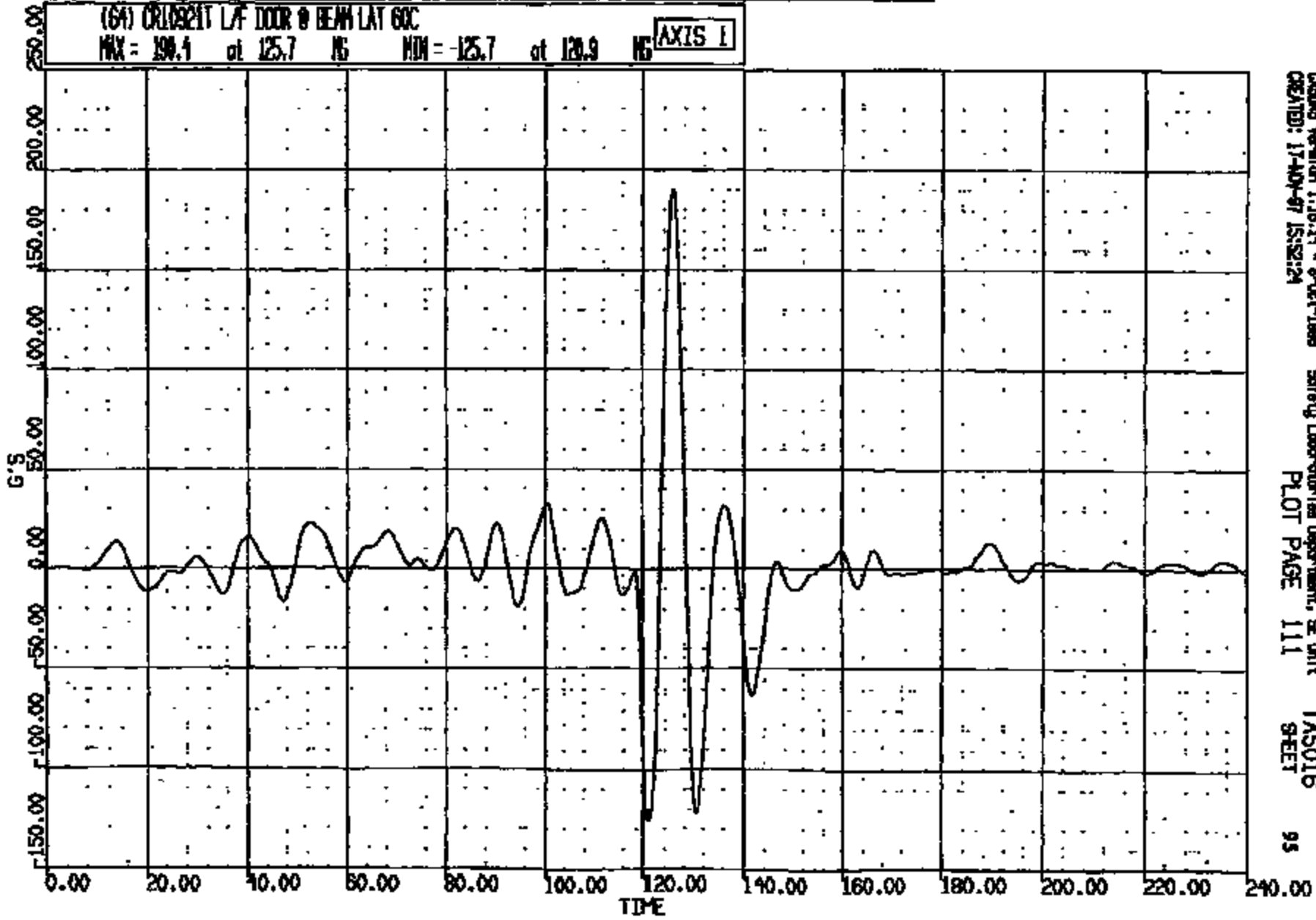
CRS08 Version 1.18.14 - 8-01-1998 Safety Laboratories Department, SE Unit  
CREATED: 17-MAY-97 15:52:28  
PLOT PAGE 110 TMS016  
SHEET 94

CRIS 0010921

CR R: 10021 TO: TAS016 DATE: 971117 14:41:53  
01-198

(64) CR10021T LAF DOOR @ BEAM LAT 60C  
MAX = 190.4 at 125.7 NS MIN = -125.7 at 120.9 NS

AXIS 1



CASING Version 1.18.14 - 8-Oct-1999  
CREATED: 17-NOV-97 15:52:24

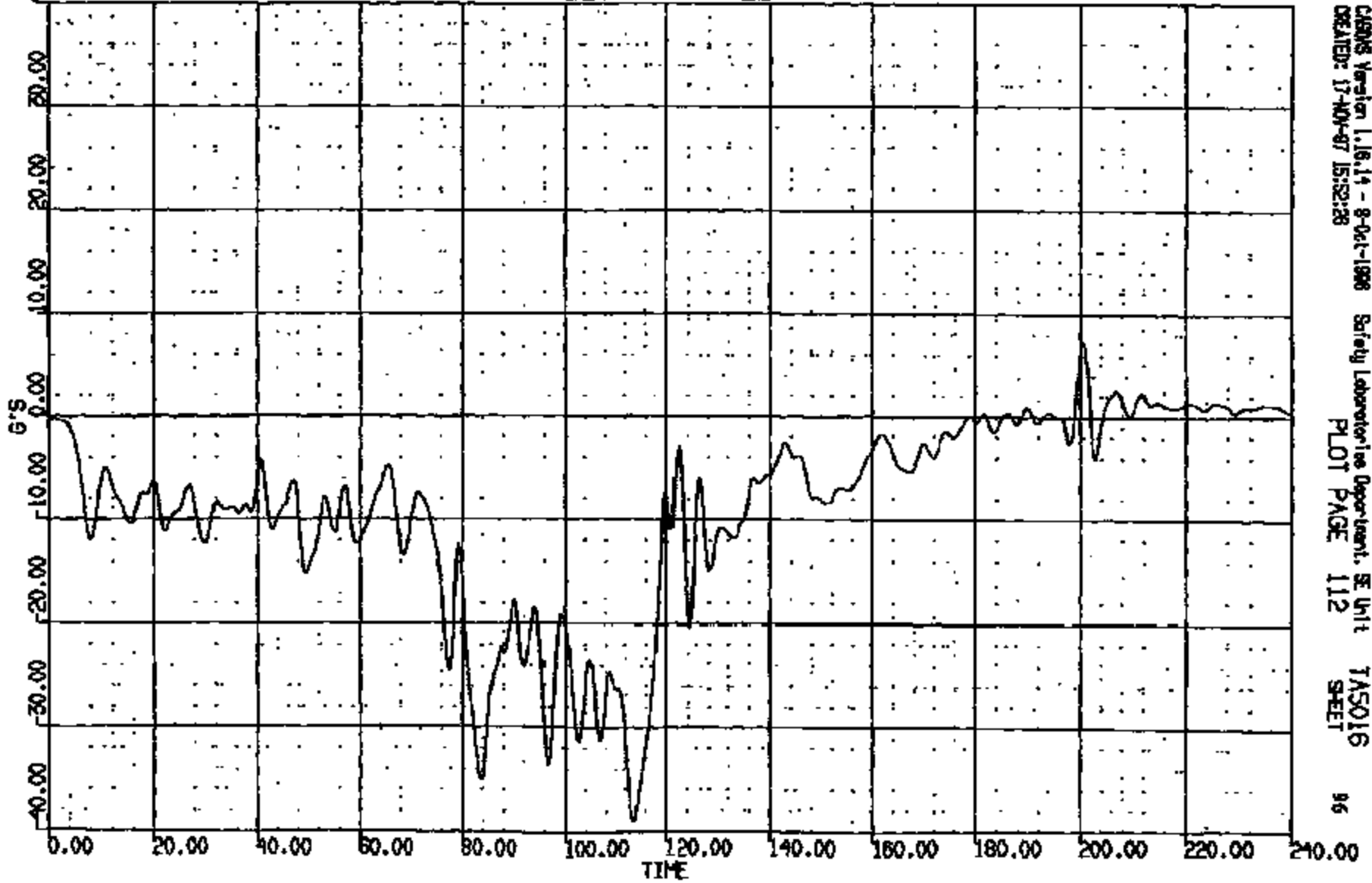
Safety Laboratories Department, SE Unit  
PLOT PAGE 111

TAS016  
SHEET

CRTS 0010921

CR: 10921 TO: T45016 DATE: 071117 14:41:53  
01-188

(65) CR10321T L/B-PLR INSIDE 0 FOR LONG 60C  
MAX = 7.313 at 200.6 MG MIN = -39.10 at 113.5 MG **AXIS 1**



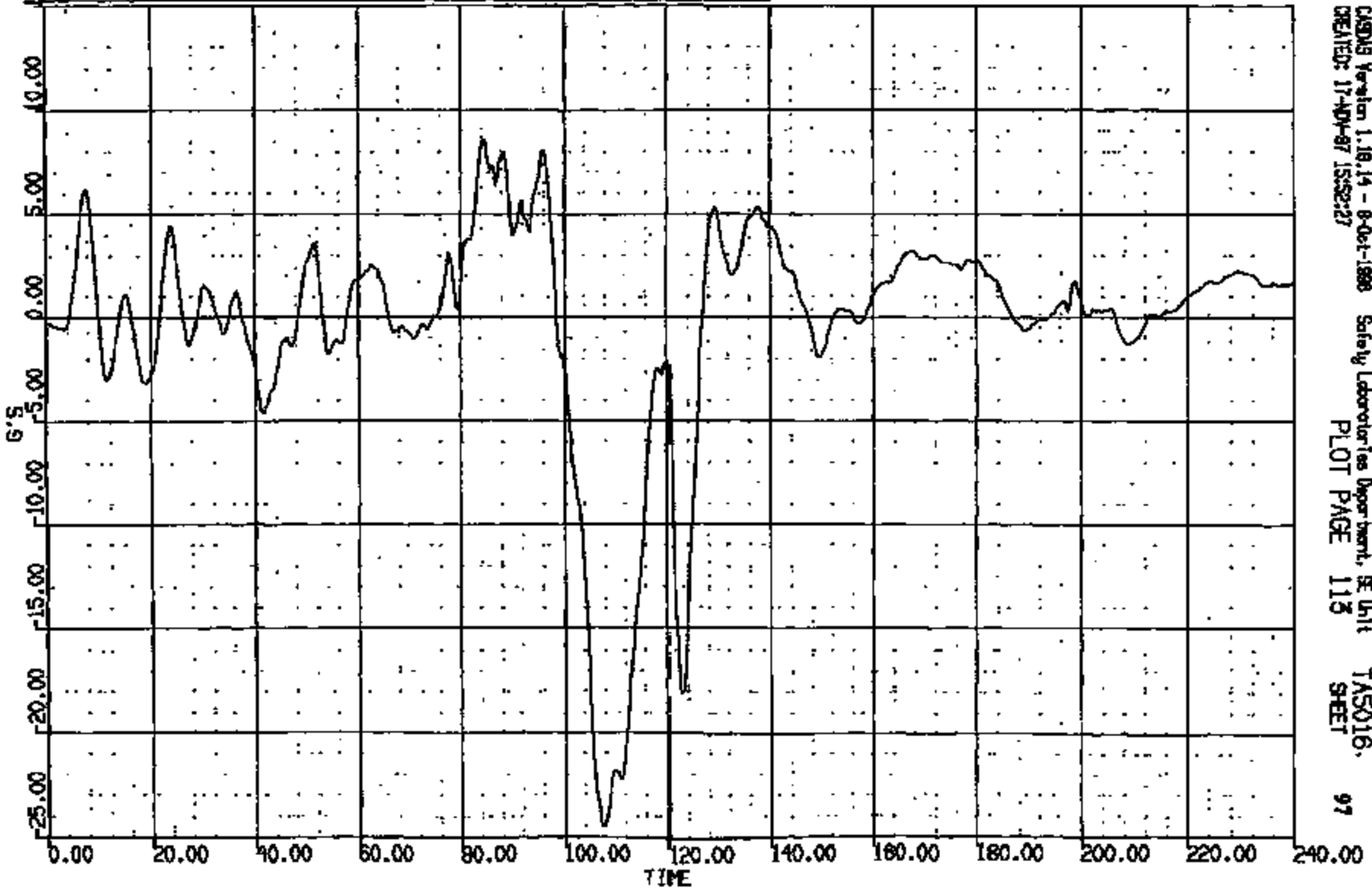
CRS Version 1.16.14 - 8-Oct-1998 Safety Laboratory Department, SE Unit T45016  
CREATED: 17-NOV-07 15:52:28 PLOT PAGE 112 SHEET 96

CRIS 0010921



CR: 10021 TO: TAB016 DATE: 971117 14:41:55  
01-1988

(66) CR10021T L/O-FLR INSIDE @ RR VERT 60C  
MAX = 8.560 at 84.96 MS MIN = -21.51 at 107.7 MS **AXIS 1**

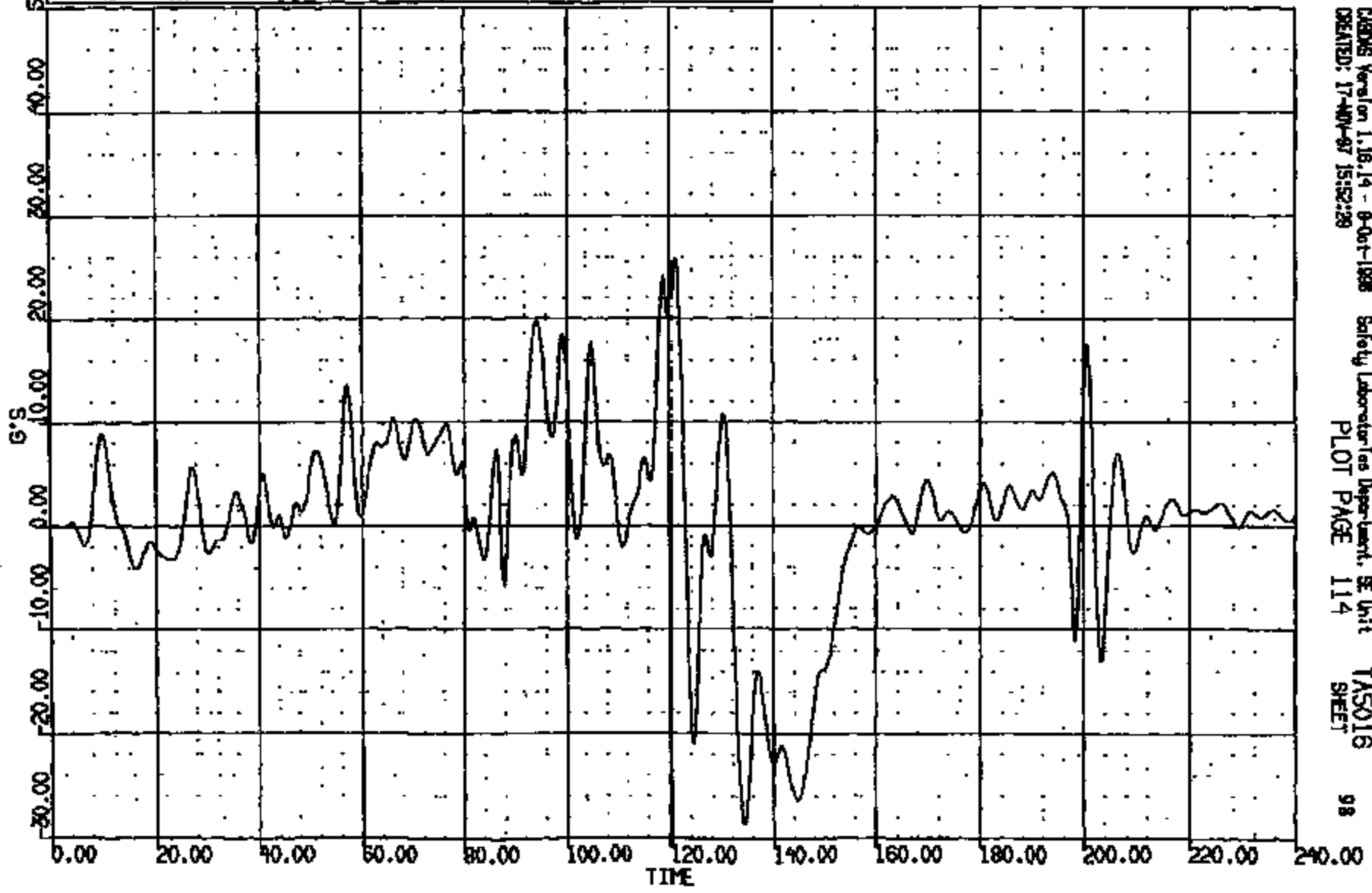


CASDIS Version 1.18.14 - 8-Oct-1988 Safety Laboratories Department, SE Unit TAB016.  
CREATED: 17-NOV-87 15:52:27 PLOT PAGE 113 SHEET 97

CR10021

CR R: 10921 TC: T5016 DATE: 971117 14:41:53  
D-188

(67) CR10921T L/B-PLR INSIDE @ RKR LAT GOC  
MAX = 25.87 at 121.0 MS MIN = -28.67 at 134.3 MS **AXIS 1**

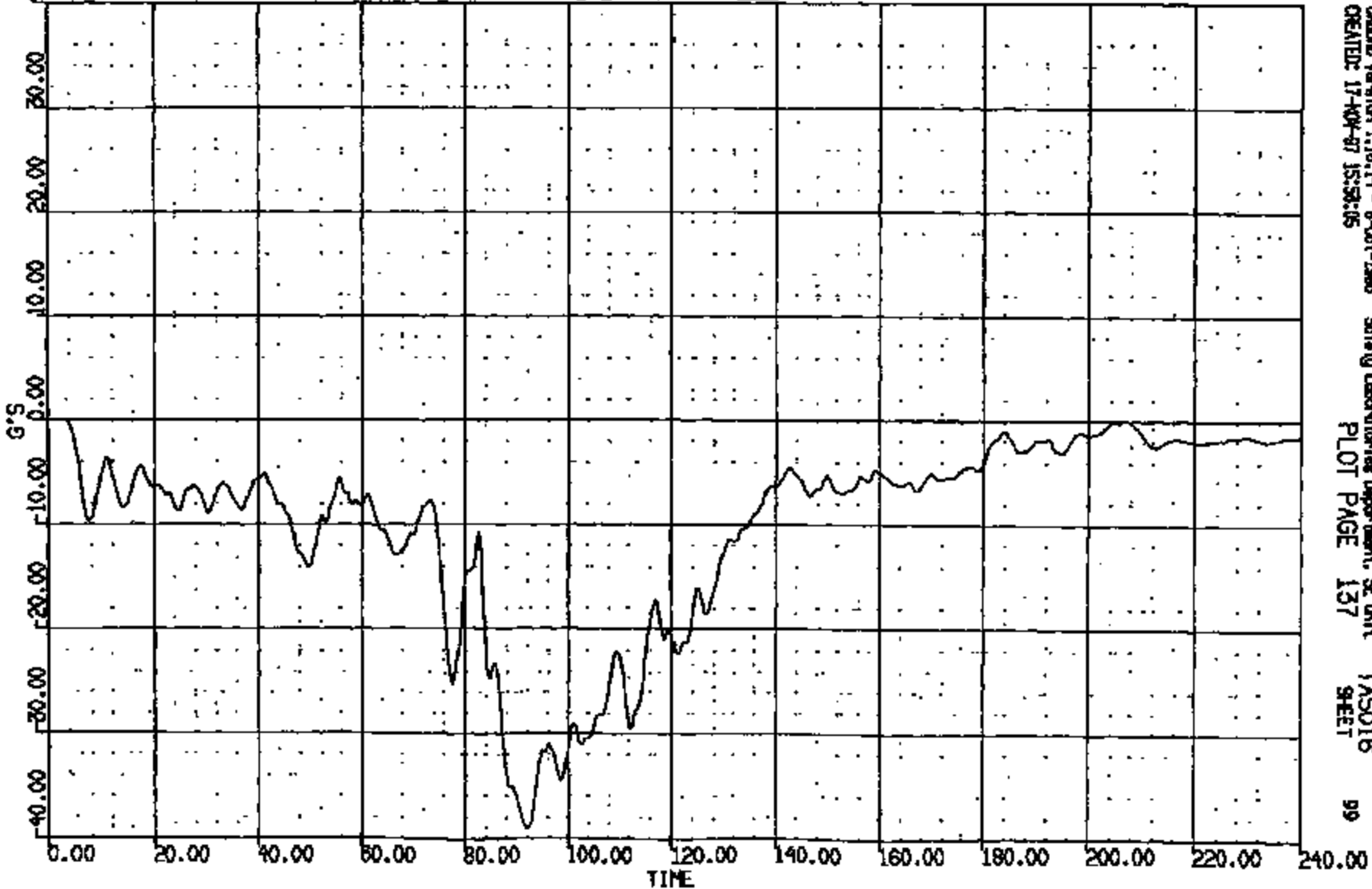


CADDS Version 1.16.14 - 8-Oct-1998 Safety Laboratories Department, SE Unit  
CREATED: 17-Nov-97 15:52:28 PLOT PAGE 114 T5016 SHEET 98

CRTS 0010921

DR R: 10821 TO: TA5016 DATE: 971117 14:41:55  
0-180

(90) CR10921T C/F FLOOR PAN @ TUNNEL LONG 600  
MAX = 0.9750E-01 at 206.6 MS MIN = -30.14 at 91.92 MS **AXIS 1**



CARDMS Version 1.16.14 - 8-Oct-1988  
CREATED: 17-NOV-97 15:58:05

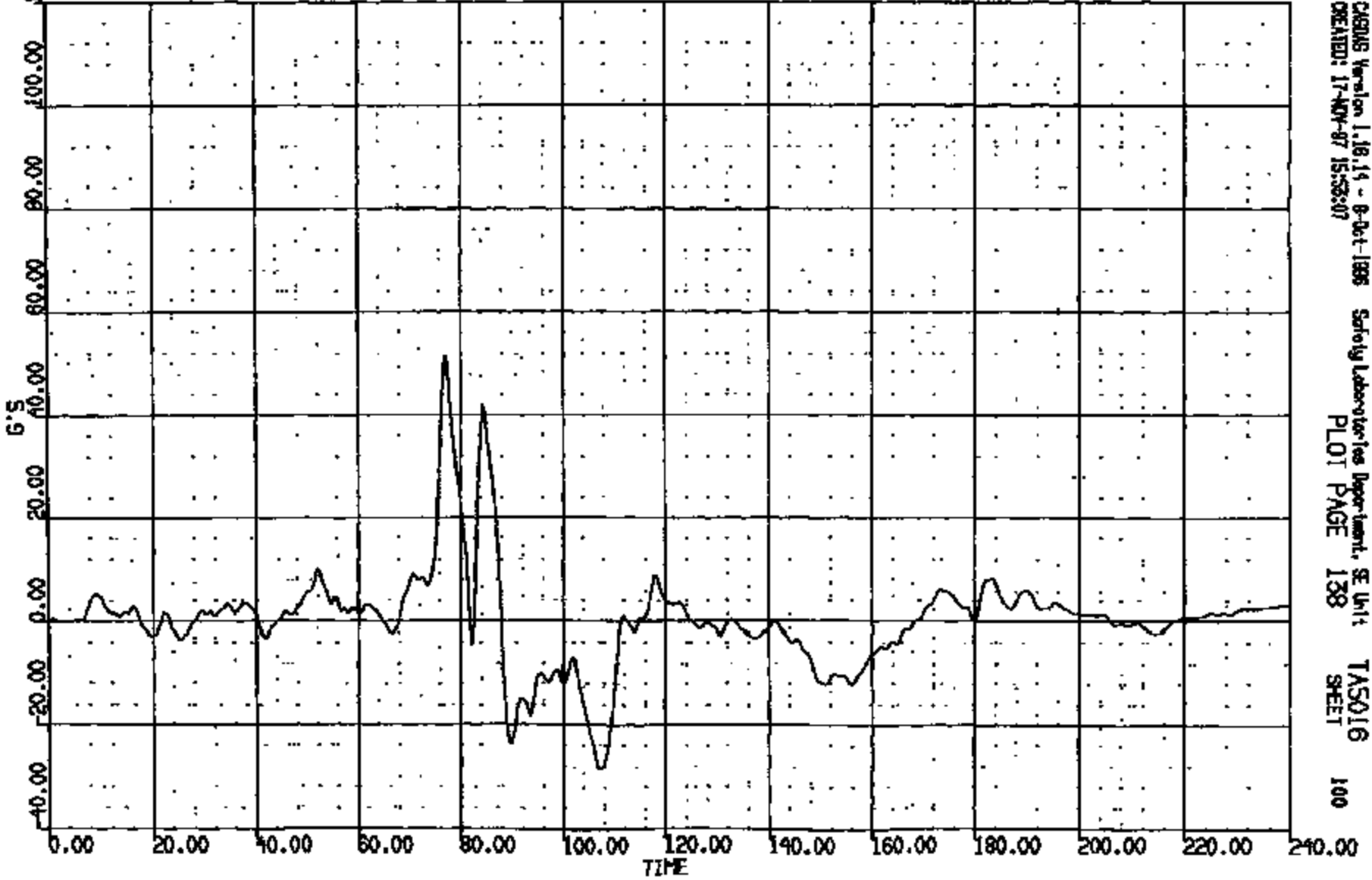
Safety Laboratories Department, SE Unit  
PLOT PAGE 137

TA5016  
SHEET

CRTS 0010921

017 R: 10921 TO: TAB016 DATE: 971117 14:41:55  
01-1996

(91) CR10921T C/F FLOOR PAN @ TUNNEL WERT 60C  
MAX = 51.32 at 77.12 MS MIN = -28.46 at 107.1 MS **AXIS 1**



CASINS Version 1.16.14 - 8-Oct-1996  
CREATED: 17-NOV-97 15:53:07

Safety Laboratories Department, SE Unit  
PLOT PAGE 138

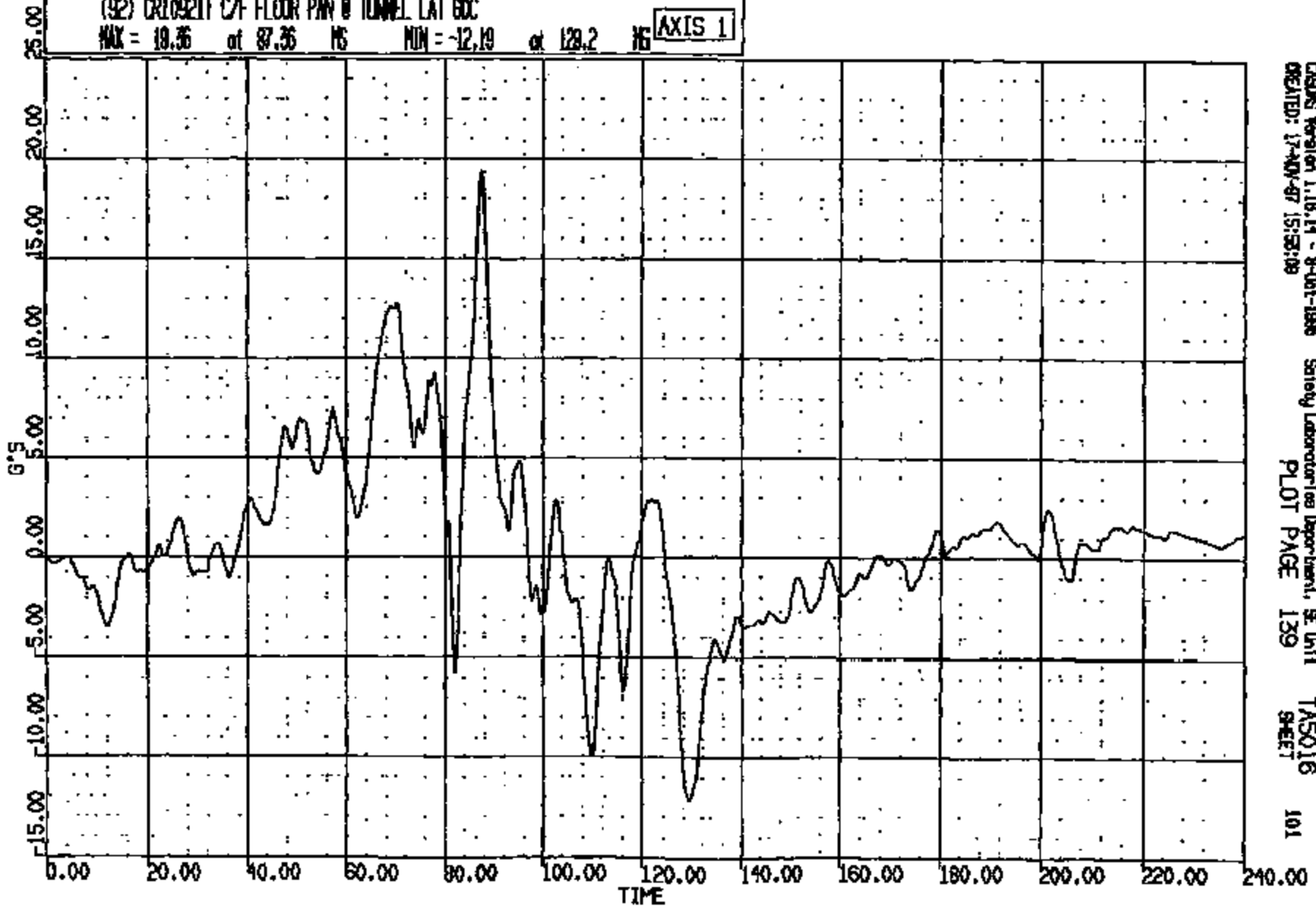
TAS016  
SHEET

100

CRTS 0010921

CR: 10921 TO: TASS16 DATE: 871117 14:41:55  
01100

(92) CR10921T C/F FLOOR PAN @ TUNNEL LAT 60C  
MAX = 18.36 at 87.36 HG MIN = -12.19 at 128.2 HG **AXIS 1**



CRSWS Version 1.16.14 - 8-Oct-1986  
CREATED: 17-AUG-87 15:53:08

Safety Laboratories Department, SE Unit  
PLOT PAGE 139

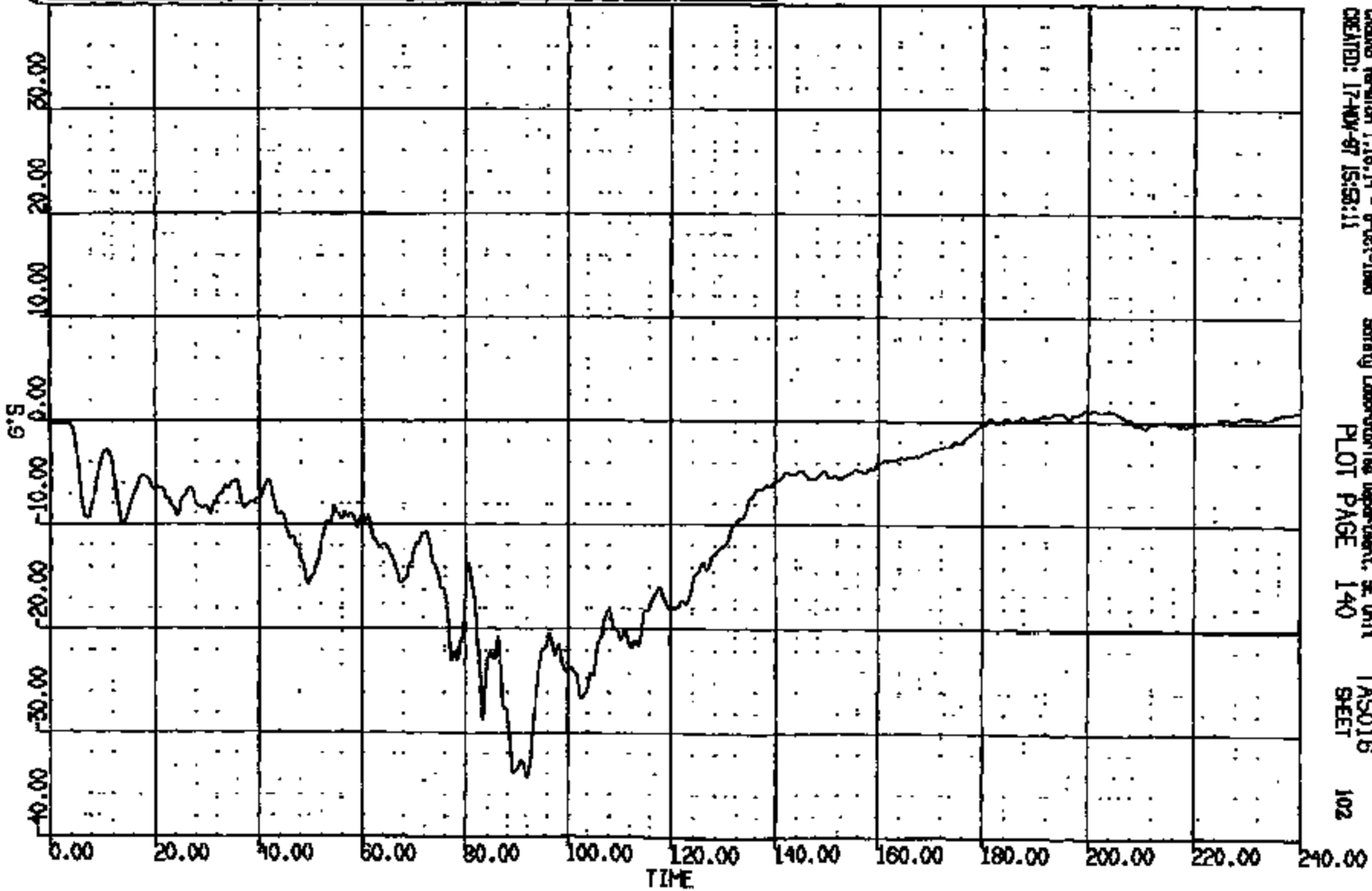
TASS16  
SHEET 101

CRIS 0010921

CR R: 10921 TO: TASSIS DATE: 971117 14:41:55  
D-188

(93) CR10921T R/F FLOOR PMN @ #1 XNER CNTR LONG 60C  
MAX = 1.136 at 199.1 MS MIN = -31.34 at 92.00 MS

AXIS 1

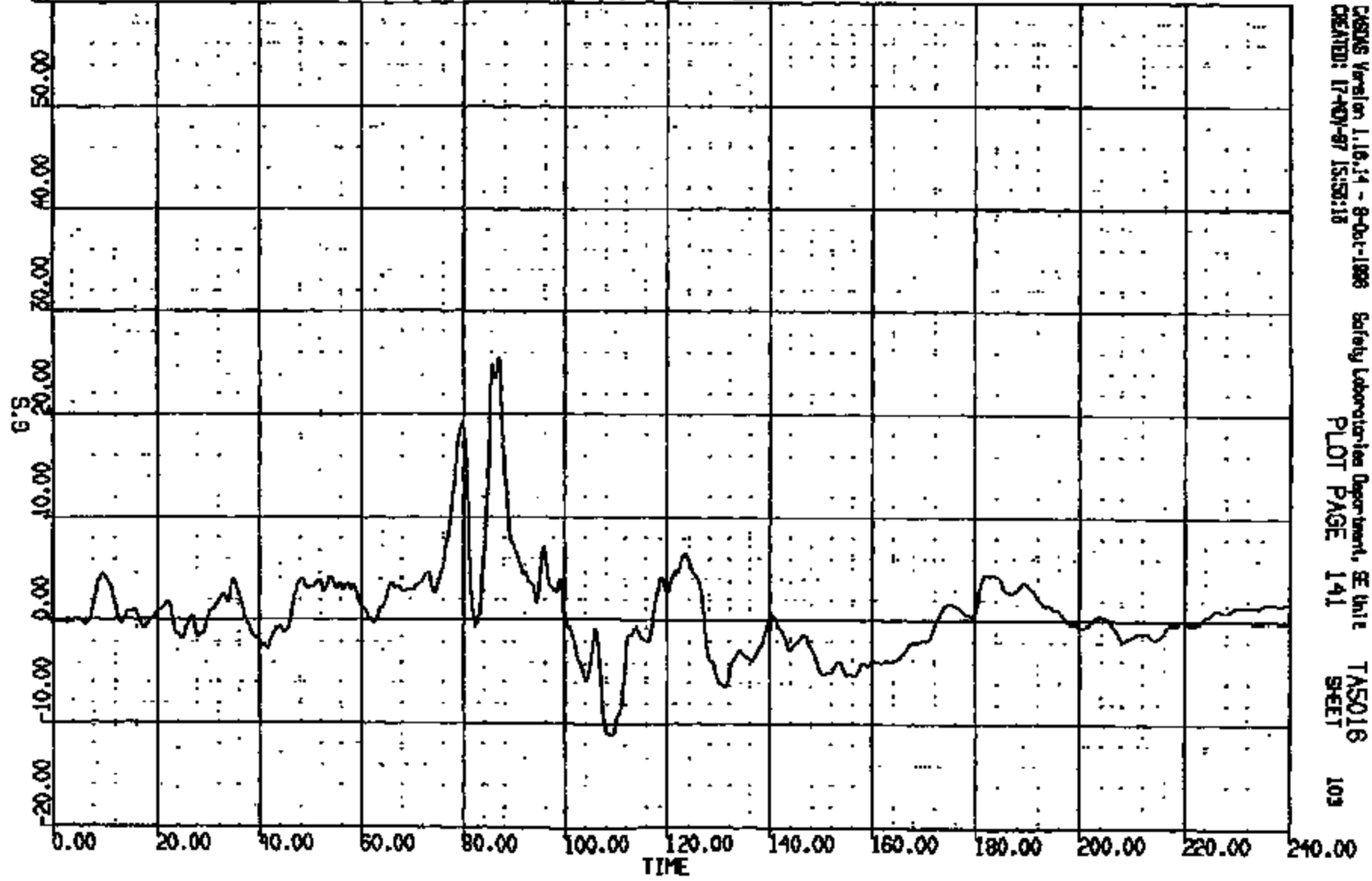


CASINS Version 1.16.14 - 8-Oct-1998 Safety Laboratories Department, SE Unit TASSIS 102  
CREATED: 17-NOV-97 15:53:11 PLOT PAGE 140 SHEET

CRTS 0010921

CR #: 10921 TO: TAS016 DATE: 971117 14:41:53  
D-106

(94) CR10921T R/F FLOOR PIV 0 #1 XBR CNTR VERT GOC  
MAX = 25.47 at 86.80 MS MIN = -11.15 at 109.2 MS **AXIS 1**



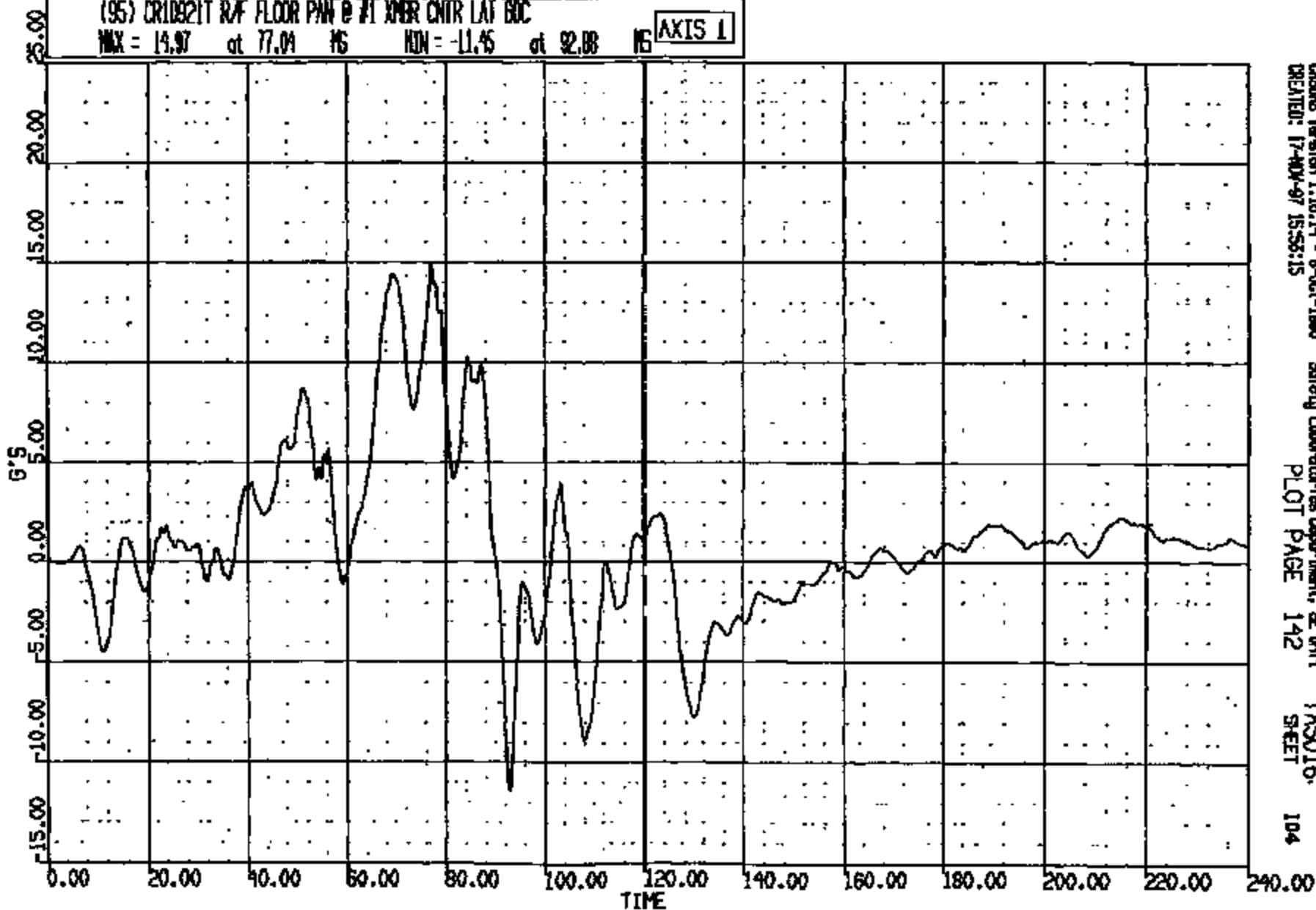
CADDS Version 1.10.14 - 8-Oct-1998 Safety Laboratories Department, SE Unit TAS016  
CREATED: 17-Nov-97 15:53:18 PLOT PAGE 141 SHEET 109

CRIS 0010921

CR R: 10921 TO: T6016 DATE: 971117 14:41:53  
D-188

(95) CR10921T R/F FLOOR PAN @ #1 XMR CNTR LAT BDC  
MAX = 19.97 at 77.01 MS MIN = -11.45 at 92.08 MS

AXIS 1



CASING Version 1.16.14 - 8-Oct-1998  
ORIENTED: 17-NOV-97 15:55:15

Safely Laboratories Department, SE Unit  
PLOT PAGE 142

TASO16  
SHEET

104

CRTS 0010921

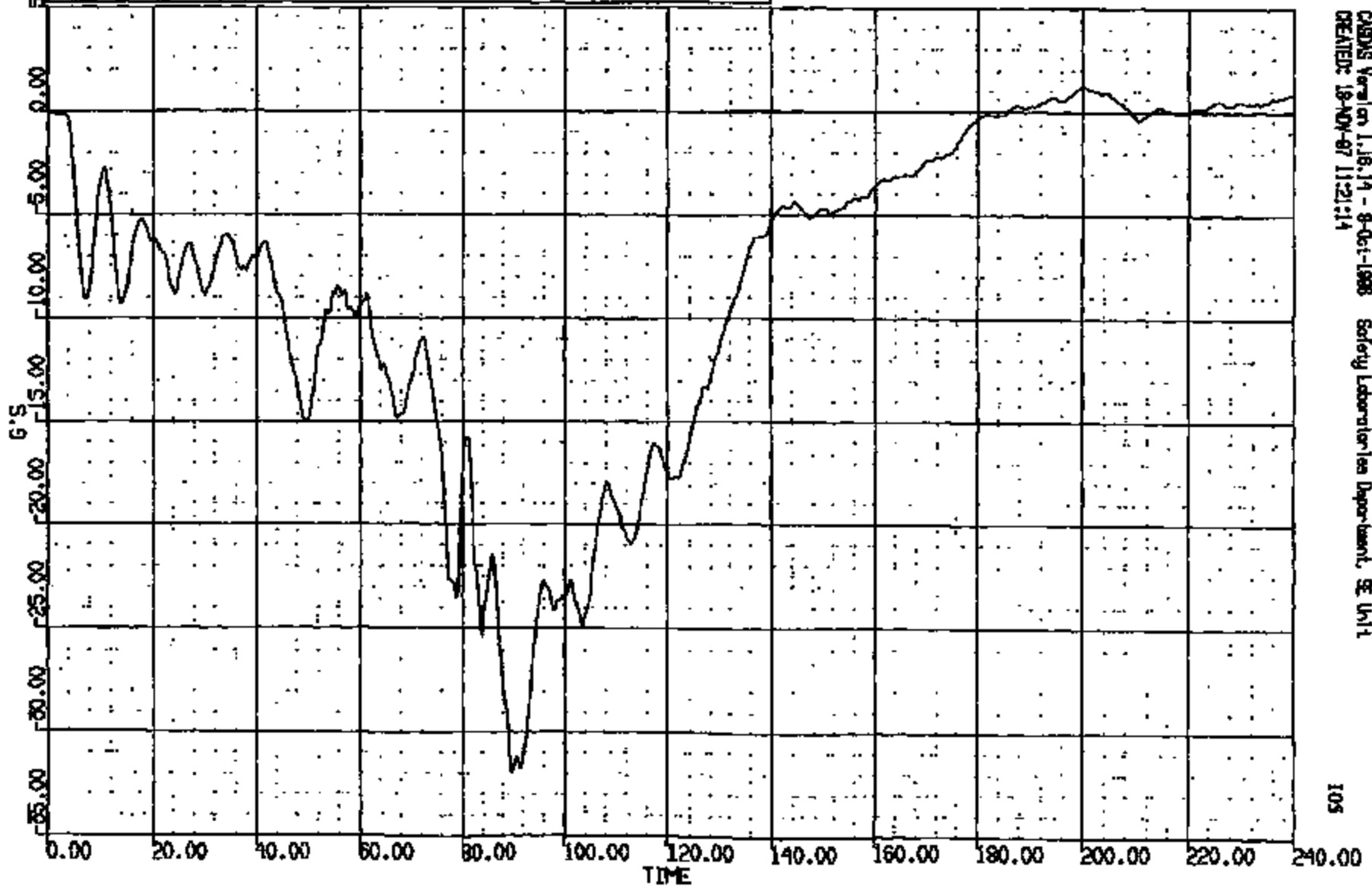


CR R: 10921 TO: TA5016 DATE: 971117 14:41:53  
TAURUS

POLARITY CORRECTED IN  
ACCORDANCE WITH ST-25  
REFERENCE 7

(96) CR10921T R/W FLOOR PAN @ #2 XMR CNTR LONG 60C  
MAX = 1.200 at 200.1 MS MIN = -31.95 at 89.04 MS

AXIS 1

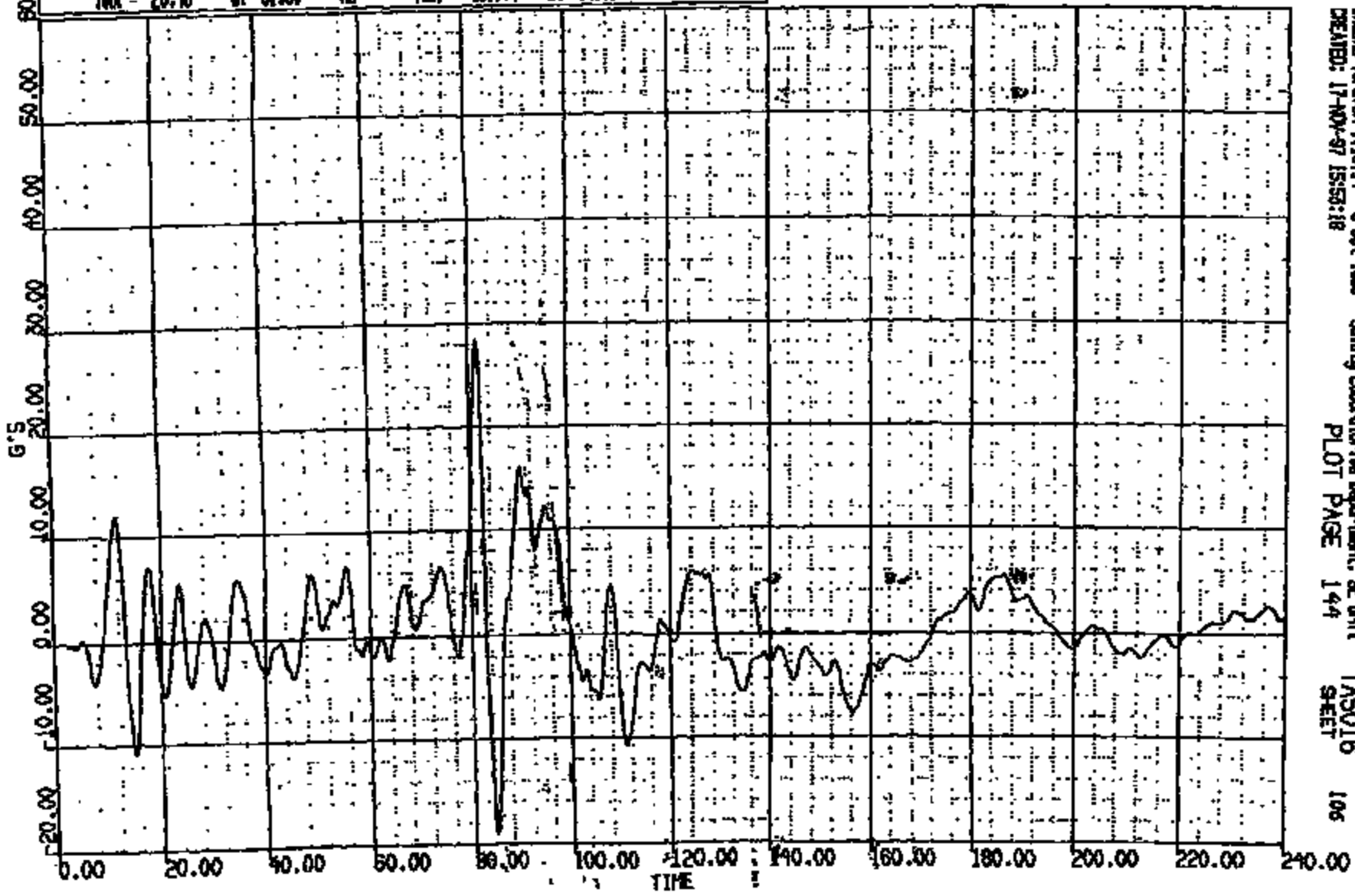


CADMS Version 1.18.14 - 9-01-1998 Safety Laboratories Department, SE Unit  
CREATED: 18-NOV-97 11:21:14

CR: 10921 TO: T5016 DATE: 971117 14:41:55  
U-100

(97) CR103217 R/W FLOOR PAN @ #2 NBER CHIR VERT 60C  
MAX = 28.16 at 81.60 NS MIN = -19.04 at 81.55 NS

AXIS: 1



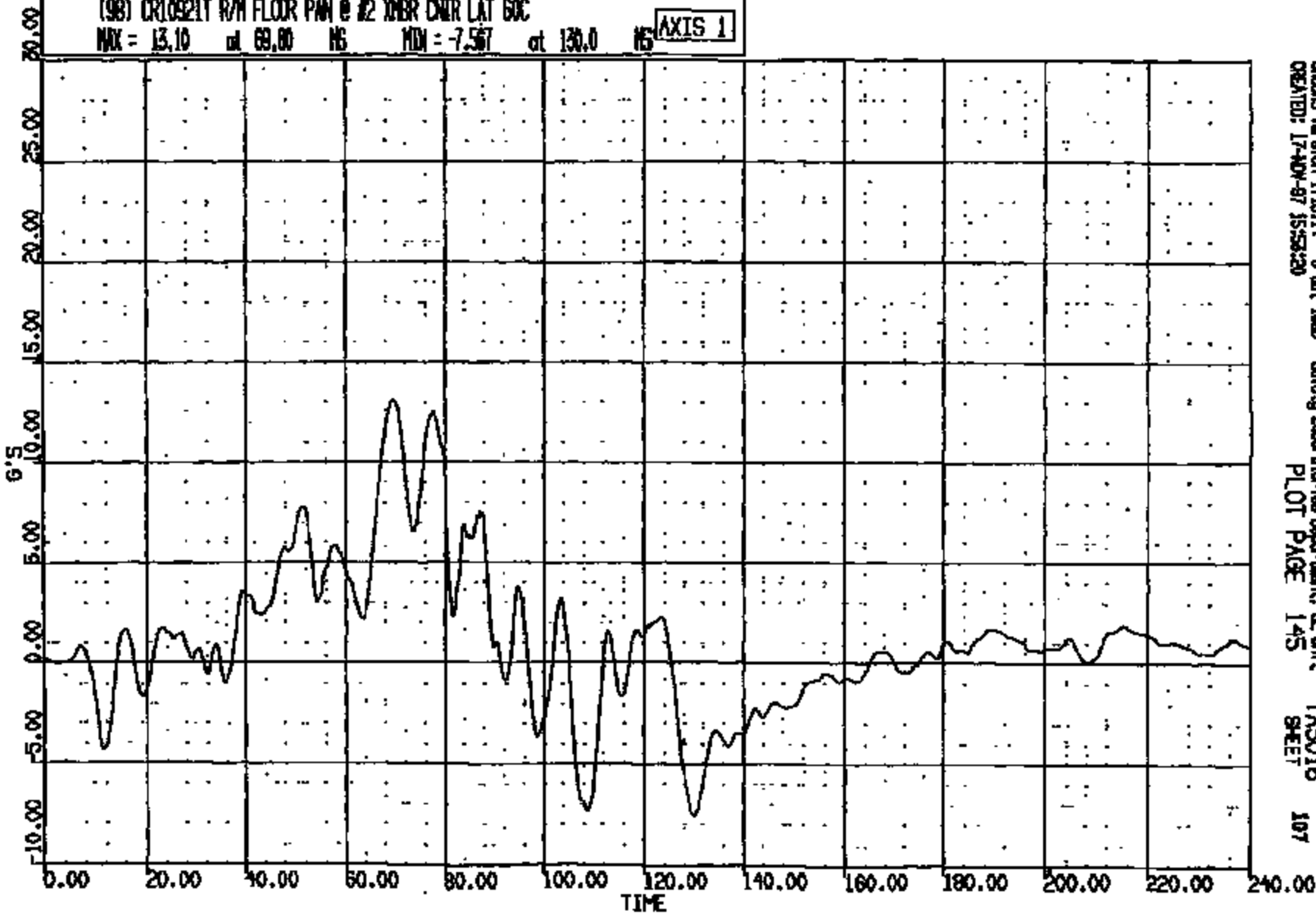
CASMS Version 1.18.14 - 8-Oct-1998 Safety Laboratories Department, SE Unit T5016 106  
CREATED: 17-Nov-97 15:53:18 PLOT PAGE 144 SHEET

CRTS 0010921

CR R: 10921 TO: T5016 DATE: 971117 14:41:55  
D-188

(98) CR10921T R/W FLOOR PAN @ #2 XBR CNR LAT GOC  
MAX = 13.10 at 69.00 NS MIN = -7.567 at 130.0 NS

AXIS 1



CASYS Version 1.18.14 - 9-Jul-1998  
CREATED: 17-NOV-97 15:58:20

Safety Laboratories Department, SE Unit  
PLOT PAGE 145

TAS016  
SHEET

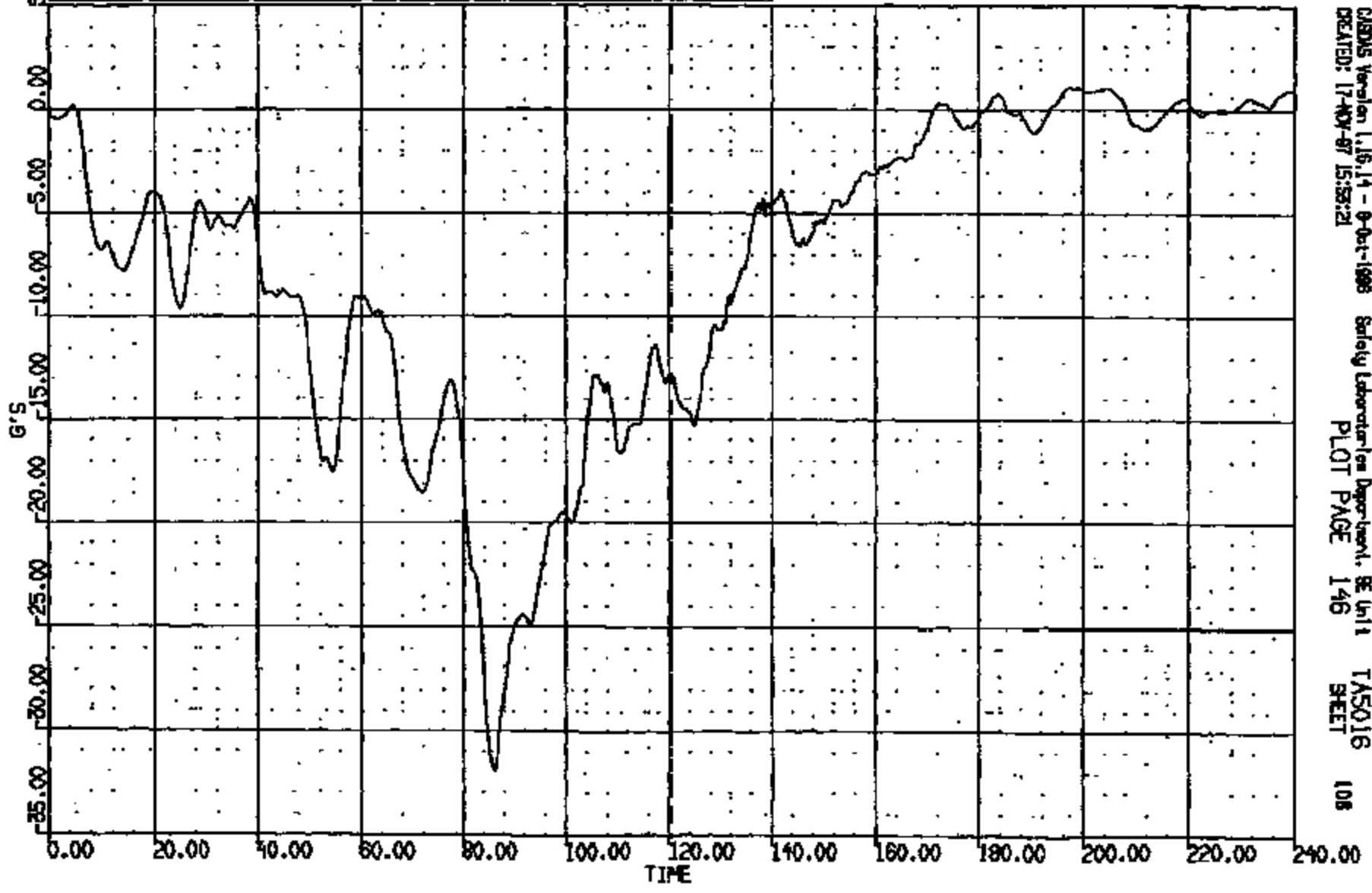
107

CRTS 0010921

CR: 10921 TO: T5016 DATE: 971117 14:41:55  
01-188

(99) CR10921T RA/ DOOR @ BEAM LONG SOC  
MAX = 1.070 at 197.3 MS MIN = -31.93 at 86.16 MS

AXIS 1

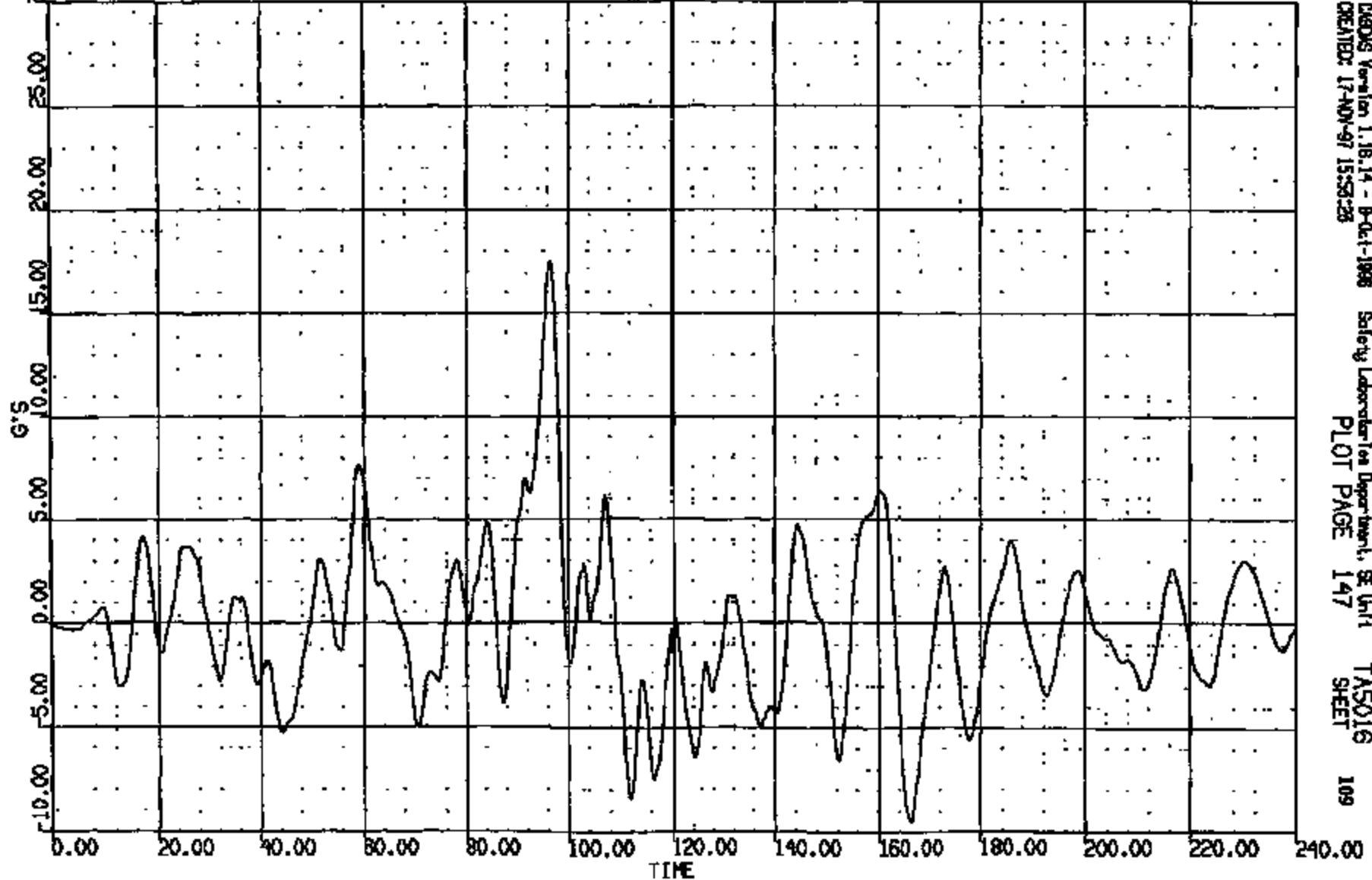


CIRSYS Version 1.16.14 - 9-Oct-1999 Safety Laboratories Department, BE Unit 1 T5016  
CREATED: 17-NOV-97 15:53:21 PLOT PAGE 146 SHEET 108

CRIS 0010921

CR R: 10921 TO: TAS016 DATE: 971117 14:41:53  
D-188

(100) CR10921T R/F DOOR @ BEAM VERT SOC  
MAX = 17.52 at 95.56 MS MIN = -9.538 at 166.3 MS **AXIS 1**

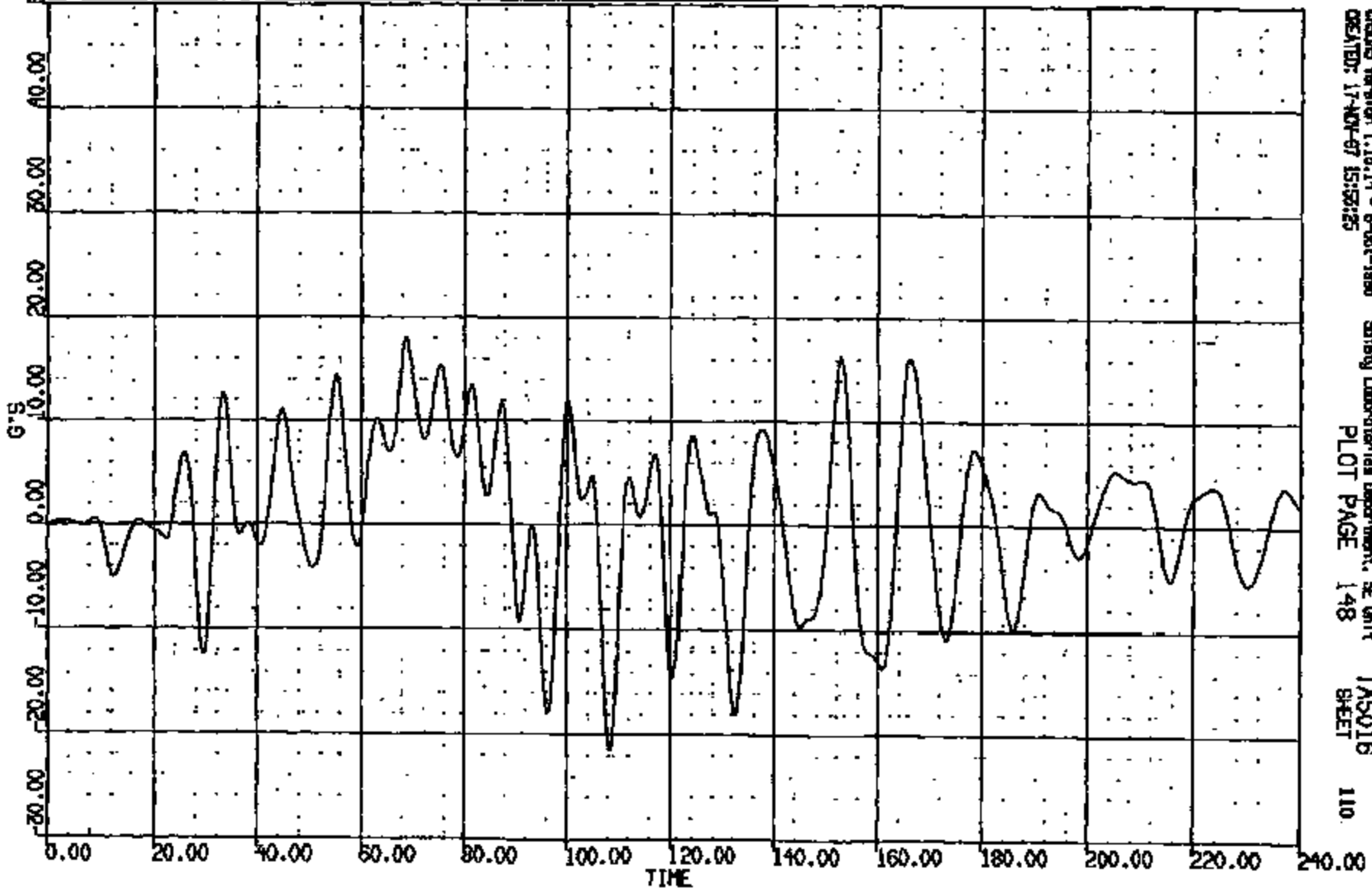


CRSOS Version 1.18.14 - B-Q-1-1998 Safety Laboratories Department, SE Unit  
CREATED: 17-NOV-97 15:58:28 PLOT PAGE 147 TAS016 SHEET 109

CRIS 0010921

CR R: 10921 TO: TMS016 DATE: 871117 17:41:55  
01:08

(101) CROSETT R/F DOOR @ BEAN LAT 60C  
MAX = 17.99 at 68.72 HS MIN = -21.55 at 108.4 HS **AXIS 1**



CRSUS Version 1.16.14 - 8-Oct-1988  
CREATED: 17-NOV-87 15:52:25

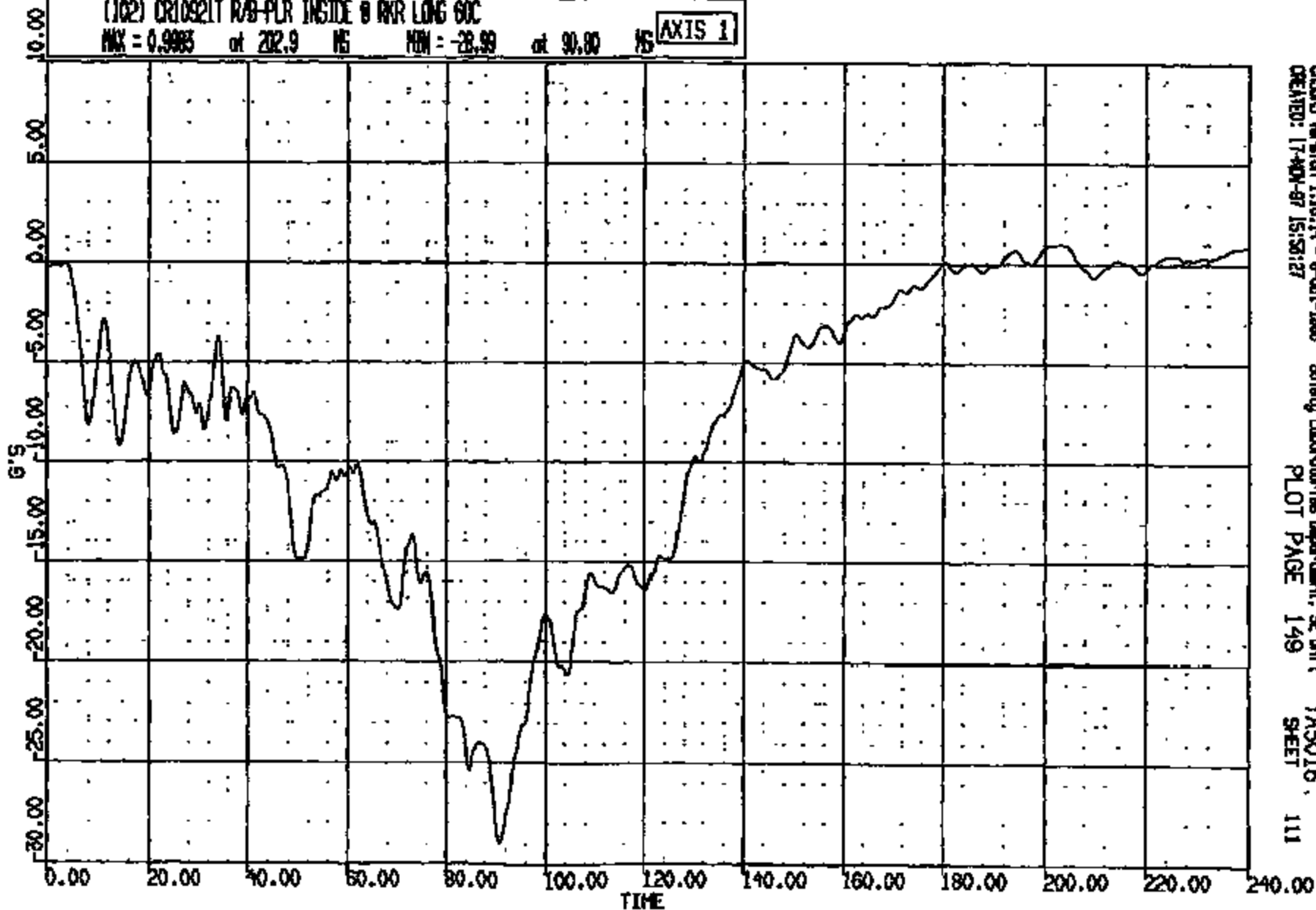
Safety Laboratories Department, SE Unit  
PLOT PAGE 148

TMS016  
SHEET 110

CRTS 0010921

CR R: 10921 TO: TAS016 DATE: 971117 14:41:53  
D-188

(102) CR10521T R/B-PLR INSIDE 8 RWR LONG 60C  
MAX = 0.9985 at 202.9 MS MIN = -28.99 at 90.00 MS **AXIS 1**



CRS016 Version 1.16.14 - 8-Oct-1998  
CREATED: 17-MAY-97 15:53:27

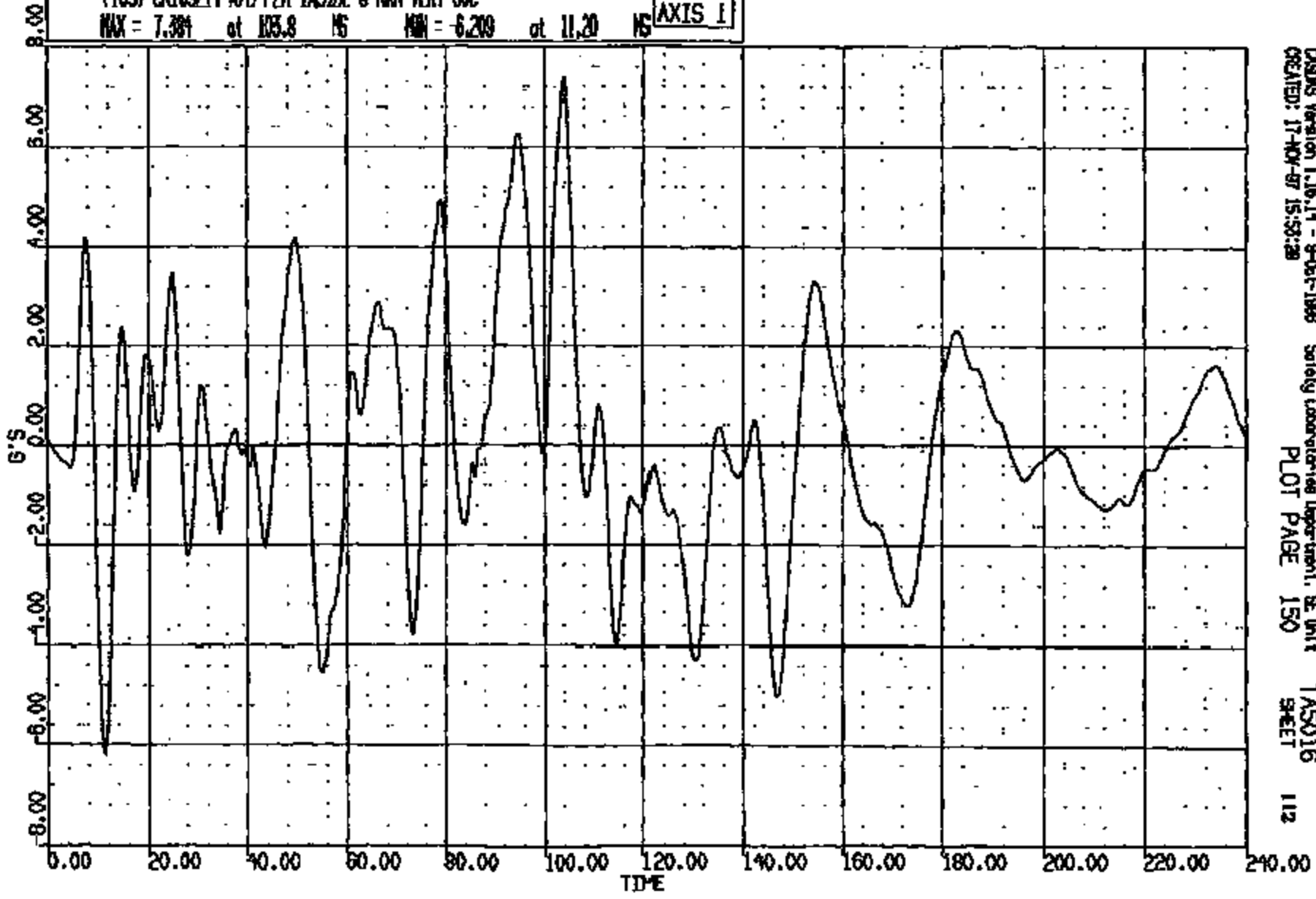
Safety Laboratories Department, SE Unit  
PLOT PAGE 149

TAS016  
SHEET 111

CRIS 0010921

CR 103: 10921 TO: T15016 DATE: 971117 14:41:58  
0-100

(103) CR10321 RVB-PLR INSIDE @ RWR VERT 60C  
MAX = 7.391 at 103.8 MS MIN = -6.209 at 11.20 MS **AXIS 1**



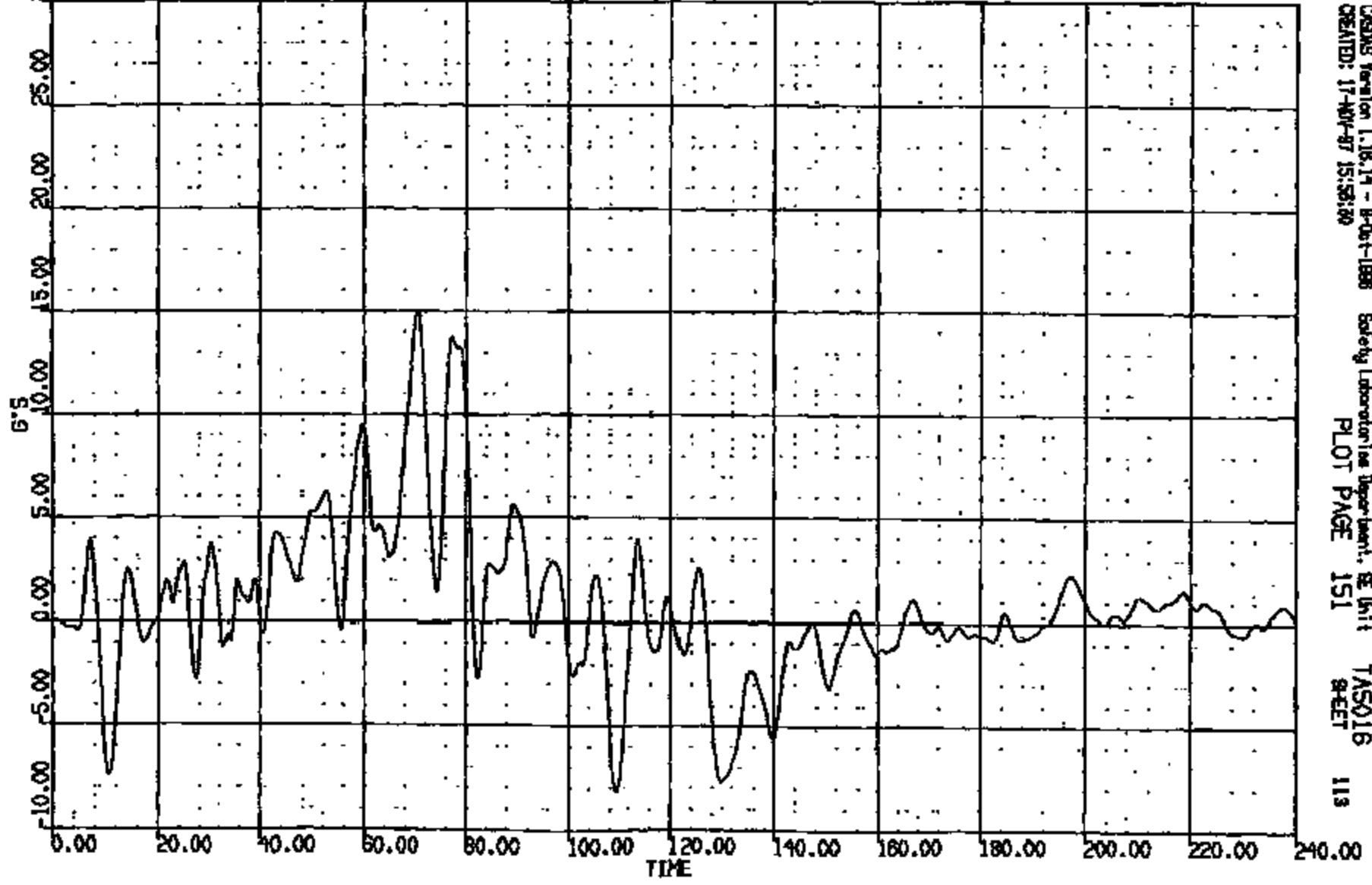
CRS05 Version 1.16.14 - 9-06-1999 Safety Laboratories Department, SE Unit T15016  
CREATED: 17-NOV-97 15:53:28 PLOT PAGE 150 SHEET 112

CRIS 0010921



CR R: 10921 TO: TASC16 DATE: 971117 17:41:55  
0.190

(104) CR10321T R/B-PLR INSIDE @ ROR LAT 60C  
MAX = 14.91 at 70.90 MS MIN = -8.158 at 109.3 MS **AXIS 1**



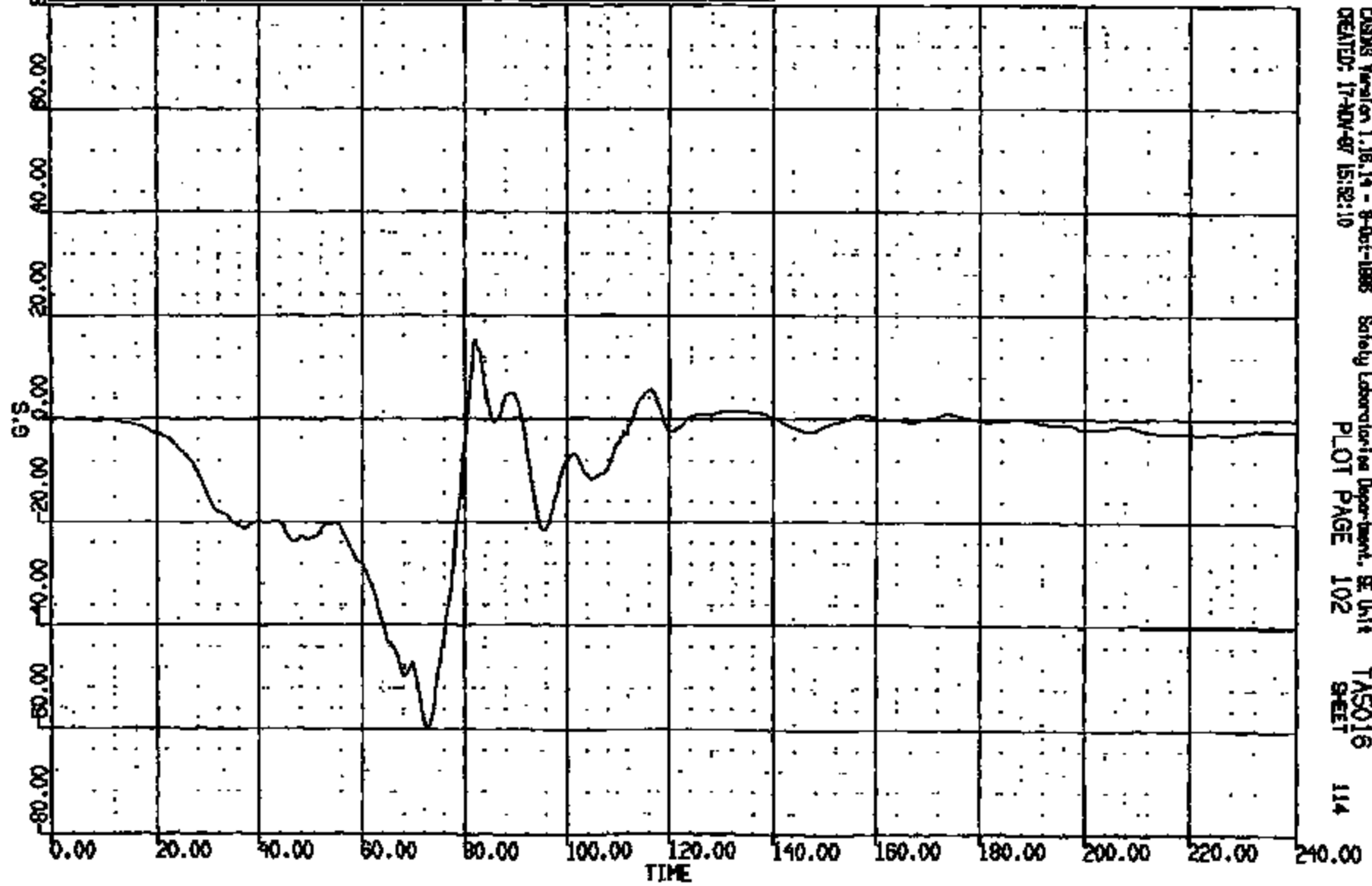
CASIS Version 1.18.14 - 8-Oct-1998 Safety Laboratory Department, EE Unit TASC16  
CREATED: 17-Nov-97 15:58:00 PLOT PAGE 151 8-RET 113

CRIS 0010921

OP R: 10821 TO: T45018 DATE: 871117 14:41:35  
0-108

(55) CR10921T ENGINE TRNG TOP LONG 60C  
MAX = 15.31 at 82.08 NS MIN = -60.07 at 72.84 NS

AXIS 1



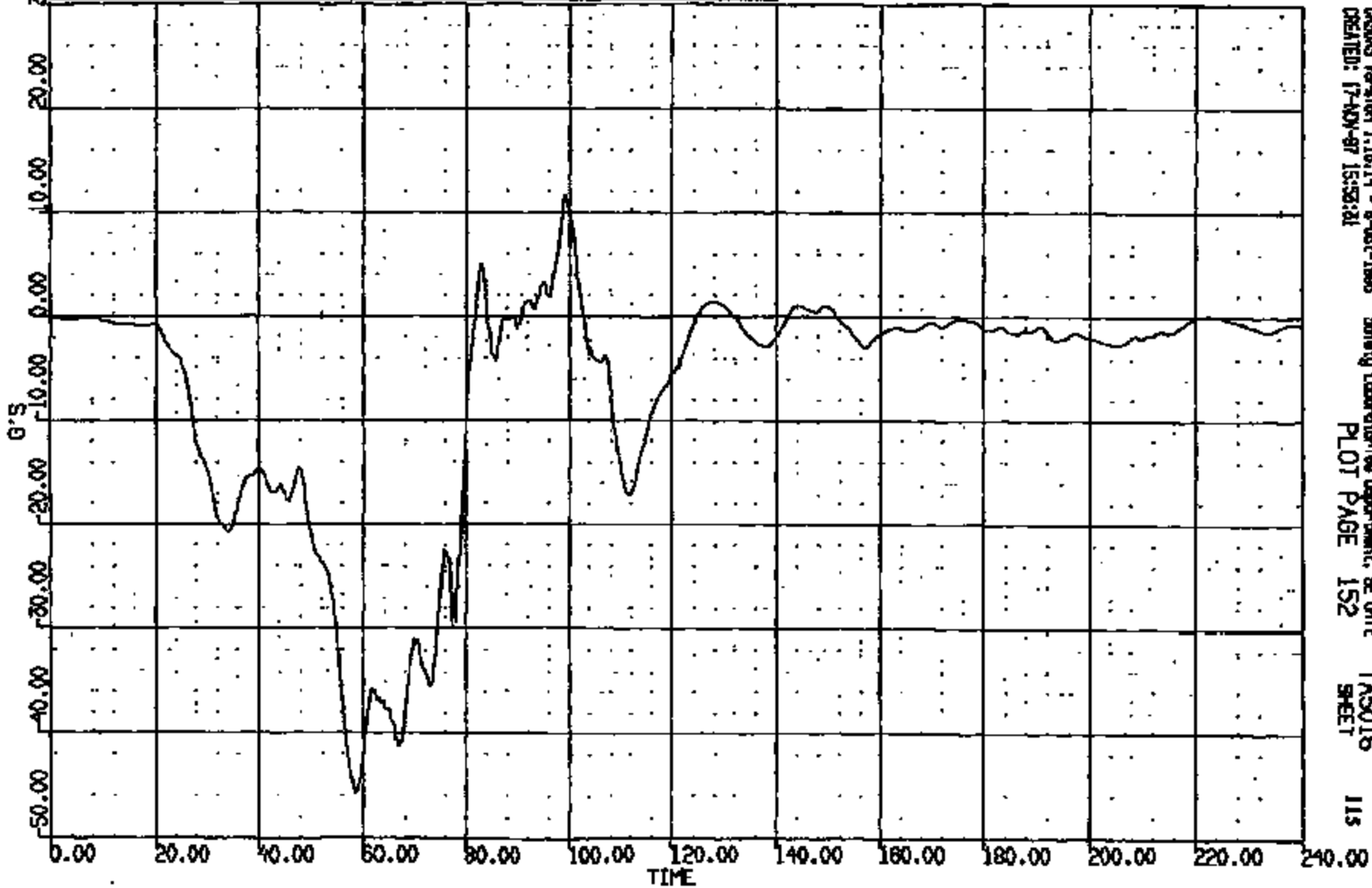
CASONS Version 1.16.14 - 8-Oct-1988 Safety Laboratories Department, SE Unit  
CREATED: 17-NOV-87 15:52:10 PLOT PAGE 102 T45018 SHEET 114

CR10921T

OP NR: 10921 TO: TASO1B DATE: 071117 14:41:55  
DT: 1988

(105) CR109217 ENGINE TRANS BOTTOM LONG 60C  
MAX = 11.70 at 99.20 NS MIN = -45.70 at 58.98 NS

AXIS 1

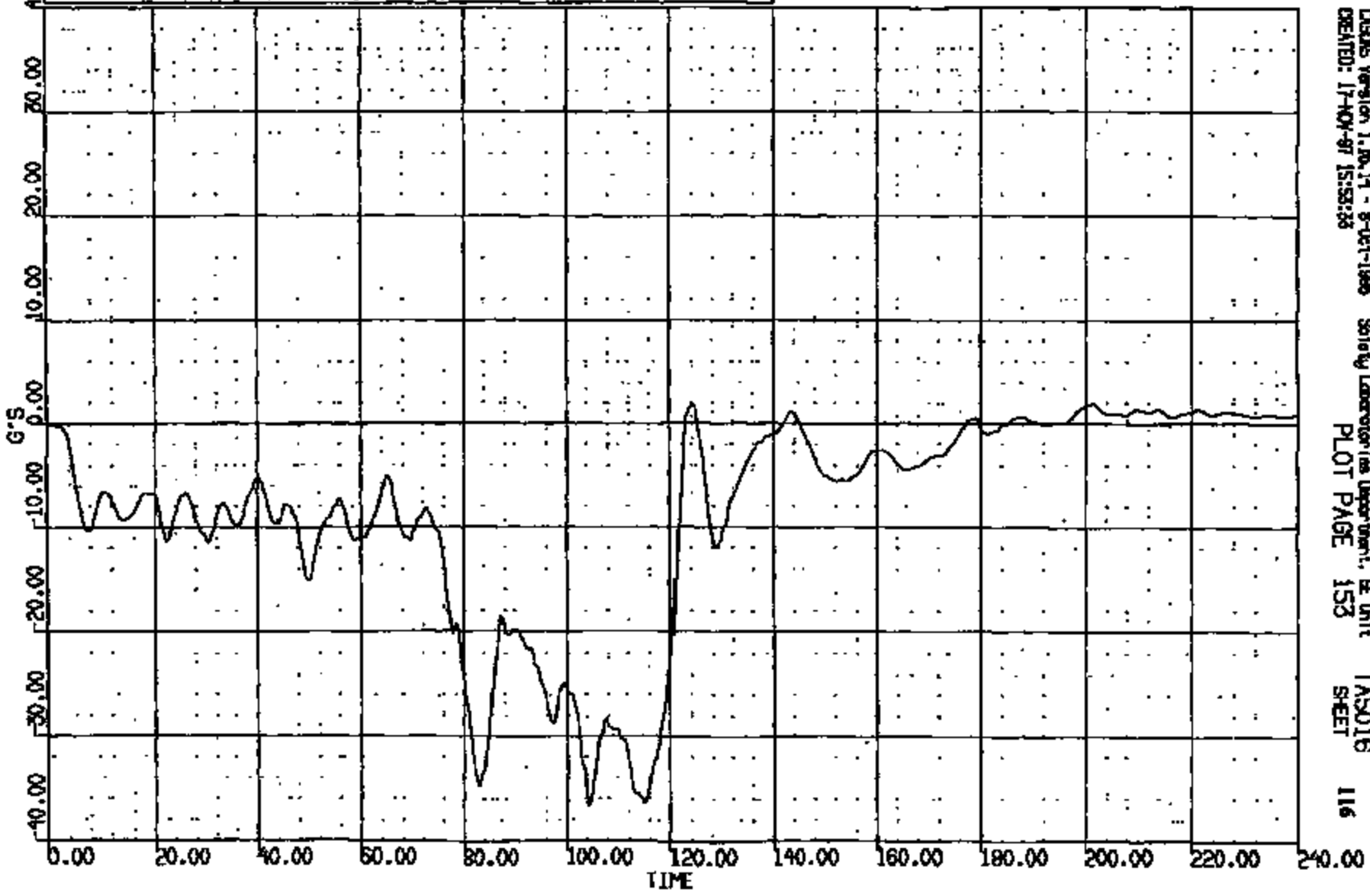


CASUS Version 1.18.14 - 8-Oct-1988 Safety Laboratory Department, SE Unit TASO1B 115  
CREATED: 17-NOV-87 15:53:31 PLOT PAGE 152 SHEET

CRTS 0010921

CR R: 10921 TO: TAS016 DATE: 871117 14:41:53  
D-188

(106) CR10921T L/ROCKER @ B-PILLAR LONG SOC  
MAX = 1.92 at 201.4 MS MIN = -30.72 at 104.5 MS **AXIS 1**

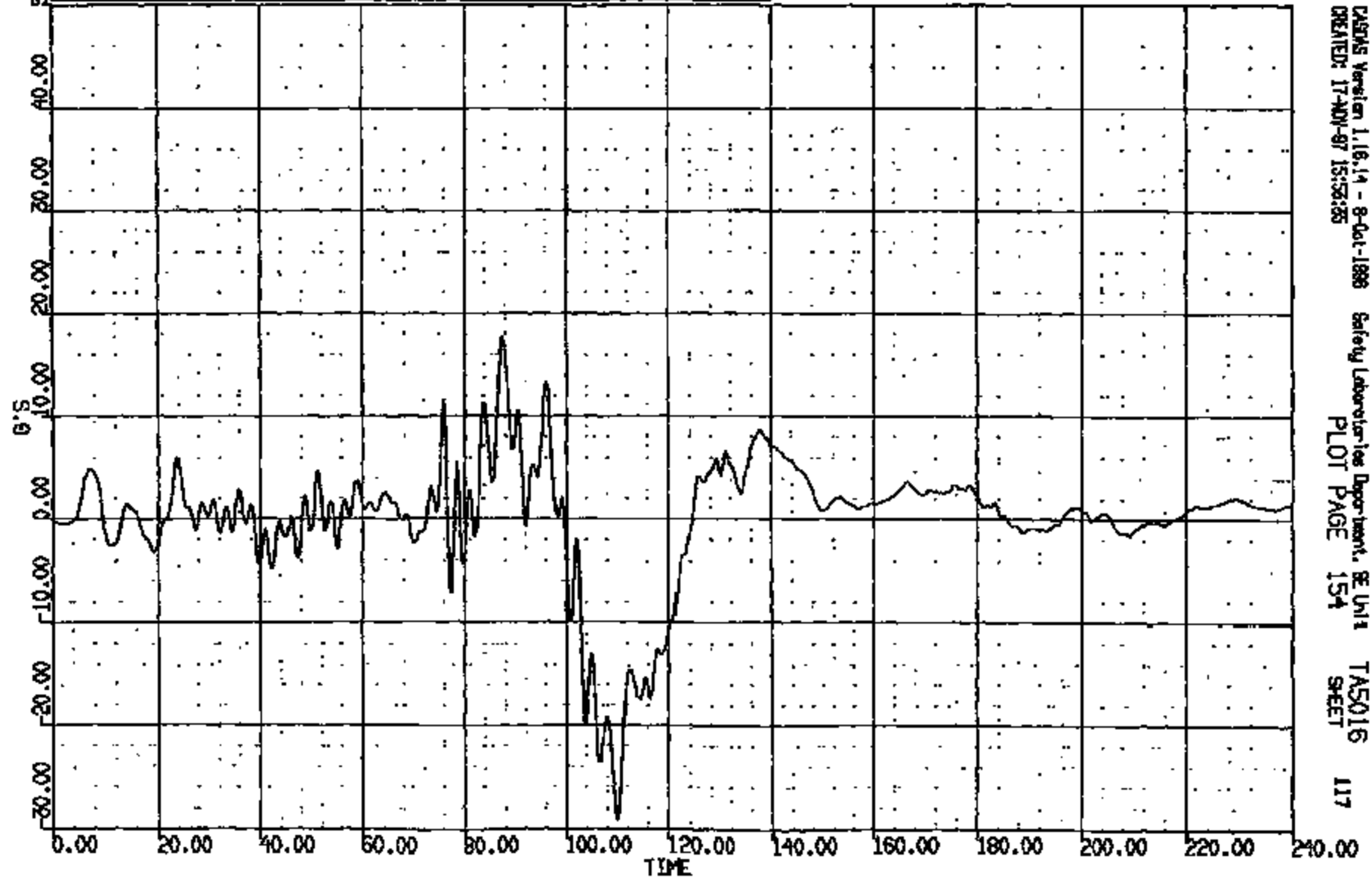


CRSIS Version 1.06.14 - 8-Oct-1988 Safety Laboratories Department, E Unit TAS016  
CREATED: 17-NOV-87 15:53:33 PLOT PAGE 153 SHEET 116

CRTS 0010921

ORA R: 10921 TO: T45016 DATE: 871117 14:41:53  
01-1888

(107) CR10921T L/ROCKER @ B-PILLAR VENT 60C  
MAX = 17.53 at 87.35 MS MIN = -29.26 at 110.0 MS **AXIS 1**

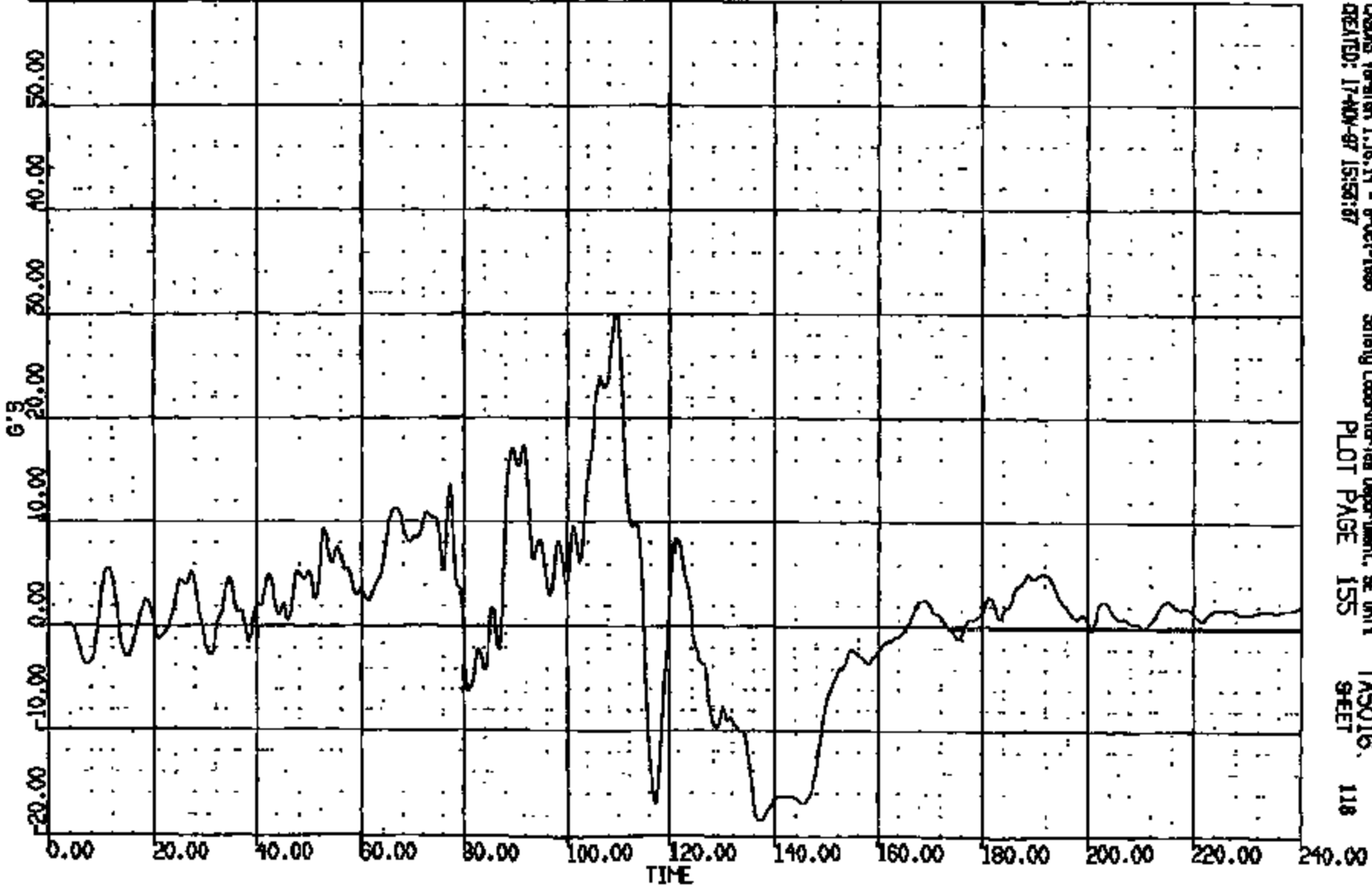


CASMS Version 1.16.14 - 8-Oct-1988 Safety Laboratories Department, SE Unit  
CREATED: 17-NOV-87 15:53:85  
PLOT PAGE 154 SHEET 117

CRIS 0010921

CR R: 10921 TO: TAS016 DATE: 971117 14:41:53  
D-100

(100) CR10321T L/ROCKER @ B-PILLAR LAT 60C  
MAX = 30.03 at 109.5 MS MIN = -18.51 at 137.5 MS **AXIS 1**



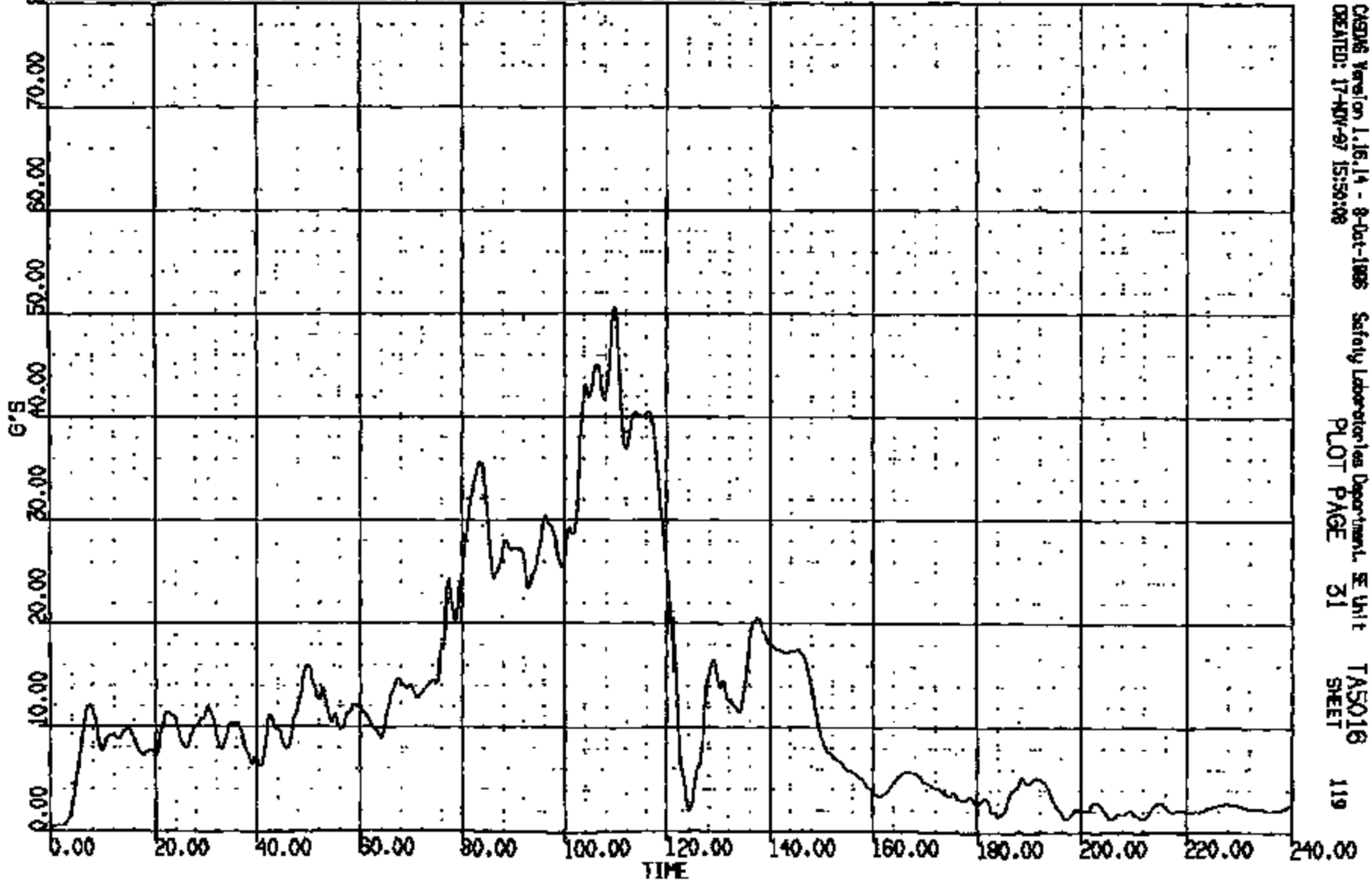
CRSAS Version 1.18.14 - 8-Oct-1996 Safety Laboratories Department, GE Hitachi TAS016, 118  
CREATED: 17-NOV-97 15:53:37 PLOT PAGE 155 SHEET

CRIS 0010921

07:13: 10921 TO: T5016 DATE: 071117 17:41:53  
01188

(1007) CR109217 L/ROCKER @ B-PILLAR RES 60C  
MAX = 50.59 at 109.8 MS MIN = 0.2599 at 0.7900E-01 MS

AXIS 1



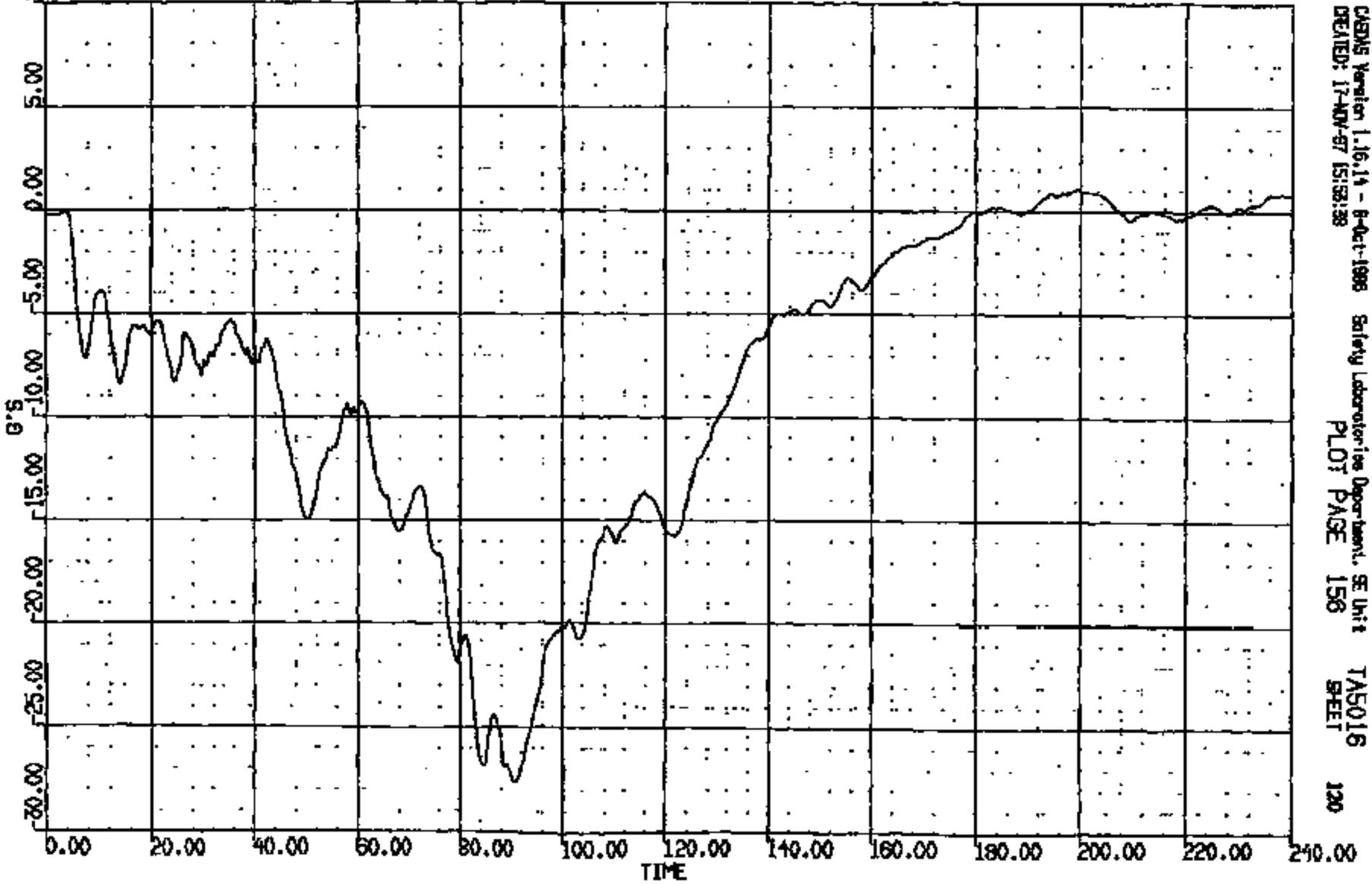
CASING Version 1.16.14 - 8-Oct-1995 Safety Laboratories Department, SE Unit T5016 119  
CREATED: 17-NOV-97 15:50:08 PLOT PAGE 31 SHEET

CRTS 0010921

CR: 10921 TO: TA5016 DATE: 871117 14:41:53  
01-1988

(109) CRLOS21T RAMOCKER @ B-PILLAR LONG 60C  
MAX = 1.091 at 198.5 HG MIN = -27.66 at 90.80 HG

AXIS ↓



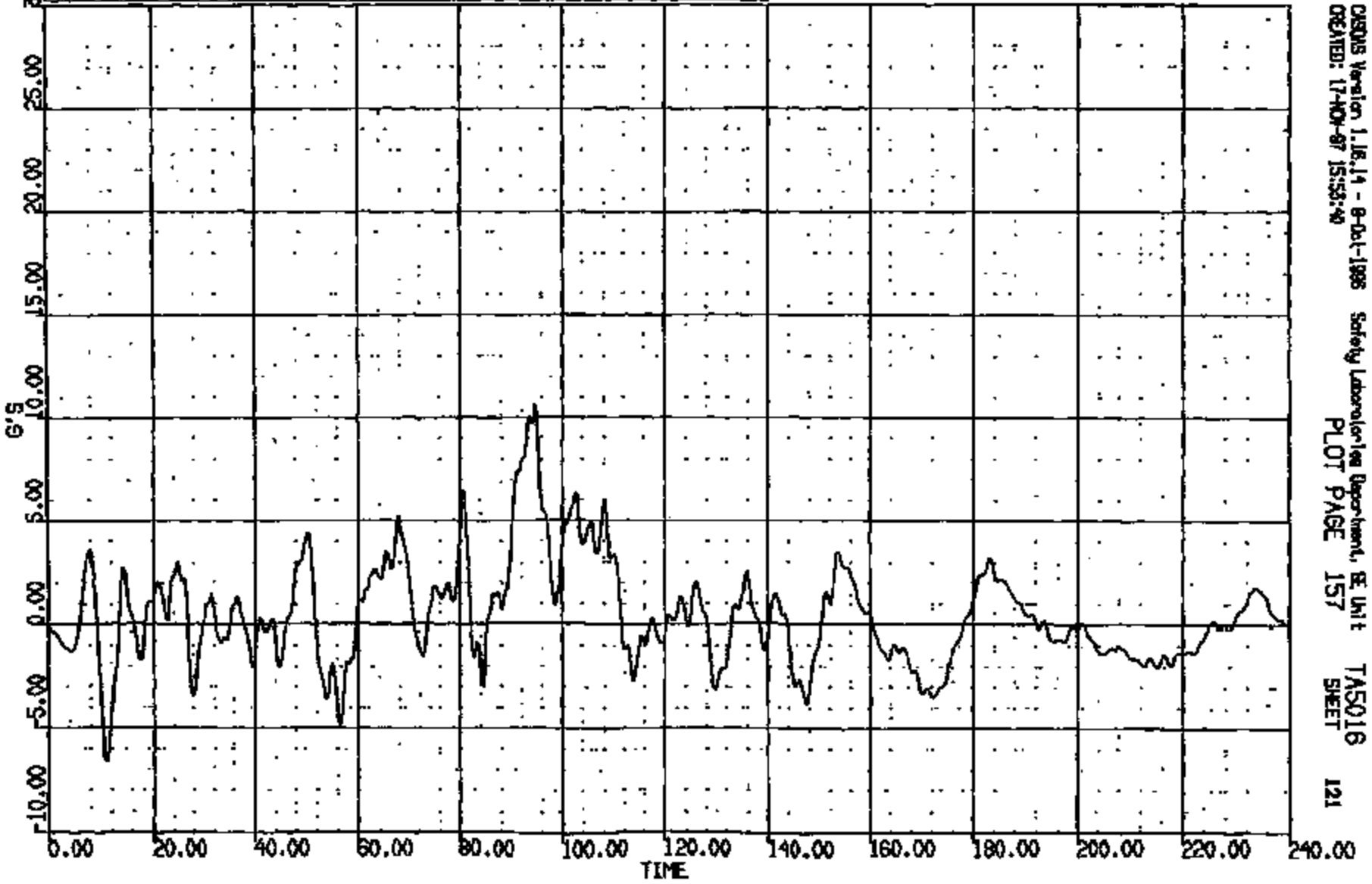
CADMS Version 1.16.14 - 8-Oct-1988 Safety Laboratory Department, SE Unit TA5016  
CREATED: 17-NOV-87 15:53:38 PLOT PAGE 156 SHEET 120

CRIS 0010921



CR R: 10921 TO: T45016 DATE: 871117 14:41:58  
D-198

(116) CRIBSPIT R/ROCKER @ B-PILLAR VERT 60C  
MAX = 10.56 at 94.72 MS MIN = -6.623 at 11.04 MS **AXIS 1**



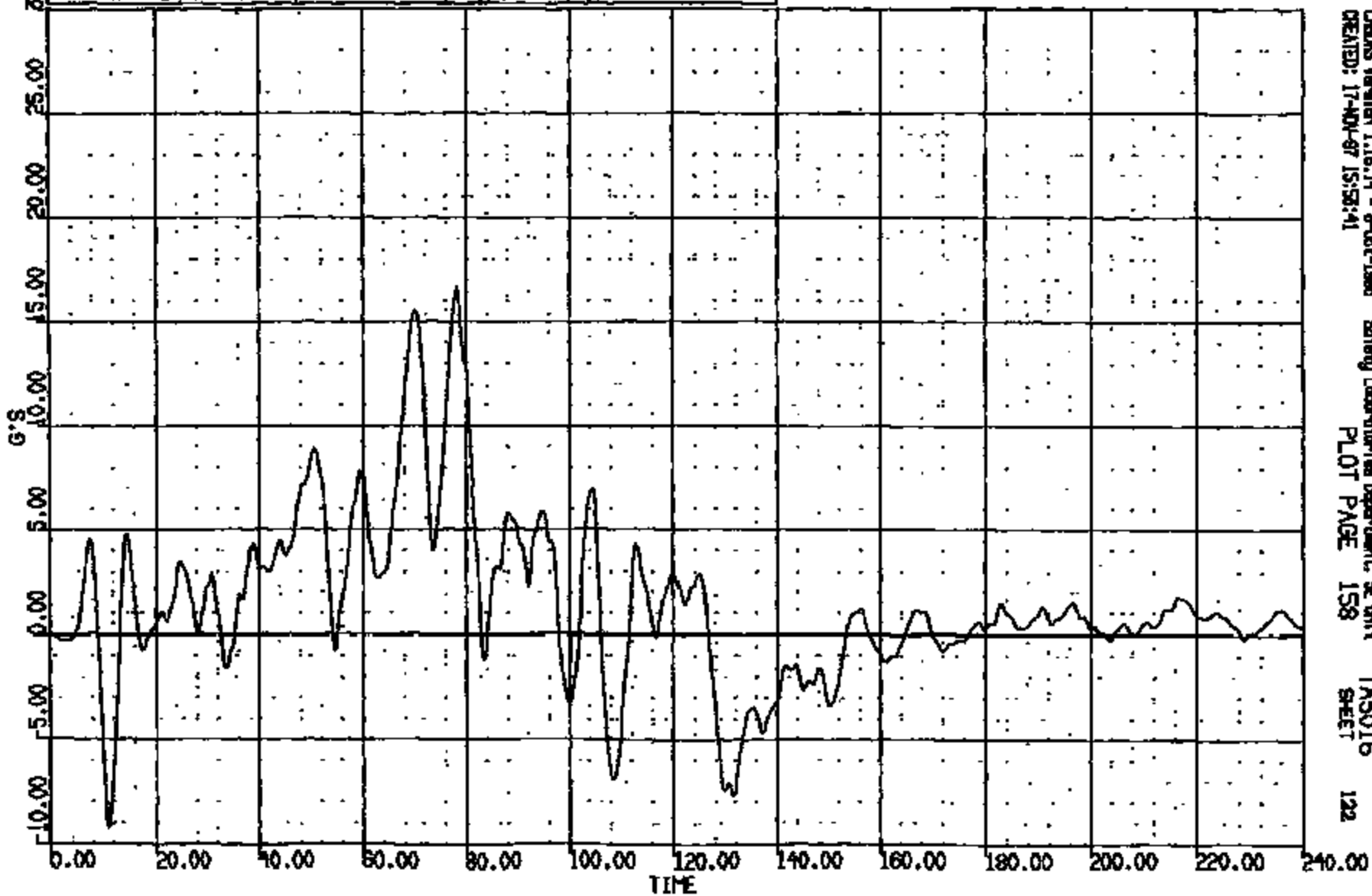
CRSUS Version 1.1E.14 - 8-Oct-1986 Safety Laboratory Department, E Unit T45016  
CREATED: 17-NOV-87 15:53:40 PLOT PAGE 157 SHEET 121

CRTS 0010921

CRIS 10921 TO: TA5016 DATE: 871117 14:41:58  
D-1-1988

(11) CRIS211 R/ROCKER @ B-PILLAR LAT 60C  
MAX = 06.70 at 78.24 NS MIN = -9.360 at 11.20 NS

AXIS 1



CRIS Version 1.16.14 - 8-Oct-1988  
CREATED: 17-MAY-87 15:53:41

Safety Laboratories Department, SE Unit  
PLOT PAGE 158

TA5016  
SHEET

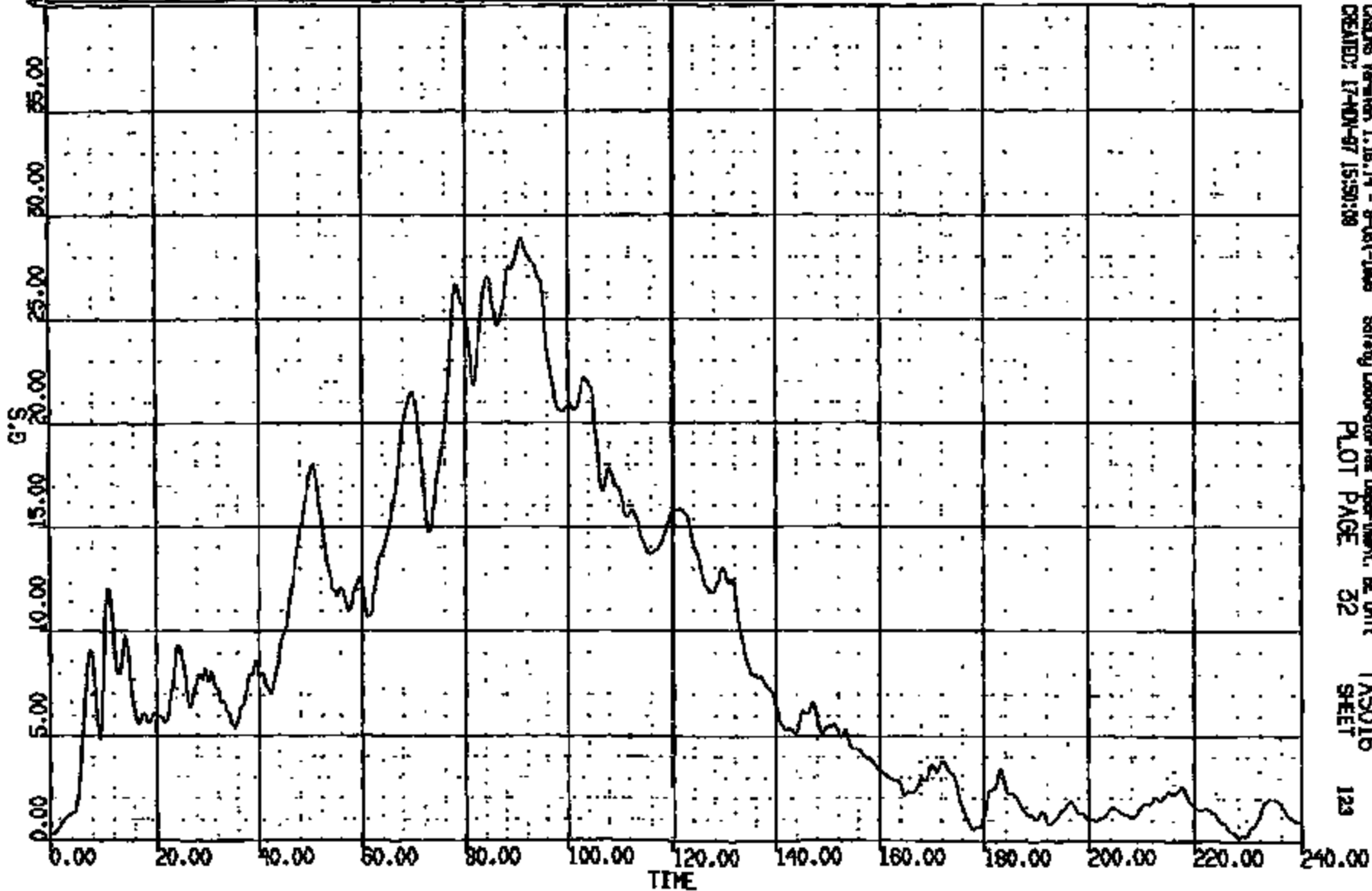
122

CRIS 0010921

CR R: 10921 TO: TAS016 DATE: 971117 14:41:53  
D-100

(10008) CR1021T R/RODNER @ B-PILLAR RES 60C  
MAX = 28.91 at 90.96 MS MIN = 0.1391 at 228.1 MS

AXIS 1



CR008 Version 1.18.14 - 8-Oct-1995  
CREATED: 17-NOV-97 15:50:38

Safety Laboratory Department, BE Unit  
PLOT PAGE 32

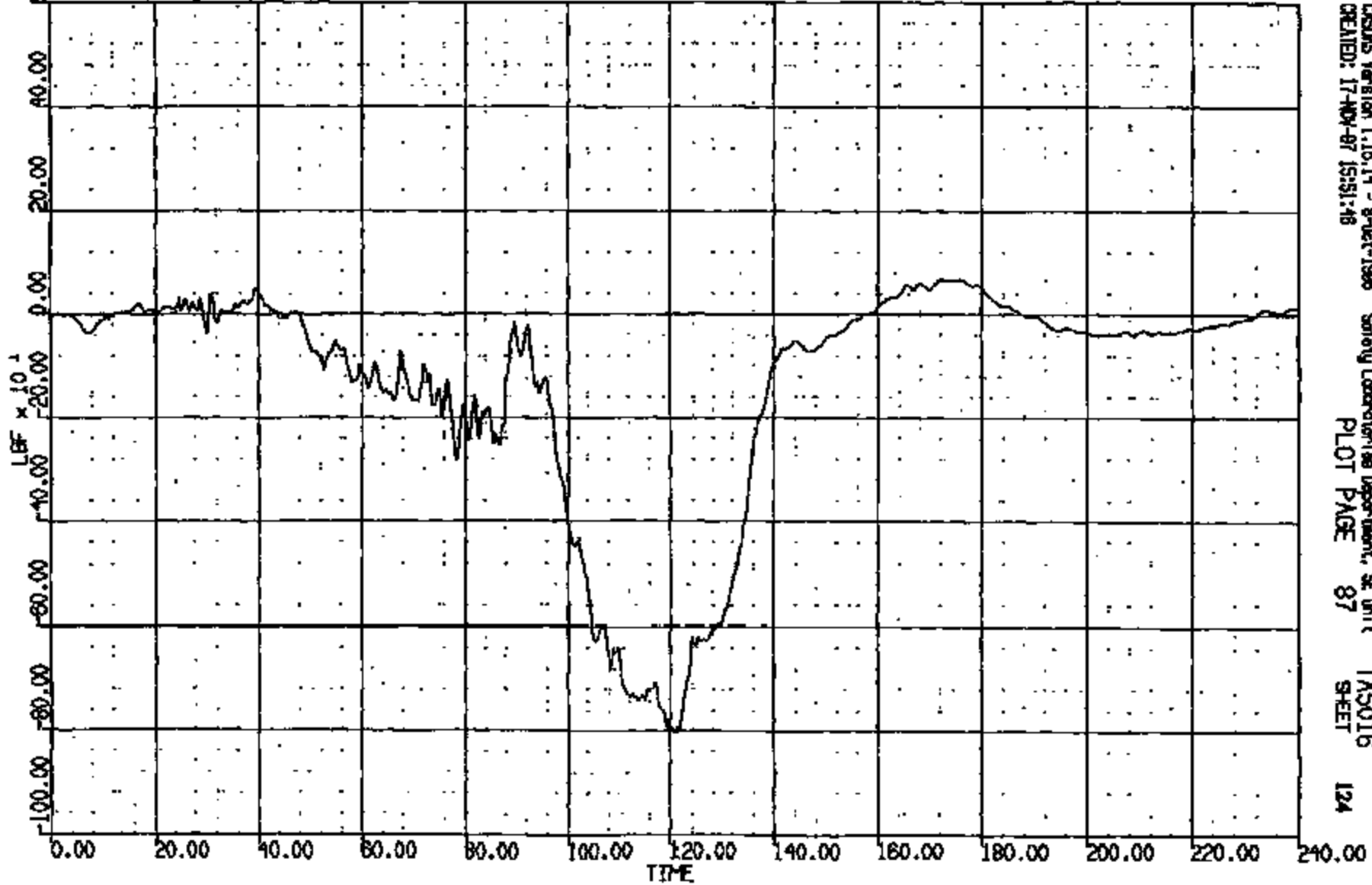
TAS016  
SHEET

129

CRTS 0010921

DR R: 10821 TO: T45016 DATE: 871117 14:41:55  
D-188

(40) CR10321T STEERING COLUMN LOAD FX 600C  
MAX = 67.35 at 174.1 MS MIN = -803.8 at 121.0 MS **AXIS 1**



CADSYS Version 1.18.14 - 8-Oct-1988  
CREATED: 17-NOV-87 15:51:48

Safety Laboratories Department, SE Unit  
PLOT PAGE 87

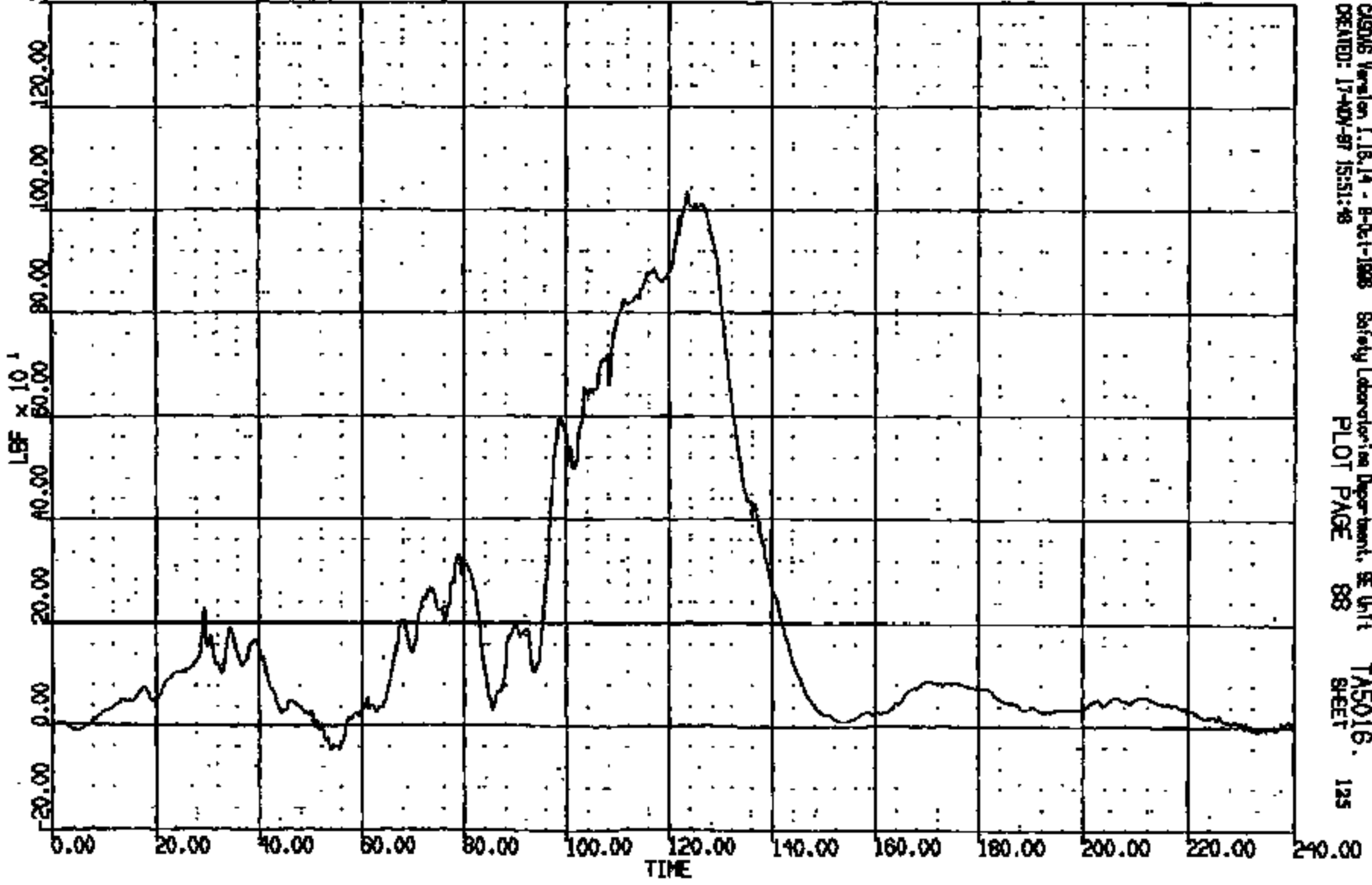
T45016  
SHEET

124

CRTS 0010921

CR R: 10921 TO: TA5016 DATE: 871117 14:41:53  
0-199

(4) CR10921T STEERING COLUMN LOAD FY 600C  
MAX = 1036. at 123.4 MS MIN = -48.53 at 59.00 MS **AXIS 1**

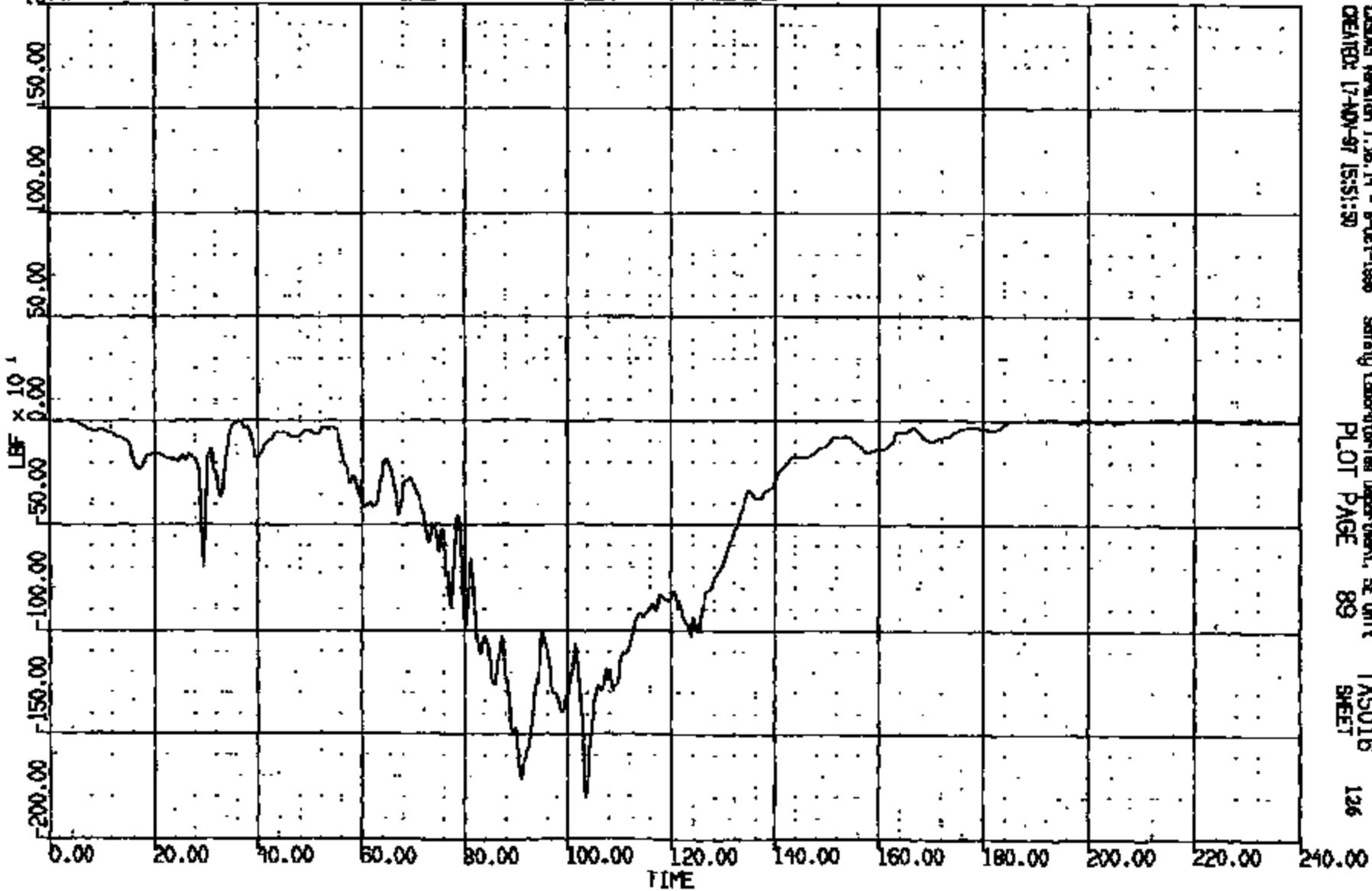


CR10921 Version 1.18.14 - 8-26-1988 Safety Laboratory Department, SE Unit TA5016  
CREATED: 17-NOV-87 15:51:48 PLOT PAGE 88 SHEET 125

CR10921

CR #: 10821 TO: TAS016 DATE: 971117 14:41:53  
D-198

(42) CR10921T STEERING COLUMN LOAD FZ 600C  
MAX = 11.79 at 218.4 MS MIN = -180.1 at 103.7 MS **AXIS 1**

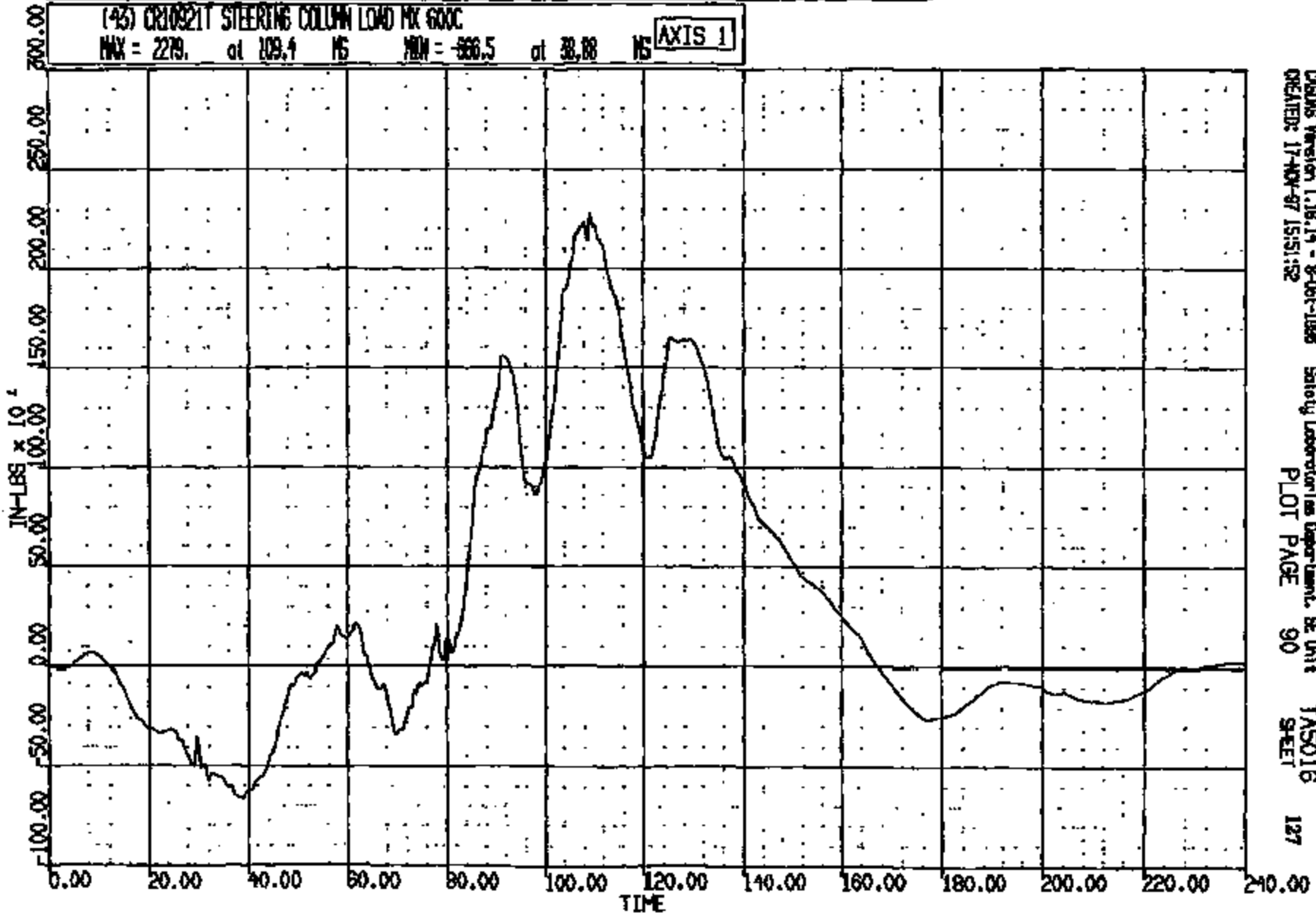


CUSTOM Version 1.16.14 - 8-Oct-1996 Safety Laboratories Department, SE Unit TAS016 126  
CREATED: 17-NOV-97 15:51:30 PLOT PAGE 89 SHEET

CRTS 0010921

CR #: 10821 TO: TASC18 DATE: 971117 14:41:58  
D-188

(43) CR10321T STEERING COLUMN LOAD PK 600C  
MAX = 2279. at 109.4 MS MIN = -566.5 at 38.08 MS **AXIS 1**

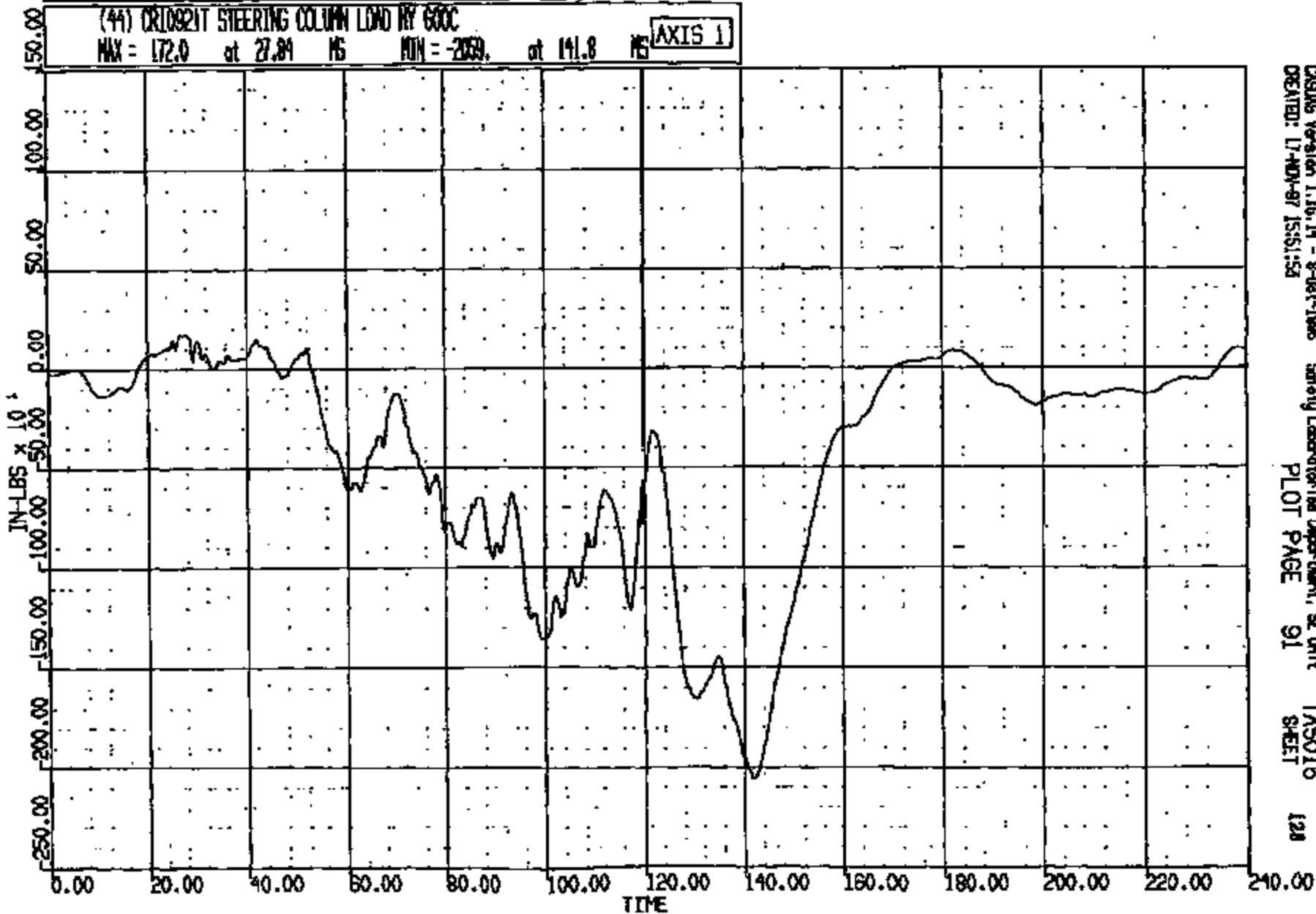


DASHS Version 1.18.14 - 8-Oct-1998 Safety Laboratories Department, SE Unit TASC18 127  
CREATED: 17-NOV-97 15:51:52 PLOT PAGE 90 SHEET

CRTS 0010921

CR R: 10921 TO: TAS016 DATE: 971117 14:41:56  
D-106

(44) CR10921T STEERING COLUMN LOAD BY GOOD  
MAX = 172.0 at 27.84 MS MIN = -205.9 at 141.8 MS **AXIS 1**



CASMS Version 1.16.14 - 8-Oct-1995  
CREATED: 17-NOV-97 15:51:53

Safety Laboratories Department, SE Unit  
PLOT PAGE 91

TAS016  
SHEET

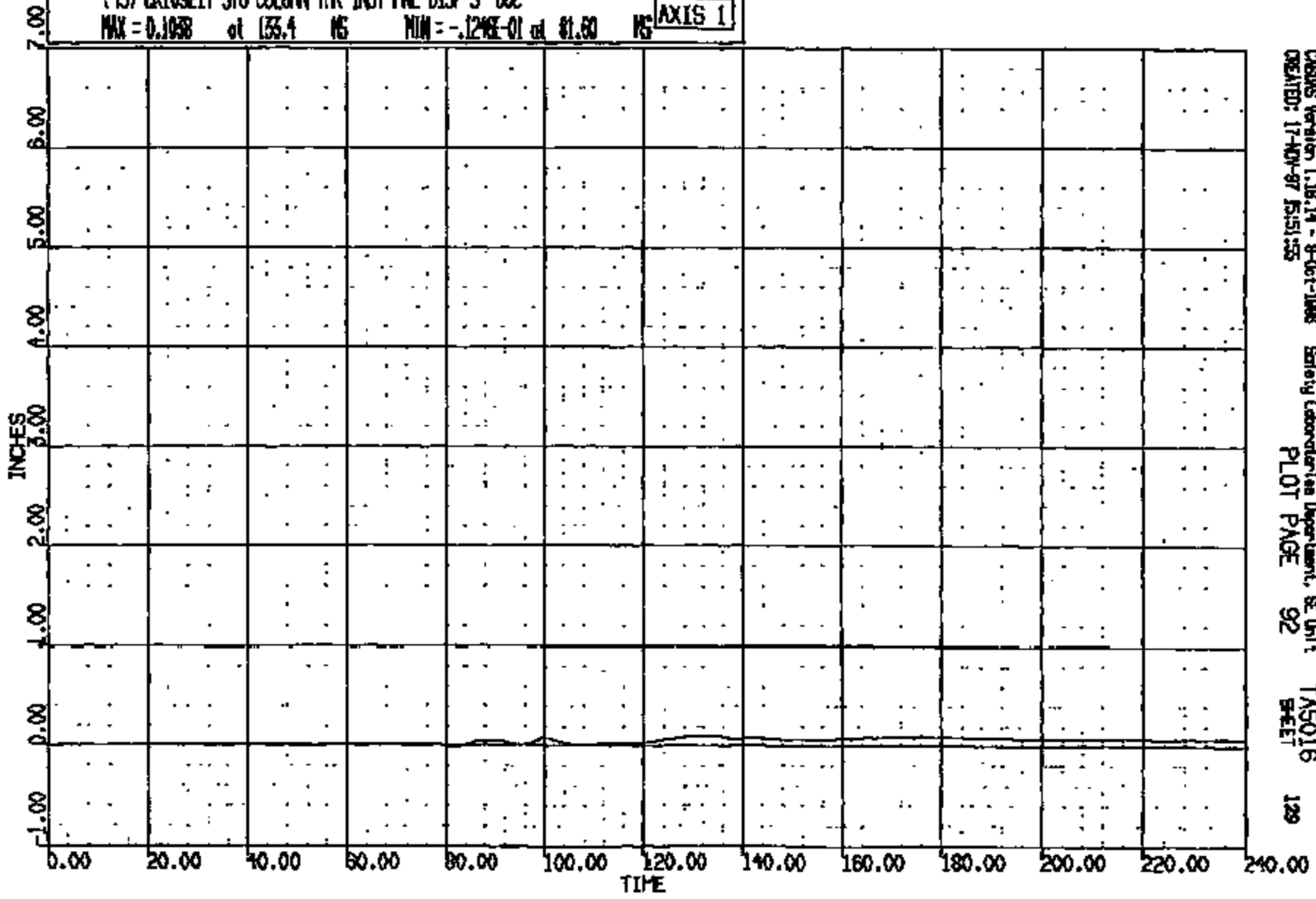
128

CRIS 0010921



CR R: 10921 TO: TA5016 DATE: 971117 14:41:55  
D: 198

(45) CR10321T 576 COLUMN 7HR INST PNL DISP S GDC  
MAX = 0.1038 at 155.4 MS MIN = -.124E-01 at 81.60 MS **AXIS 1**

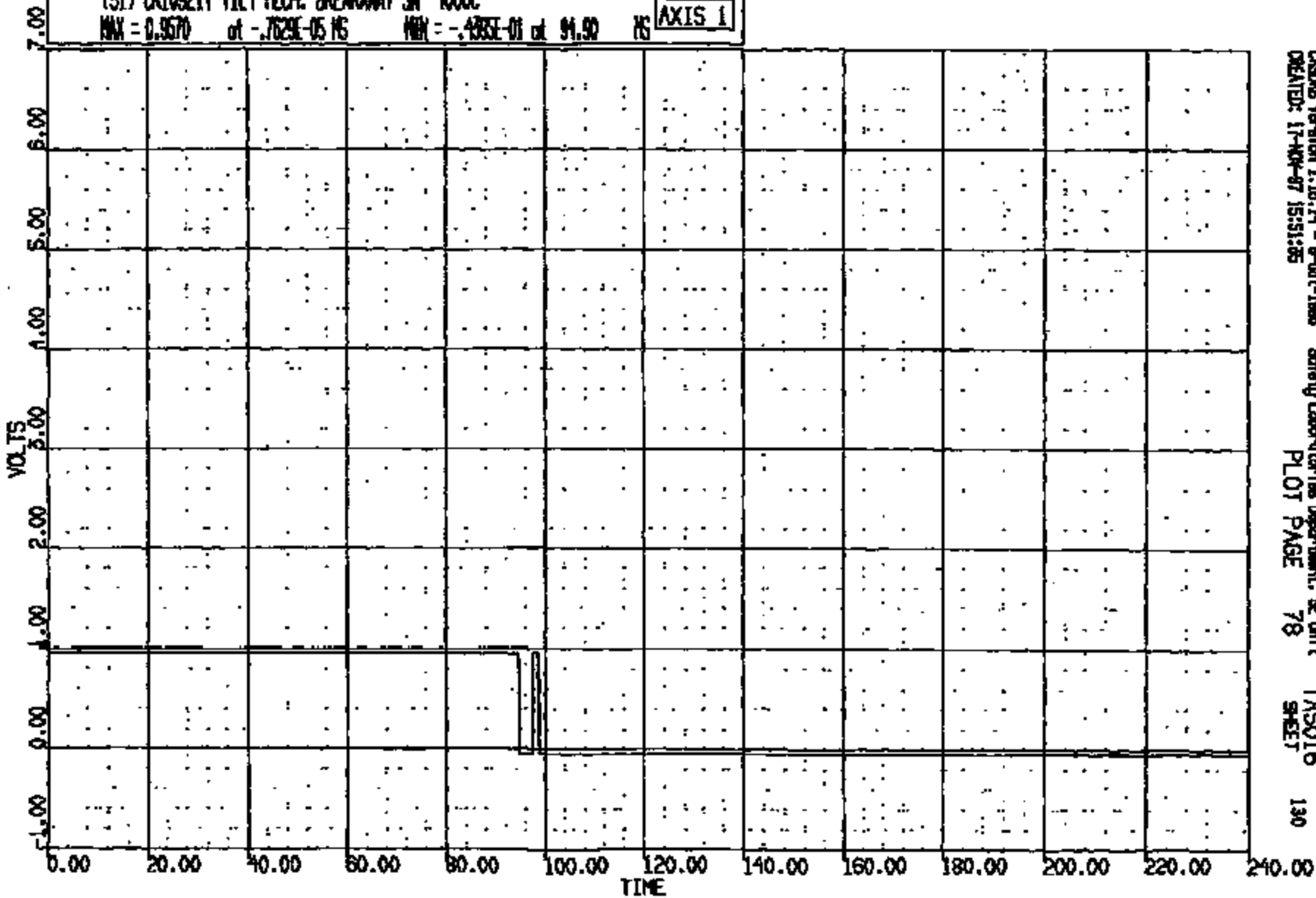


CASIMS Version 1.16.14 - 8-Oct-1998 Safety Laboratories Department, SE Unit TA5016 129  
CREATED: 17-NOV-97 15:51:55 PLOT PAGE 92 SHEET

CRIS 0010921

CR R: 10921 TO: TAS016 DATE: 971117 14:41:58  
D-195

(31) DR10921 TILT MECH. BREAKAWAY SN 1000C  
MAX = 0.9570 at -.7629E-05 MS MIN = -.4935E-01 at 91.90 MS **AXIS 1**



CADDS Version 1.16.14 - 9-Jul-1995  
CREATED: 17-MAR-97 15:51:35

Safety Laboratories Department, SE Unit  
PLOT PAGE 78

TAS016  
SHEET

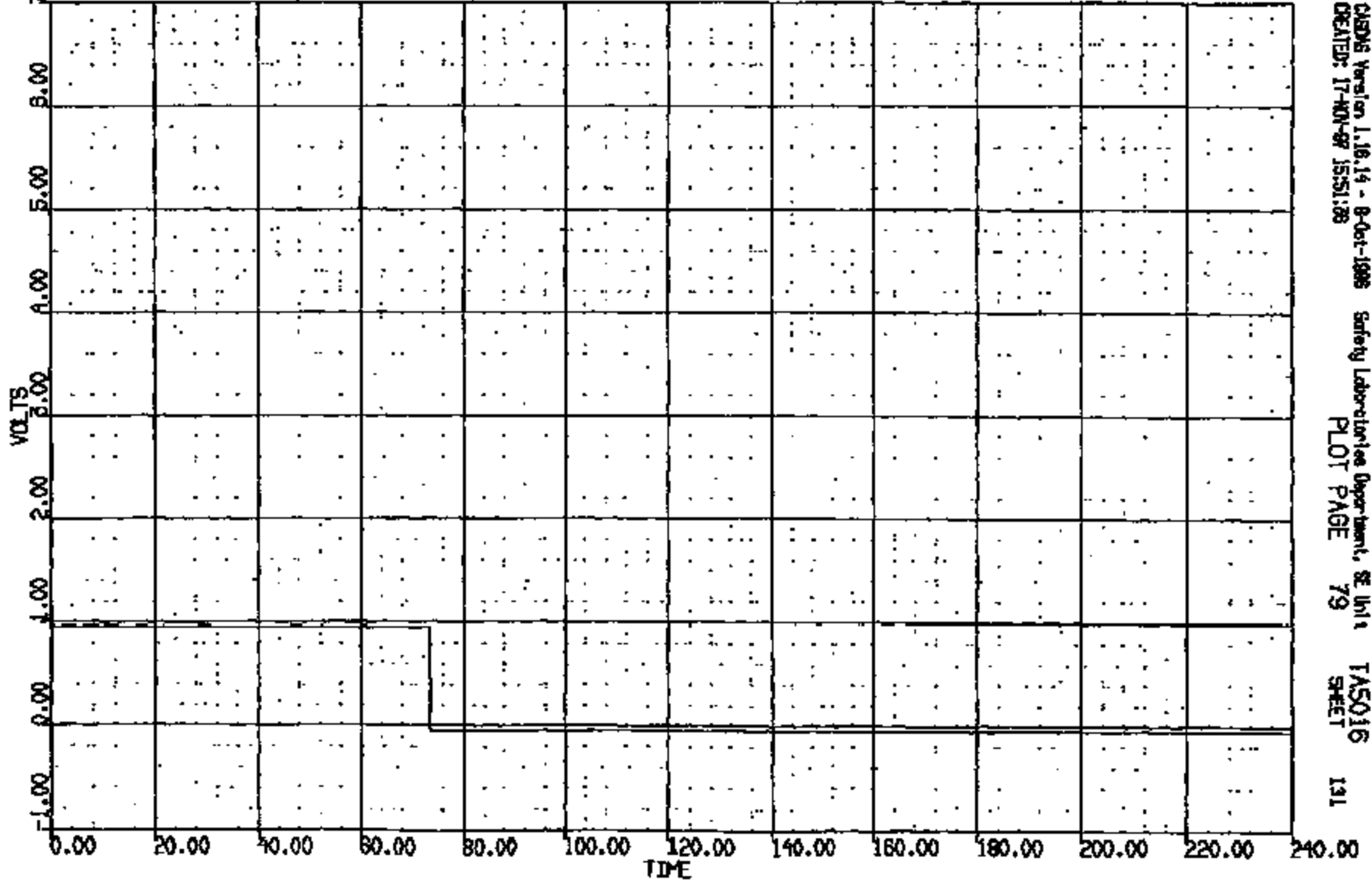
130

CRIS 0010921

CR R: 10921 TO: TAB016 DATE: 971117 14:41:53  
D-106

(32) CR10921T STR COI HWI BREAKAWAY LEFT SM 4000C  
MAX = 0.9570 at -752E-05 MS MIN = -.435E-01 at 73.40 MS

AXIS 1



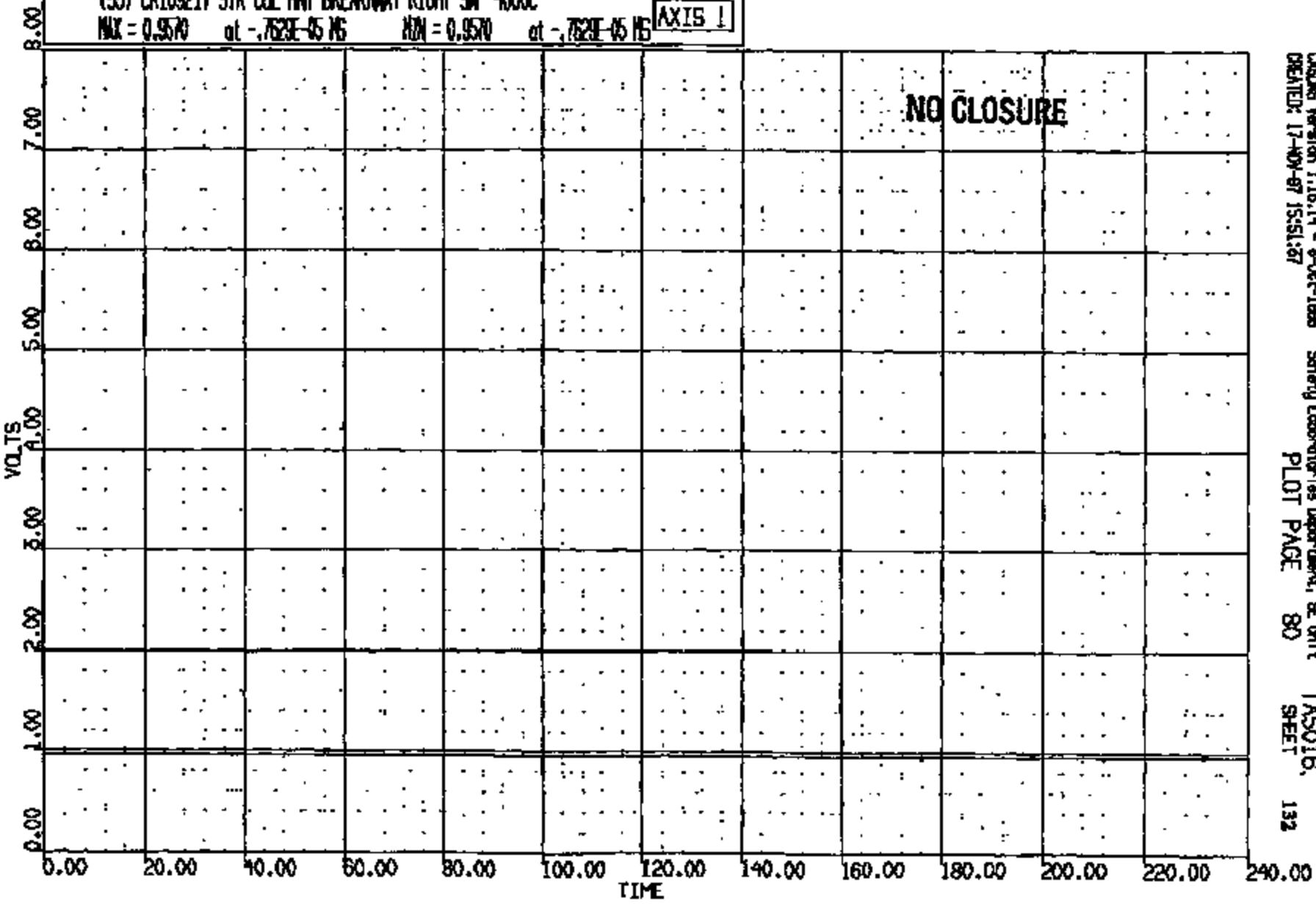
CASMS Version 1.16.14 - 8-Oct-1998 Safety Laboratories Department, SE Unit 1  
CREATED: 17-MON-97 15:51:28 PLOT PAGE 79 SHEET 131

CRIS 0010921

CR R: 10921 TO: TA5016 DATE: 971117 14:41:53  
0-168

(35) CR10921T STR COIL MNT BREAKAWAY RIGHT SM 4000C  
MAX = 0.9570 at -.7523E-05 MS MIN = 0.9570 at -.7523E-05 MS

AXIS 1



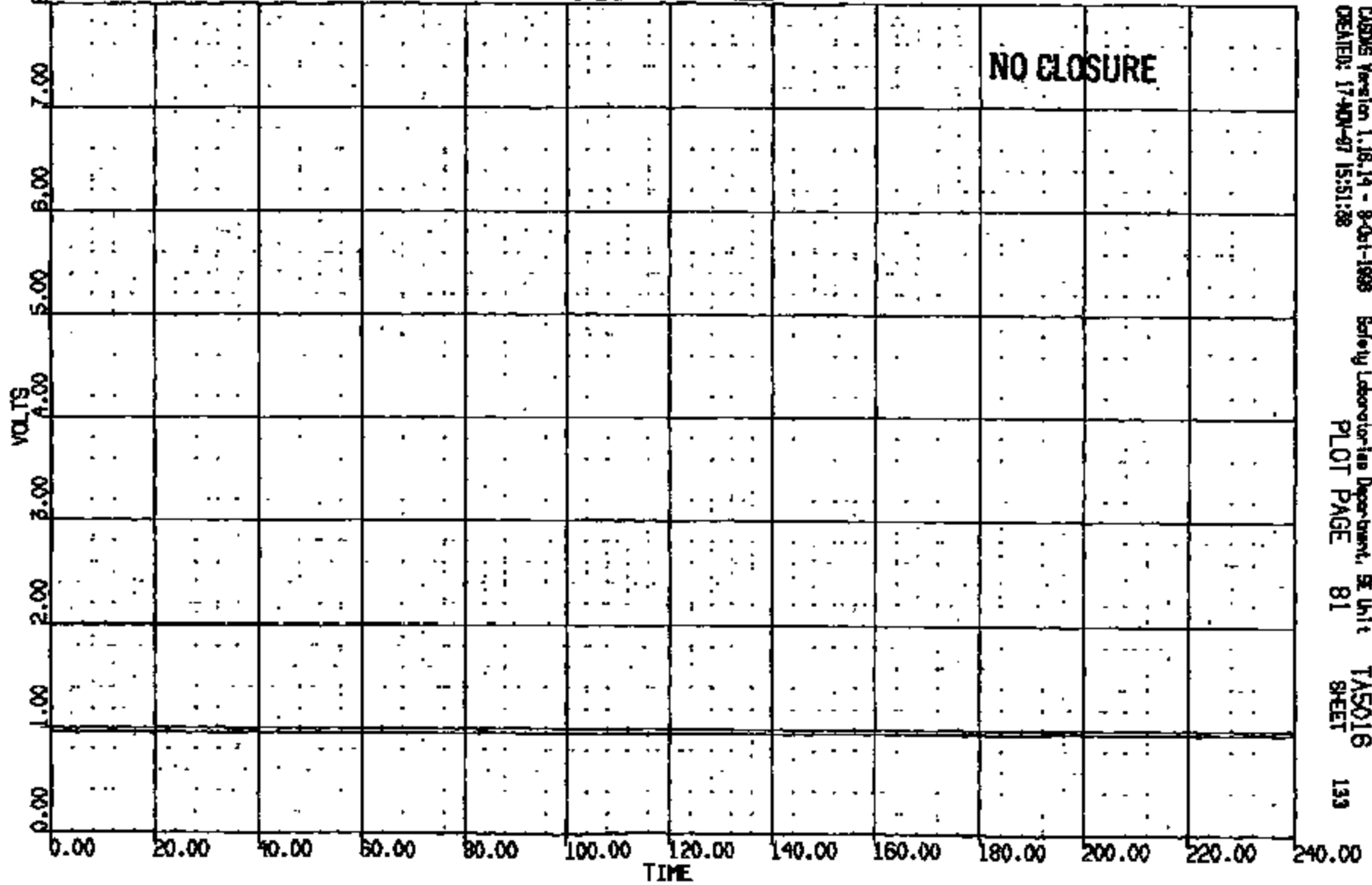
CASAS Version 1.16.14 - 8-Oct-1988 Safety Laboratories Department, GE Unit  
CREATED: 17-NOV-87 15:51:37 TA5016, 132  
PLOT PAGE 80 SHEET

CRIS 0010921

CR R: 10921 TO: TASS016 DATE: 871117 14:41:55  
0-196

(34) CR10921T DECOUPLER INTERMED SHFT #1 SN 4000C  
MAX = 0.9570 at -.7629E-05 MS MIN = 0.9570 at -.7629E-05 MS

AXIS 1



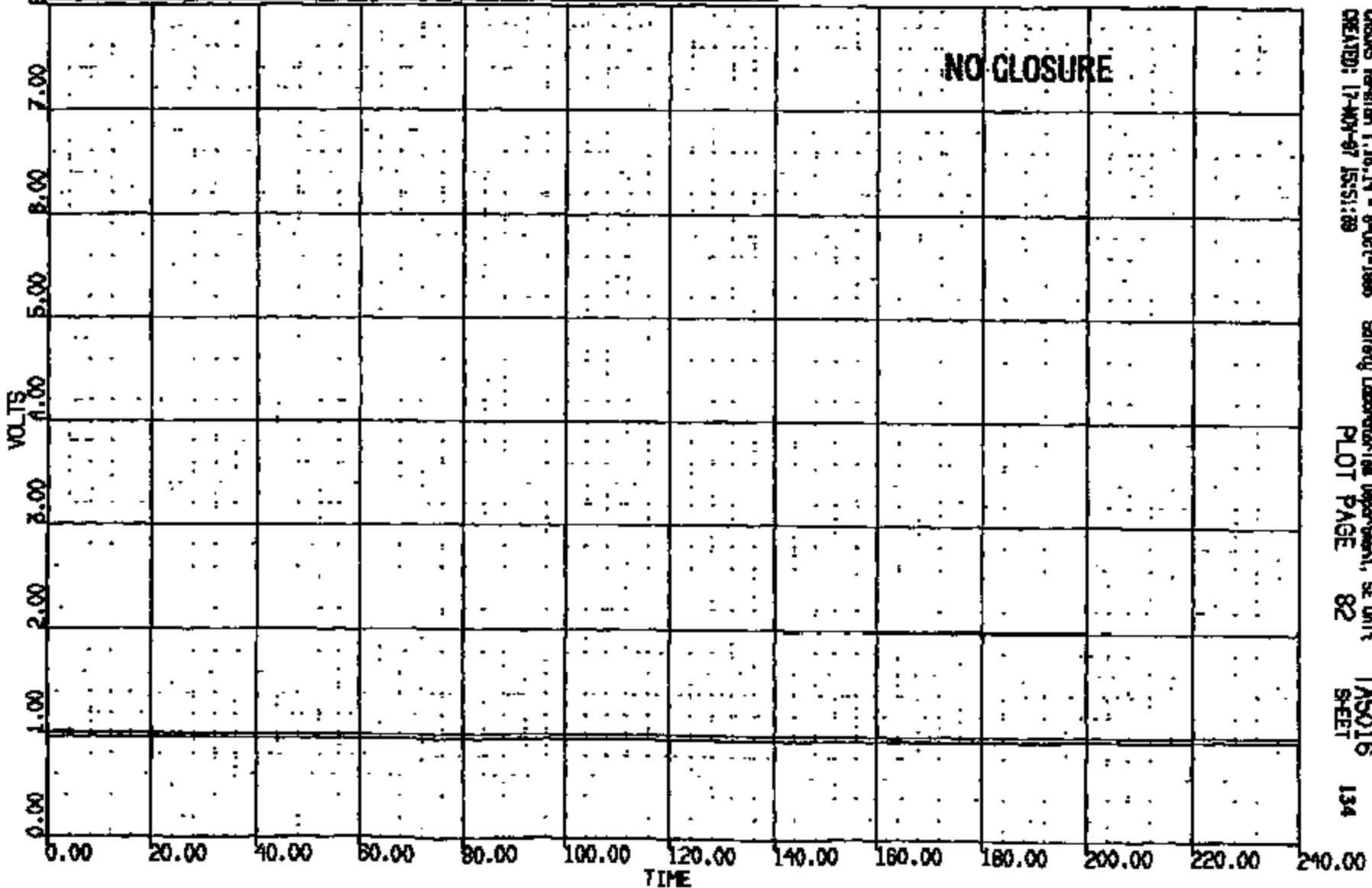
CADDS Version 1.18.14 - 8-Oct-1988 Safety Laboratory Department, SE Unit TASS016  
CREATED: 17-NOV-87 15:51:28 PLOT PAGE 81 SHEET 133

CRIS 0010921

CR R: 10821 TO: TASC16 DATE: 971117 14:41:38  
0-188

(35) CR10321T DECOUPLER INTERMED SHAFT #2 SW 4000C  
MAX = 0.9570 of -.7629E-05 MS MIN = 0.3570 of -.7629E-05 MS

AXIS 1



CASUS Version 1.16.14 - 8-Oct-1988  
CREATED: 17-MAY-97 15:51:28

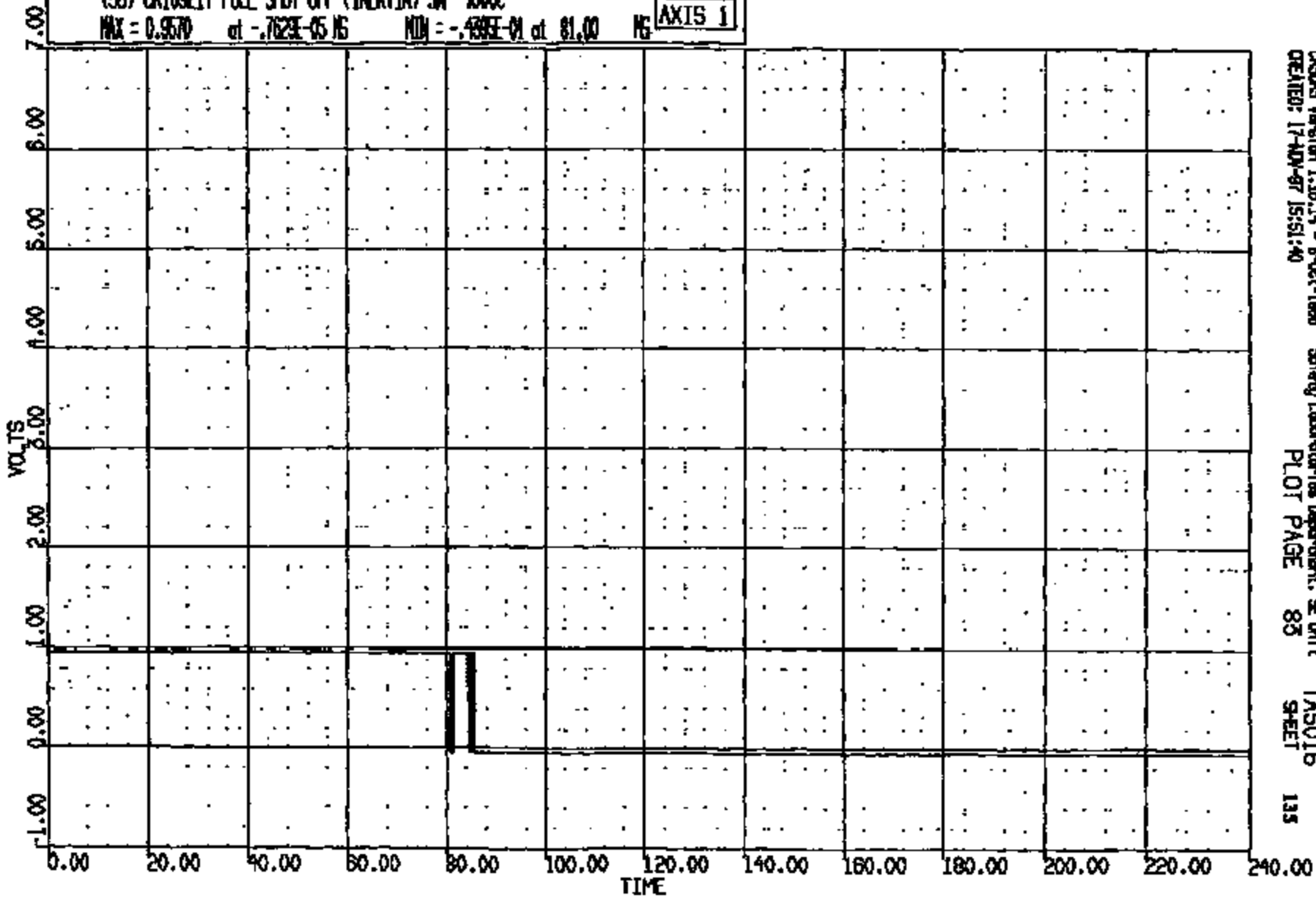
Safety Laboratories Department, SE Unit  
PLOT PAGE 82

TASC16  
SHEET 134

CRTS 0010921

CR R: 10921 TO: TA5016 DATE: 871117 14:41:53  
0-188

(36) CR1032LT FUEL SHUT OFF (INERTIA) SW 4000C  
MAX = 0.9570 at -.762E-05 NS MIN = -.439E-01 at 81.00 NS **AXIS 1**



CASONS Version 1.1B.14 - 8-Oct-1988  
CREATED: 17-NOV-87 15:51:40

Safety Laboratories Department, SE Unit  
PLOT PAGE 83

TA5016  
SHEET

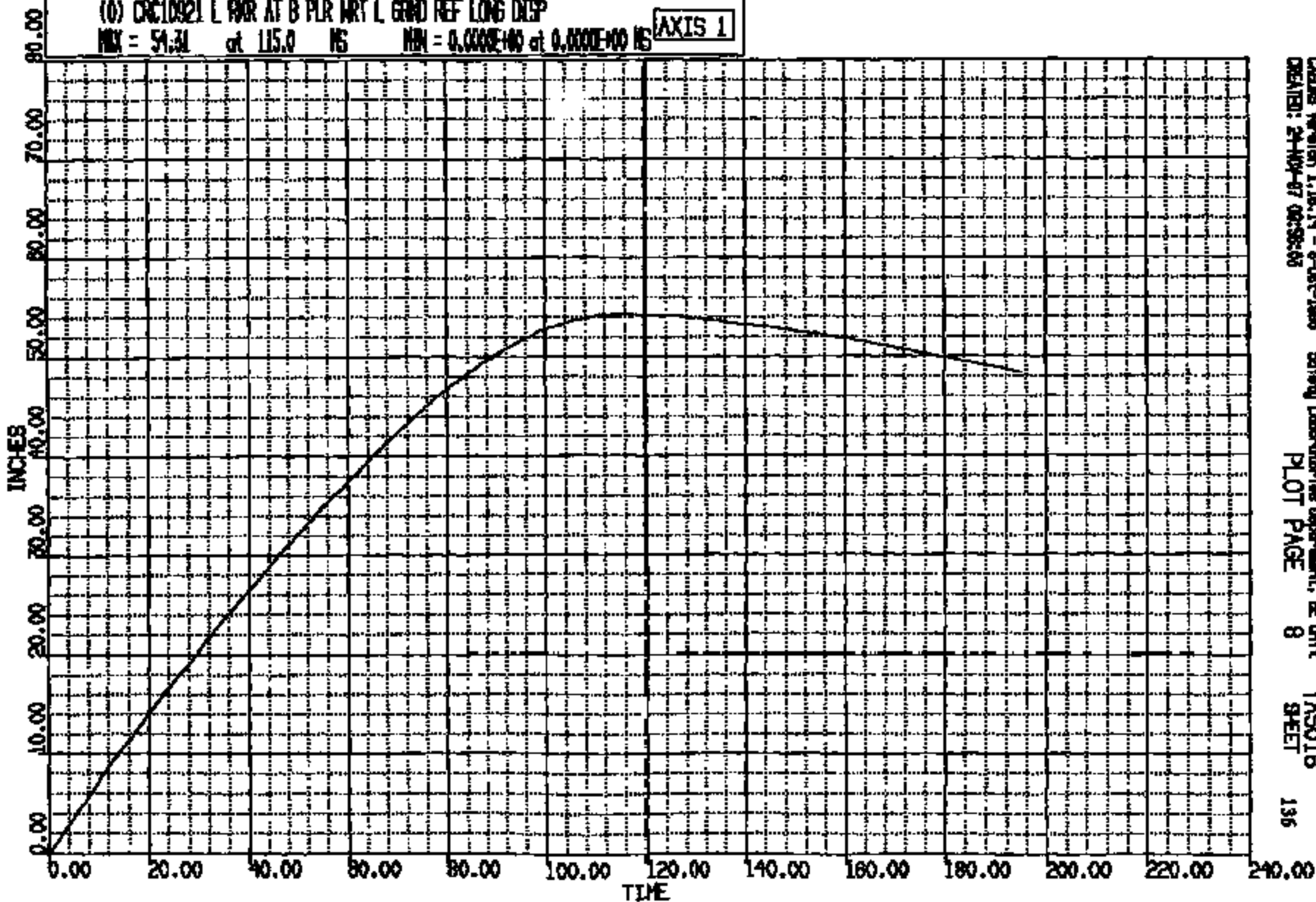
135

CRTS 0010921

DIR RE 10921 TO: TAB018 DATE: 871117 14:41:55  
1.180

(0) CRTS0010921 L WDR AT B PLR ART L GRID REF LONG DEEP  
MAX = 51.31 at 115.0 MS MIN = 0.000E+00 at 0.000E+00 MS

AXIS 1



CRS0010921 1.18.14 - 8-Oct-1988 Safety Laboratories Department, BE Unit TAB018  
CREATED: 24-NOV-87 08:35:50 PLOT PAGE 8 SHEET 136

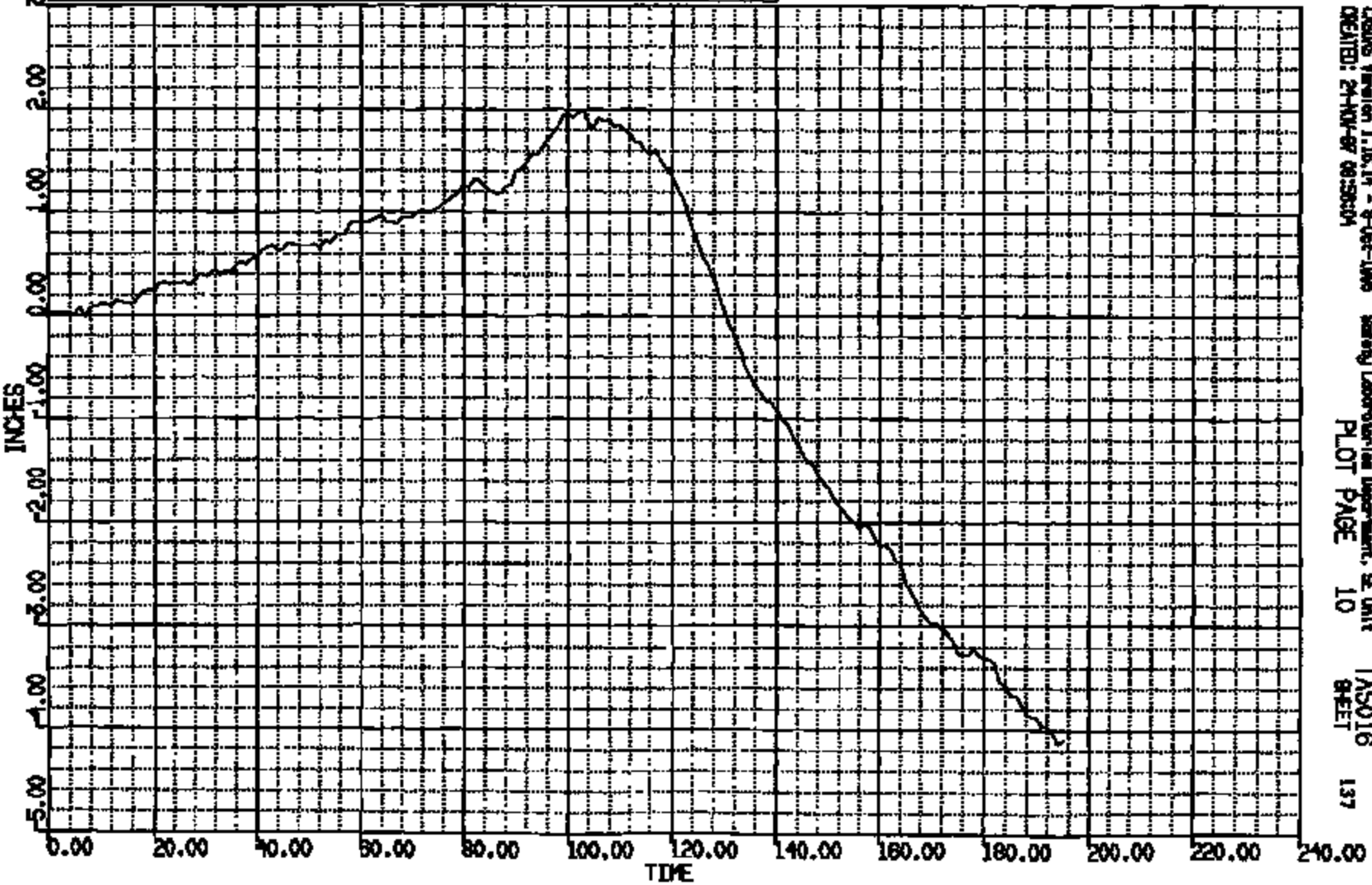
CRTS 0010921



00 1.00: 10821 TO: TA5016 DATE: 971117 14:41:53

(0) CMCY0821 L ARR AT B PER WY L SAND REF VERT DISP  
MAX = 2.06 at 103.0 MS MIN = -4.125 at 191.0 MS

AXIS 1



CREATOR: Yusefion, J. B. 14 - 8 Oct 1996  
CREATED: 24-Nov-97 08:59:04

Safety Laboratory Department, E Unit  
PLOT PAGE 10

TA5016  
SHEET

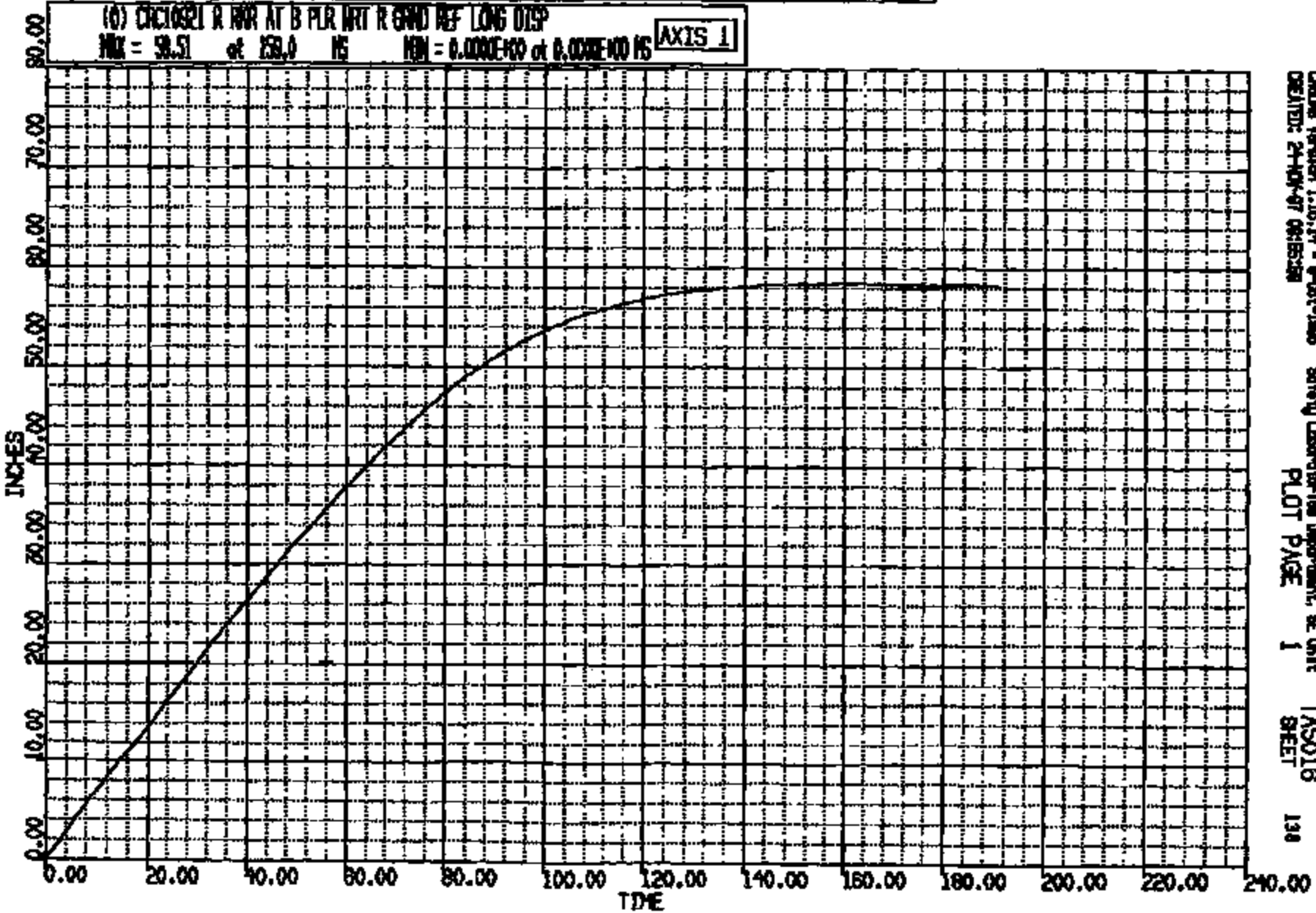
137

CRTS 0010921

DD 1.78 10621 TO: TASO16 DATE: 971117 14:41:58

(0) CIRCLES R WRT AT B PLR WRT R END REF LONG DISP  
MAX = 38.51 at 232.0 NS MIN = 0.000E+00 at 0.000E+00 NS

AXIS 1



CADWG Yenken 1.10.14 - 9-10-1-1998

Safety Laboratories Department, SE Unit

TASO16

138

CREATED: 24-MAR-97 08:55:58

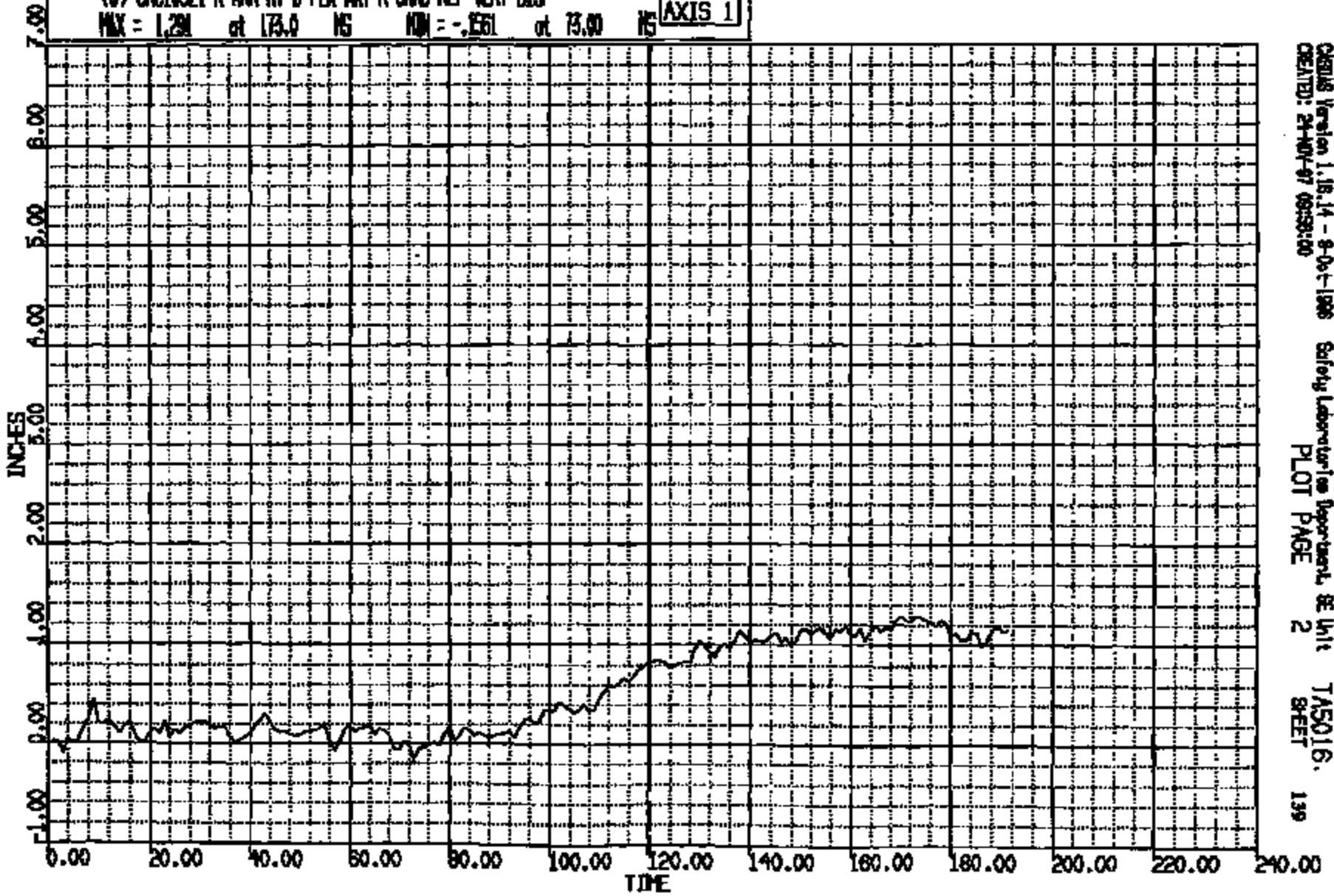
PLOT PAGE 1

SHEET

CRTS 0010921

CR R: 10921 TO: T5016 DATE: 971117 14:41:53  
U-168

(0) CR10921 R RWR AT B PLR WRT R GND REF VERT DISP  
MAX = 1.291 at 173.0 NS MIN = -.8561 at 73.00 NS **AXIS 1**



CRSIS Version 1.18.14 - 9-04-1998  
CREATED: 24-NOV-97 09:53:00

Safety Laboratory Department, BE Unit  
PLOT PAGE 2

T5016.  
SHEET 139

CRIS 0010921

ASC TO #: T- TA6016

DIMENSIONAL ANALYSIS REPORT

CRASH #: 10921

VEHICLE INFORMATION

TEST DESCRIPTION: 90 DEG FRONT 40% OFF FIXED DEF BARRIER  
VEHICLE PROGRAM YEAR:  
VEHICLE MODEL NAME: TAURUS  
VEHICLE PROGRAM NAME: D-106  
VEHICLE ID NUMBER:  
CERTIFICATION VEHICLE CODES:  
REQUESTOR NAME: S. B. BLANK  
TEST ENGINEER NAME: L. STOCKTON

TIME AND DATE OF REPORT: 25-NOV-97 09:47:44

CRTS 0010921

140

T-AB016

UNIT NO	SIDE	PRT NO	DESCRIPTION	** POINT COORDINATES **			INCHES CRAWLED				
				LONG X	LAT Y	VERT Z	X	Y	Z	D	
070			SEE COMMENT SHEET								
		10	LEFT HYBRID LIT "H" FT REL. TO WPT/SILL/TARGET	REF AFT	10.70		11.50				
071			MISCELLANEOUS / SIDED								
	L	07	CONTROL NOTCH/HOLE C/L DET DR/SIDE MEAS./PASS.	REF AFT	93.61	-26.61	14.42				
	R	07	CONTROL NOTCH/HOLE C/L DET DR/SIDE MEAS./PASS.	REF AFT	93.38	26.46	14.25				
075			CNH POSITIONING / SIDED								
	L	41	CNH FRONT DOOR OPENING A PILLAR SMOOV	REF AFT	109.35	-24.72	56.30				
	R	41	CNH FRONT DOOR OPENING A PILLAR SMOOV	REF AFT	109.61	23.98	56.06				
	L	42	CNH FRONT DOOR OPENING* A PILLAR (& STR.6)WEL	REF AFT	88.20	-30.66	40.91				
	R	42	CNH FRONT DOOR OPENING* A PILLAR (& STR.6)WEL	REF AFT	88.07	30.50	40.75				
	L	43	CNH FRONT DOOR OPENING* A PILLAR (& STR.6)WEL	REF AFT	90.07	-31.67	18.63				
	R	43	CNH FRONT DOOR OPENING* A PILLAR (& STR.6)WEL	REF AFT	90.30	31.27	18.43				
	L	44	CNH FRONT DOOR OPENING ROCKER ON PILLAR	REF AFT	121.22	-31.51	17.77				
	R	44	CNH FRONT DOOR OPENING ROCKER ON PILLAR	REF AFT	120.39	22.52	17.43				

\* VALUE WAS TRANSLATED

TIME AND DATE OF REPORT: 25-NOV-97 09:47:44

PAGE 1

CRIS 0010921

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F-AB016

UNIT NO	SIDE	FRT NO	DESCRIPTION	** POINT COORDINATES **			INCHES CHANGED				
				LONG X	LAT Y	VERT Z	X	Y	Z	D	
124			TOP (BODY) NON SIDED								
		03	STEERING RACK OR GEAR BOX @ INPUT SHAFT	REF AFT	75.36	-8.35	24.19				
		04	BOTTOM JKT. OF ST.SHAFT (U OR RAG) @ INPUT SHAFT	REF AFT	77.86	-9.04	26.74				
		09	CONTROL POINT LEFT REAR SILL	REF AFT	158.85	-31.64	14.68				
		11	BUMPER @ LEFT CURVE FRONT	REF AFT	34.16	-26.31	22.31				
		12	BUMPER @ LEFT MOUNTING FRONT	REF AFT	31.84	-22.30	22.22				
		13	BUMPER @ CENTERLINE FRONT	REF AFT	30.33	0.81	22.18				
		14	BUMPER @ RIGHT MOUNTING FRONT	REF AFT	31.34	19.92	22.06				
		15	BUMPER @ RIGHT CURVE FRONT	REF AFT	34.14	28.84	22.14				
		17	ENGINE POINT (RELATIVE)	REF AFT	56.45	0.29	37.33				
		18	CONL POINT (RELATIVE)	REF AFT	76.69	4.69	39.84				
		21	BOOF @ C/L OF VEHICLE (RELATIVE) @ (W/S)	REF AFT	108.16	0.38	59.96				
		22	RIGHT "A" PILLAR @ ROOFRAIL (W/S)	REF AFT	109.36	23.88	57.67				
		23	RIGHT "A" PILLAR @ BELTLINE (W/S)	REF AFT	88.09	30.50	40.75				

\* VALUE WAS TRANSLATED

TIME AND DATE OF REPORT: 25-NOV-97 09:47:44

PAGE 2

ASC TO #: T- TAB016

DIMENSIONAL ANALYSIS REPORT

CRASH #: 10921

UNIT NO	SIDE	FRT NO	DESCRIPTION		** POINT COORDINATES **			INCHES CHANGED			
					LONG X	LAT Y	VERT Z	X	Y	Z	D
25			CONL RIGHT @ OCCUPANT CENTERLINE (W/S)	BEF AFT	72.29	13.48	42.22				
26			CONL @ C/L OF VEHICLE (W/S)	BEF AFT	71.93	-0.64	42.72				
27			CONL LEFT @ OCCUPANT CENTERLINE (W/S)	BEF AFT	73.00	-16.71	42.15				
29			LEFT "A" PILLAR @ SEATLINE (W/S)	BEF AFT	82.61	-31.67	42.08				
30			LEFT "A" PILLAR @ ROOF RAIL (W/S)	BEF AFT	109.34	-23.21	57.71				
41			STEERING COLUMN MOUNT INBOARD UPPER	BEF AFT	92.42	-10.02	34.72				
42			STEERING COLUMN MOUNT OUTBOARD UPPER	BEF AFT	92.12	-17.32	34.56				
43			STEERING COLUMN MOUNT INBOARD LOWER	BEF AFT	86.85	-9.90	32.64				
44			STEERING COLUMN MOUNT OUTBOARD LOWER	BEF AFT	86.15	-17.26	32.37				
46			TOP INBOARD BRAKE BRACKET	BEF AFT	75.54	-15.09	32.63				
47			TOP REAR BRAKE BRACKET	BEF AFT	80.81	-16.43	33.27				
48			BOTTOM INBOARD BRAKE BRACKET	BEF AFT	75.65	-15.13	28.98				
49			TOP JOINT ON INTERM. STEERING SHAFT	BEF AFT	84.84	-13.39	32.37				
51			TOP/1 STEERING WHEEL PERIPHERY	BEF AFT	102.91	-14.12	47.43				

\* VALUE WAS TRANSLATED

TIME AND DATE OF REPORT: 95-NOV-97 09:47:45

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CRIS 0010921

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F-AS016

ASC TO #: T- 2A5016

DIMENSIONAL ANALYSIS REPORT

CRASH #: 10921

UNT NO	SIDE	PNT NO	DESCRIPTION		** POINT COORDINATES **			INCHES CHANGED			
					LONG X	LWT Y	VERT Z	X	Y	Z	D
52	RIGHT/3		STEERING WHEEL PERIPHERY	REF AFT	105.70	-7.72	10.44				
53	BOTTOM/3		STEERING WHEEL PERIPHERY	REF AFT	107.85	-14.83	34.04				
54	LEFT/4		STEERING WHEEL PERIPHERY	REF AFT	105.00	-21.67	40.10				
55			STEERING WHEEL HUB NUT @ C/L	REF AFT	100.19	-14.39	38.85				
59			TOP SHAFT OF DECOUPLE JOINT @ SLIDE PIN	REF AFT	91.88	-12.55	30.12				
60			BOTTOM SHAFT OF DECOUPLE JT. @ SLIDE PIN	REF AFT	91.97	-12.76	30.42				
61			STEERING COLUMN COVERING LEFT HANDLE #61 (F/P)	REF AFT	76.01	-11.92	26.63				
62			STEERING COLUMN COVERING BOTTOM #62 (F/P)	REF AFT	76.58	-8.85	23.15				
63			STEERING COLUMN COVERING RIGHT HANDLE #63 (F/P)	REF AFT	76.02	-8.81	26.55				
64			DASH PANEL POINT #64 DRIVER/S LOWER MID (F/P)	REF AFT	76.14	-15.12	25.60				
65			TORQUE BOARD POINT #65 DRIVER SIDE @ MID (F/P)	REF AFT	81.24	-15.24	17.01				
66			TUNNEL POINT #66 DRIVER/S @ FRONT (F/P)	REF AFT	80.87	-4.34	17.96				
67			TUNNEL POINT #67 DRIVER/S @ REAR (F/P)	REF AFT	105.14	-4.11	17.94				
69			DASH PANEL POINT #69 DASH/S LOWER MID (F/P)	REF AFT	74.66	10.88	26.95				

\* VALUE WAS TRANSLATED

TIME AND DATE OF REPORT: 25-NOV-97 09:47:45

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CRIS 0010921

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P-AB016



UNIT NO	SIDE	HWT NO	DESCRIPTION	** POINT COORDINATES **			INCHES CHANGED				
				LONG X	LAT Y	VERT Z	X	Y	Z	D	
		70	TOP BOARD POINT # 70 PASS/S @ MIDDLE (F/P)	BEF AFT	81.47	10.70	17.37				
		71	TUNNEL POINT # 71 PASS/S @ FRONT (F/S)	BEF AFT	80.35	4.25	18.82				
		72	TUNNEL POINT # 72 PASS/S @ REAR (R/P)	BEF AFT	105.15	3.05	18.45				
		80	INSTRUMENT BASEL (INCL)	BEF AFT	99.40	-25.10	36.68				
		81	UPPER COWL POINT # 81 LEFTMOST SIDE	BEF AFT	84.61	-26.49	41.94				
		82	UPPER COWL POINT # 82 LEFT SIDE	BEF AFT	79.20	-14.95	42.65				
		83	UPPER COWL POINT # 83 CENTERLINE	BEF AFT	75.95	0.65	43.09				
		84	UPPER COWL POINT # 84 RIGHT SIDE	BEF AFT	79.24	14.91	42.64				
		85	UPPER COWL POINT # 85 RIGHTMOST SIDE	BEF AFT	84.66	26.23	41.45				
		91	LOWER COWL POINT # 91 LEFTMOST SIDE	BEF AFT	84.54	-26.40	37.97				
		92	LOWER COWL POINT # 92 LEFT SIDE	BEF AFT	81.70	-14.92	38.34				
		93	LOWER COWL POINT # 93 CENTERLINE	BEF AFT	79.13	0.48	39.36				
		94	LOWER COWL POINT # 94 RIGHT SIDE	BEF AFT	80.89	14.85	39.54				
		95	LOWER COWL POINT # 95 RIGHTMOST SIDE	BEF AFT	84.69	26.15	38.03				

\* VALUE WAS TRANSLATED

TIME AND DATE OF REPORT: 25-NOV-97 09:47:45

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ASC TO #: T- YAS016

## DIMENSIONAL ANALYSIS REPORT

CRASH #: 10921

UNIT NO	PNT NO	DESCRIPTION	REF APT	** POINT COORDINATES **			INCHES CHANGED			
				LONG X	LAT Y	VERT Z	X	Y	Z	D
	96	CONTROL POINT RIGHT REAR HILL	REF APT	158.76	31.47	14.88				
125		TOP (BODY) SIDED								
L	11	SHOT_GUN POINT # 11 FRONT OF FENDER	REF APT	47.95	-26.97	35.90				
R	11	SHOT_GUN POINT # 11 FRONT OF FENDER	REF APT	48.07	26.61	35.83				
L	12	SHOT_GUN POINT # 12	REF APT	56.55	-27.60	37.88				
R	12	SHOT_GUN POINT # 12	REF APT	56.48	27.25	37.75				
L	13	SHOT_GUN POINT # 13	REF APT	63.00	-27.97	38.91				
R	13	SHOT_GUN POINT # 13	REF APT	63.00	27.76	38.87				
L	14	SHOT_GUN POINT # 14 REAR OF FENDER	REF APT	70.90	-27.83	39.83				
R	14	SHOT_GUN POINT # 14 REAR OF FENDER	REF APT	70.85	27.73	39.86				
L	24	FRONT ROCKER HILL TGT. RELATED TO C/S HOLE	REF APT	104.30	-31.98	13.90				
R	24	FRONT ROCKER HILL TGT. RELATED TO C/S HOLE	REF APT	105.50	31.73	13.91				
L	27	" B " PILLAR POINT @ BELT	REF APT	127.36	-31.65	41.59				
R	27	" B " PILLAR POINT @ BELT	REF APT	128.79	31.31	41.27				

\* VALUE WAS TRANSLATED

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DIMENSIONAL ANALYSIS REPORT

\*\* POINT COORDINATES \*\*

DEF NO	SIDE	PWT NO	DESCRIPTION		INCHES			INCHES CHANGED			
					LONG X	LAT Y	VERT Z	X	Y	Z	D
L	28		* WKT * POINT ON ROCKER * " B " FILLAR	DEF AFT	121.26	-31.54	17.76				
R	28		* WKT * POINT ON ROCKER * " B " FILLAR	DEF AFT	120.39	31.52	17.42				
L	31		LATCH/STRIKER BOLT SC/L OR U-BOLTS/STOP @ FILLA	DEF AFT	125.03	-31.41	31.15				
R	31		LATCH/STRIKER BOLT SC/L OR U-BOLTS/STOP @ FILLA	DEF AFT	125.03	31.00	31.13				
L	41		FRONT INBOARD TRACK TO FLOOR	DEF AFT	107.80	-7.01	17.16				
R	41		FRONT INBOARD TRACK TO FLOOR	DEF AFT	107.79	6.78	17.21				
L	42		FRONT OUTBOARD TRACK TO FLOOR	DEF AFT	107.56	-22.30	16.28				
R	42		FRONT OUTBOARD TRACK TO FLOOR	DEF AFT	107.61	22.13	16.34				
L	43		REAR INBOARD TRACK TO FLOOR	DEF AFT	121.09	-5.32	18.17				
R	43		REAR INBOARD TRACK TO FLOOR	DEF AFT	121.17	5.09	15.32				
L	44		REAR OUTBOARD TRACK TO FLOOR	DEF AFT	121.32	-23.35	16.81				
R	44		REAR OUTBOARD TRACK TO FLOOR	DEF AFT	121.40	23.19	16.74				
L	83		TOP BOLT UPPER BELT ATTACHMENT @ "B" FILLAR	DEF AFT	130.84	-24.52	49.47				
R	83		TOP BOLT UPPER BELT ATTACHMENT @ "B" FILLAR	DEF AFT	130.92	24.26	49.55				

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UNIT NO	SIDE	PWT NO	DESCRIPTION	** POINT COORDINATES **			INCHES CHANGED				
				LONG X	LAT Y	VERT Z	X	Y	Z	D	
L	30		" B " POINT ON REAR QUARTER PANEL	BEF AFT	194.06	-33.05	39.21				
R	30		" B " POINT ON REAR QUARTER PANEL	BEF AFT	194.00	32.65	39.21				
141			ROOF (UNITIZED) SIDED								
L	10		FOREMOST POINT ON FRAME	BEF AFT	34.65	-23.17	22.81				
R	10		FOREMOST POINT ON FRAME	BEF AFT	34.44	22.85	22.32				
L	20		NAIL MID-POINT OF #10 & #30	BEF AFT	48.21	-21.93	22.24				
R	20		NAIL MID-POINT OF #10 & #30	BEF AFT	48.42	21.65	22.50				
L	30		FORWARD OF SPRING POCKET	BEF AFT	59.91	-20.24	24.24				
R	30		FORWARD OF SPRING POCKET	BEF AFT	61.30	19.79	24.23				
L	40		POINT AFT OF SPRING POCKET	BEF AFT	72.55	-19.85	23.81				
R	40		POINT AFT OF SPRING POCKET	BEF AFT	72.11	19.63	23.89				
L	50		FLOOR RUN OUTBOARD OF NAIL/FRONT	BEF AFT	87.06	-20.22	14.76				
R	50		FLOOR RUN OUTBOARD OF NAIL/FRONT	BEF AFT	86.90	19.93	14.77				
L	60		MID POINT OF #40 & #70	BEF AFT	83.04	-15.63	13.40				

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UNIT NO	SIDE	PNT NO	DESCRIPTION	** POINT COORDINATES **			INCHES CHANGED				
				LONG X	LAT Y	VERT Z	X	Y	Z	D	
R	60		MID POINT OF #40 & #70	REF AFT	82.98	16.07	13.28				
L	70		AFT END OF RAIL	REF AFT	109.55	-16.47	13.62				
R	70		AFT END OF RAIL	REF AFT	109.65	16.07	13.65				
L	80		FLOOR PAN OUTBOARD OF AFT END OF RAIL	REF AFT	109.86	-21.67	14.19				
R	80		FLOOR PAN OUTBOARD OF AFT END OF RAIL	REF AFT	109.83	21.38	14.25				
510			STEERING COL. COLLAPSE								
	01		INBOARD SHEAR MODULE (SCALAR DISTANCE)	REF AFT	0.00						
	02		OUTBOARD SHEAR MODULE (SCALAR DISTANCE)	REF AFT	0.00						
	09		SCALAR DISTANCE BETWEEN POINTS #59 & #60 (U-124)	REF AFT	0.37						
	11		SCALAR DISTANCE BETWEEN POINTS #4 & #60 (U-124)	REF AFT	6.65						
646			FOOT WELL POINTS								
	01		OUTER EDGE OF FOOTWELL BRAKE PAD. PAD C/L HT	REF AFT	76.51	-3.92	22.95				
	02		2ND BRND IN FOOTWELL BRAKE PAD. PAD C/L HT	REF AFT	76.44	-13.69	22.94				
	04		4TH POINT OF FOOTWELL BRAKE PAD. PAD C/L HT	REF AFT	77.75	-18.58	22.92				

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## DIMENSIONAL ANALYSIS REPORT

CRASH #: 10921

UNIT NO	SIDE	PNT NO	DESCRIPTION	** POINT COORDINATES **			INCHES CHANGED				
				LONG X	LAT Y	VERT Z	X	Y	Z	D	
		05	5TH POINT OF FOOTWELL BRAKE PED. PAD C/L HT	BHP AFT	81.25	-23.47	22.89				
		06	6TH POINT OF FOOTWELL BRAKE PED. PAD C/L HT	BHP AFT	83.18	-28.36	22.87				
		08	C/L OF BRAKE PEDAL PAD SURFACE	BHP AFT	84.99	-12.81	22.42				
		10	FORWARD POINT OF DRIVER SEAT	BHP AFT	106.72	-12.80	15.36				
		11	FORWARD EDGE OF SEAT KICKER BRAKE C/L	BHP AFT	181.39	-14.24	25.38				
			FOOTWELL REDUCTION = -129.53*								
650			BLANK UNIT POINTS								
		01	1	SEE COMMENTS PAGE	BHP AFT	95.73	-26.73	14.50			
		02	2	SEE COMMENTS PAGE	BHP AFT	143.20	-26.62	14.00			
		03	3	SEE COMMENTS PAGE	BHP AFT	96.77	26.50	14.46			
		04	4	SEE COMMENTS PAGE	BHP AFT	142.49	26.39	14.02			
		05	5	SEE COMMENTS PAGE	BHP AFT	210.00	19.85	21.74			
		06	6	SEE COMMENTS PAGE	BHP AFT	209.46	19.62	21.69			
		07	7	SEE COMMENTS PAGE	BHP AFT	107.05	-27.77	14.38			
		08	8	SEE COMMENTS PAGE	BHP AFT	126.19	-28.02	14.01			

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DIMENSIONAL ANALYSIS REPORT

CRASH #: 10921

UNIT NO	SIDE	PNT NO	DESCRIPTION	** POINT COORDINATES **			INCHES CHANGED				
				LONG X	LAT Y	VERT Z	X	Y	Z	D	
		09	SEE COMMENTS PAGE	REF AFT	69.21	-6.83	13.74				
		10	SEE COMMENTS PAGE	REF AFT	56.62	2.90	38.86				
		11	SEE COMMENTS PAGE	REF AFT	106.05	27.52	14.25				
		12	SEE COMMENTS PAGE	REF AFT	126.84	27.74	14.01				

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DIMENSIONAL ANALYSIS REPORT

CRASH #: 10921

\*\* SECTIONS \*\*

UNIT NO	SCIN NO	SIDE	SEC NO	NAME AND CRASH STATUS	X	Y	Z
640	81			DRIVER C/L SECTION LONG			
			1	BEFORE	106.36	-14.71	14.69
			2	BEFORE	92.37	-14.65	14.69
			3	BEFORE	84.58	-14.62	14.95
			4	BEFORE	78.79	-14.61	19.37
			5	BEFORE	76.66	-14.60	21.46
			6	BEFORE	76.40	-14.59	24.39
			7	BEFORE	75.82	-14.58	26.49
			8	BEFORE	75.77	-14.59	27.58
			9	BEFORE	75.21	-14.58	28.08
			10	BEFORE	75.07	-14.58	29.09
			11	BEFORE	75.09	-14.58	32.06
			12	BEFORE	75.13	-14.58	33.29
			13	BEFORE	76.80	-14.58	34.19
			14	BEFORE	75.88	-14.58	36.40
			15	BEFORE	81.79	-14.61	38.33
			16	BEFORE	80.61	-14.60	40.29
			17	BEFORE	79.07	-14.59	42.77
			18	BEFORE	75.38	-14.58	42.99

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VEHICLE C/L SECTION LOW

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\*\* SECTIONALS \*\*

INT NO	SECT NO	SIDE	SEQ NO	NAME AND CRASH STATUS	INCHES		
					X	Y	Z
			1	BEFORE	107.51	-0.15	18.59
			2	BEFORE	95.21	-0.10	18.90
			3	BEFORE	89.40	-0.08	19.54
			4	BEFORE	87.35	-0.07	19.86
			5	BEFORE	85.26	-0.06	20.03
			6	BEFORE	78.16	-0.04	20.47
			7	BEFORE	76.67	-0.03	21.33
			8	BEFORE	76.38	-0.03	24.81
			9	BEFORE	74.81	-0.02	25.58
			10	BEFORE	74.35	-0.02	31.64
			11	BEFORE	74.58	0.00	27.48
			12	BEFORE	79.96	-0.03	39.10
			13	BEFORE	72.08	-0.03	41.33
			14	BEFORE	76.96	-0.03	43.06
			15	BEFORE	73.99	-0.02	43.16

642 81

PASSENGER C/L SECT/LENG

			1	BEFORE	106.41	14.43	14.74
			2	BEFORE	96.57	14.46	14.47
			3	BEFORE	96.49	14.47	14.47
			4	BEFORE	85.28	14.50	14.83
			5	BEFORE	79.61	14.53	19.04

## \*\* SECTIONALS \*\*

INT NO	SCHE NO	SIDE	SNO NO	NAME AND CRASH STATUS	X	Y	INCHES Z
			6	BEFORE	76.62	14.53	21.34
			7	BEFORE	76.44	14.54	23.85
			8	BEFORE	74.74	14.54	25.10
			9	BEFORE	74.50	14.55	29.73
			10	BEFORE	74.53	14.55	34.50
			11	BEFORE	74.63	14.55	38.19
			12	BEFORE	80.98	14.53	39.38
			13	BEFORE	79.18	14.53	42.61
			14	BEFORE	75.38	14.55	42.87
647	51			BRAKE SUPPORT BRACKET			
			1	BEFORE	106.23	-22.58	14.58
			2	BEFORE	104.50	-22.57	14.56
			3	BEFORE	103.56	-22.56	15.15
			4	BEFORE	101.44	-22.57	15.07
			5	BEFORE	100.92	-22.57	14.71
			6	BEFORE	92.31	-22.92	14.75
			7	BEFORE	87.54	-22.50	14.69
			8	BEFORE	86.73	-22.50	15.11
			9	BEFORE	85.50	-22.50	15.27
			10	BEFORE	83.38	-22.48	19.00
			11	BEFORE	81.70	-22.48	21.89

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\*\* SECTIONS \*\*

UNIT NO	SCIN NO	SIDE	SEQ NO	NAME AND CRASH STATUS	X	Y	INCHES Z
			12	BEFORE	80.72	-22.49	22.63
			13	BEFORE	79.03	-22.48	27.15
			14	BEFORE	77.00	-22.46	29.90
			15	BEFORE	77.60	-22.48	36.03
			16	BEFORE	83.79	-22.48	37.78
			17	BEFORE	83.14	-22.48	39.87
			18	BEFORE	82.13	-22.48	42.28
			19	BEFORE	77.03	-22.47	42.55
647	82			BRAKE SUPPORT BRACKET			
			1	BEFORE	106.50	-7.42	15.26
			2	BEFORE	102.18	-7.40	15.33
			3	BEFORE	100.53	-7.40	14.84
			4	BEFORE	95.99	-7.38	14.70
			5	BEFORE	89.58	-7.35	14.69
			6	BEFORE	84.86	-7.34	14.73
			7	BEFORE	79.09	-7.31	19.06
			8	BEFORE	76.66	-7.30	21.21
			9	BEFORE	76.43	-7.30	23.99
			10	BEFORE	75.45	-7.30	29.95
			11	BEFORE	74.88	-7.29	33.31
			12	BEFORE	74.06	-7.29	34.31

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CRASH #: 10921

\*\* SECTIONS \*\*

UNIT NO	SECTN NO	SIDE	SEQ NO	NAME AND CRASH STATUS	X	Y	INCHES Z
			13	BEFORE	74.10	-7.30	37.00
			14	BEFORE	80.60	-7.31	38.50
			15	BEFORE	79.80	-7.32	38.72
			16	BEFORE	78.82	-7.31	40.46
			17	BEFORE	77.47	-7.31	42.97
			18	BEFORE	76.23	-7.29	42.84
			19	BEFORE	74.45	-7.29	42.88

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BRAKE SUPPORT BRACKET

			1	BEFORE	106.63	10.40	15.28
			2	BEFORE	102.23	10.42	15.38
			3	BEFORE	100.69	10.43	14.31
			4	BEFORE	91.53	10.46	14.56
			5	BEFORE	85.55	10.49	14.70
			6	BEFORE	80.17	10.51	18.33
			7	BEFORE	76.64	10.52	21.21
			8	BEFORE	76.40	10.52	22.48
			9	BEFORE	74.79	10.53	23.26
			10	BEFORE	74.87	10.53	28.56
			11	BEFORE	74.60	10.53	31.58
			12	BEFORE	74.59	10.53	34.53
			13	BEFORE	74.61	10.53	38.24

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DIMENSIONAL ANALYSIS REPORT

CRASH #: 10921

\*\* SECTIONALS \*\*

INT NO	SCIN NO	SIDE	SEQ NO	NAME AND CRASH STATUS	X	Y	INCHES Z
			14	BEFORE	80.00	10.52	39.50
			15	BEFORE	79.08	10.52	41.10
			16	BEFORE	78.21	10.52	42.76
			17	BEFORE	76.31	10.53	42.90
			18	BEFORE	74.73	10.53	42.99
647	24			BRAKE SUPPORT BRACKET			
			1	BEFORE	106.46	18.45	14.63
			2	BEFORE	101.07	18.47	14.45
			3	BEFORE	100.26	18.46	14.70
			4	BEFORE	98.35	18.40	14.65
			5	BEFORE	91.80	18.49	14.70
			6	BEFORE	85.19	18.52	14.78
			7	BEFORE	80.03	18.54	18.64
			8	BEFORE	79.19	18.54	19.49
			9	BEFORE	78.39	18.54	21.87
			10	BEFORE	77.34	18.55	25.32
			11	BEFORE	75.87	18.55	26.68
			12	BEFORE	74.74	18.56	28.22
			13	BEFORE	74.61	18.58	24.15
			14	BEFORE	74.63	18.56	37.65
			15	BEFORE	82.24	18.53	38.91

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DIMENSIONAL ANALYSIS REPORT

CRASH #: 10921

\*\* SECTIONALS \*\*

UNIT NO	SECTN NO	SIDE	SEQ NO	NAME AND CRASH STATUS	DIMENSIONS		
					X	Y	Z
			16	BEFORE	81.53	18.54	40.67
			17	BEFORE	80.23	18.54	42.60
			18	BEFORE	78.56	18.55	42.82
			19	BEFORE	76.21	18.56	42.57
547	85			BRAKE SUPPORT BRACKET			
			1	BEFORE	83.20	-28.28	22.79
			2	BEFORE	82.49	-25.46	22.80
			3	BEFORE	80.69	-22.47	22.81
			4	BEFORE	80.08	-20.52	22.83
			5	BEFORE	76.85	-18.00	22.85
			6	BEFORE	76.50	-14.24	22.87
			7	BEFORE	76.48	-10.54	22.85
			8	BEFORE	76.40	-7.06	22.86
			9	BEFORE	76.43	-1.63	22.87
			10	BEFORE	76.59	2.75	22.86
			11	BEFORE	76.55	5.30	22.85
			12	BEFORE	76.26	7.29	22.86
			13	BEFORE	75.59	11.43	22.87
			14	BEFORE	76.45	12.43	22.87
			15	BEFORE	76.49	17.46	22.86
			16	BEFORE	79.56	19.74	22.83

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DIMENSIONAL ANALYSIS REPORT

CRASH #: 10921

\*\* SECTIONALS \*\*

UNIT NO	SCHE NO	SIDE	SEC NO	NAME AND CRASH STATUS	X	Y	INCHES Z
			17	BEFORE	80.46	22.19	22.81
			18	BEFORE	81.75	24.12	22.79
			19	BEFORE	82.61	25.85	22.79
			20	BEFORE	83.24	28.27	22.77

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CRASH #: 10921

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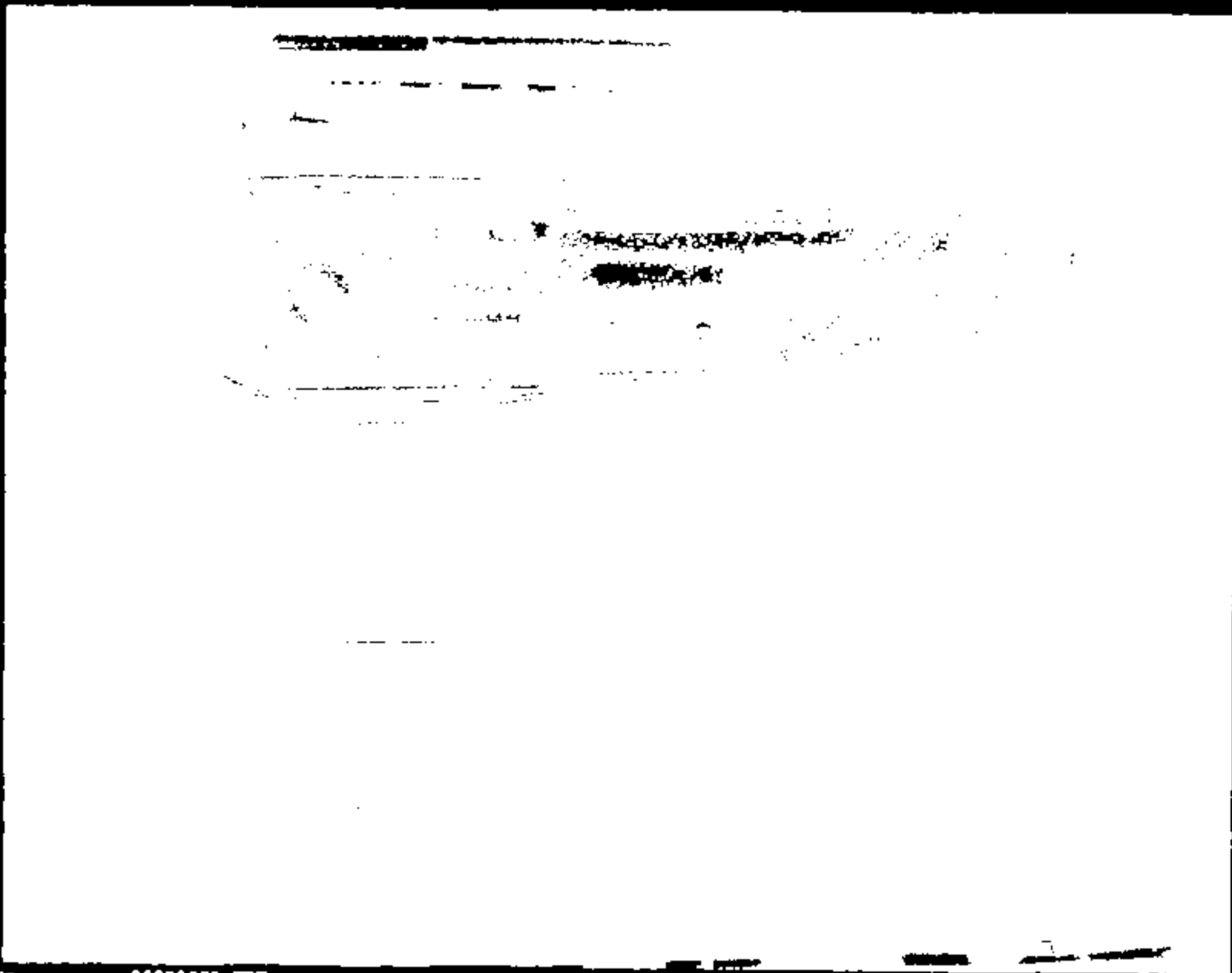
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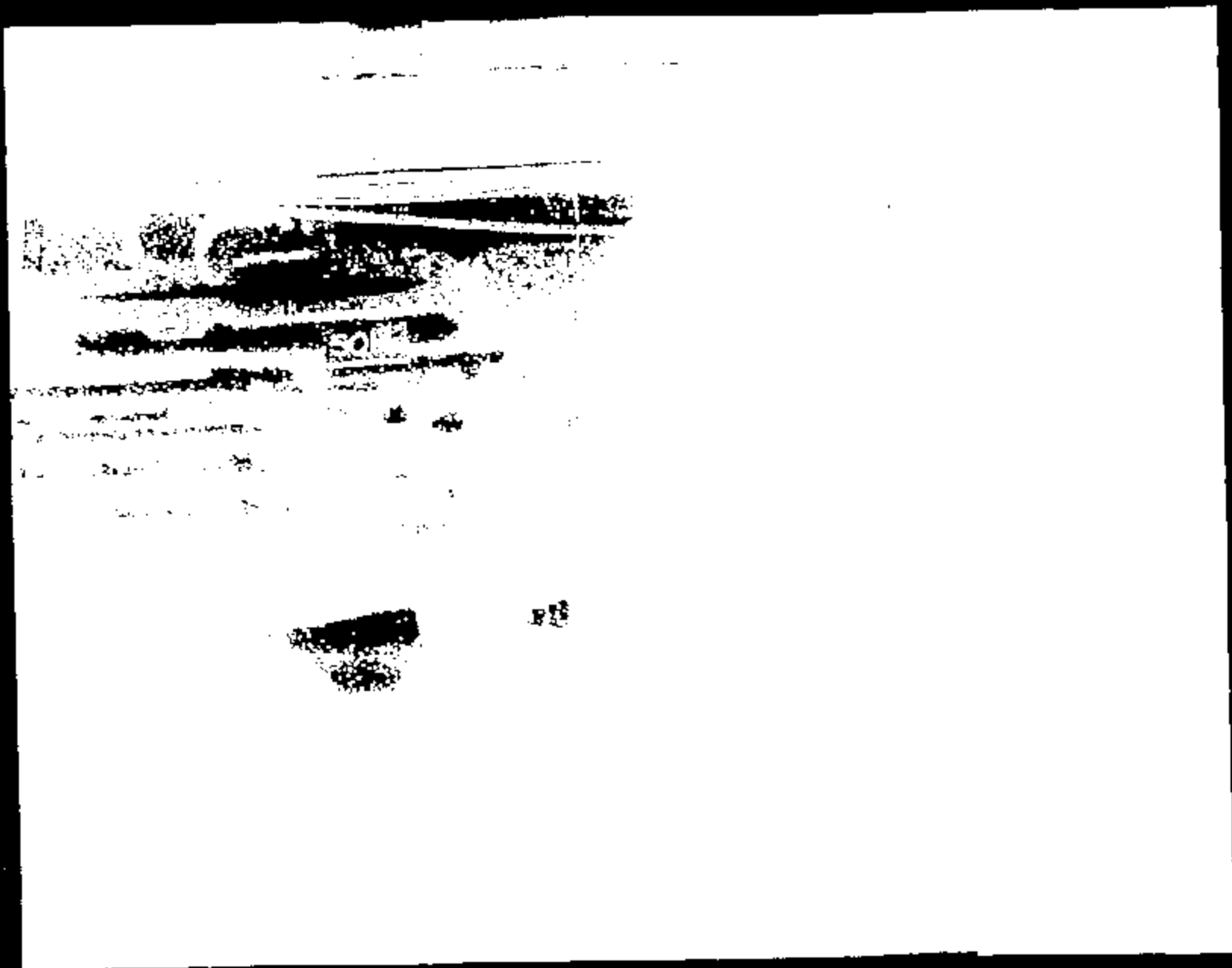




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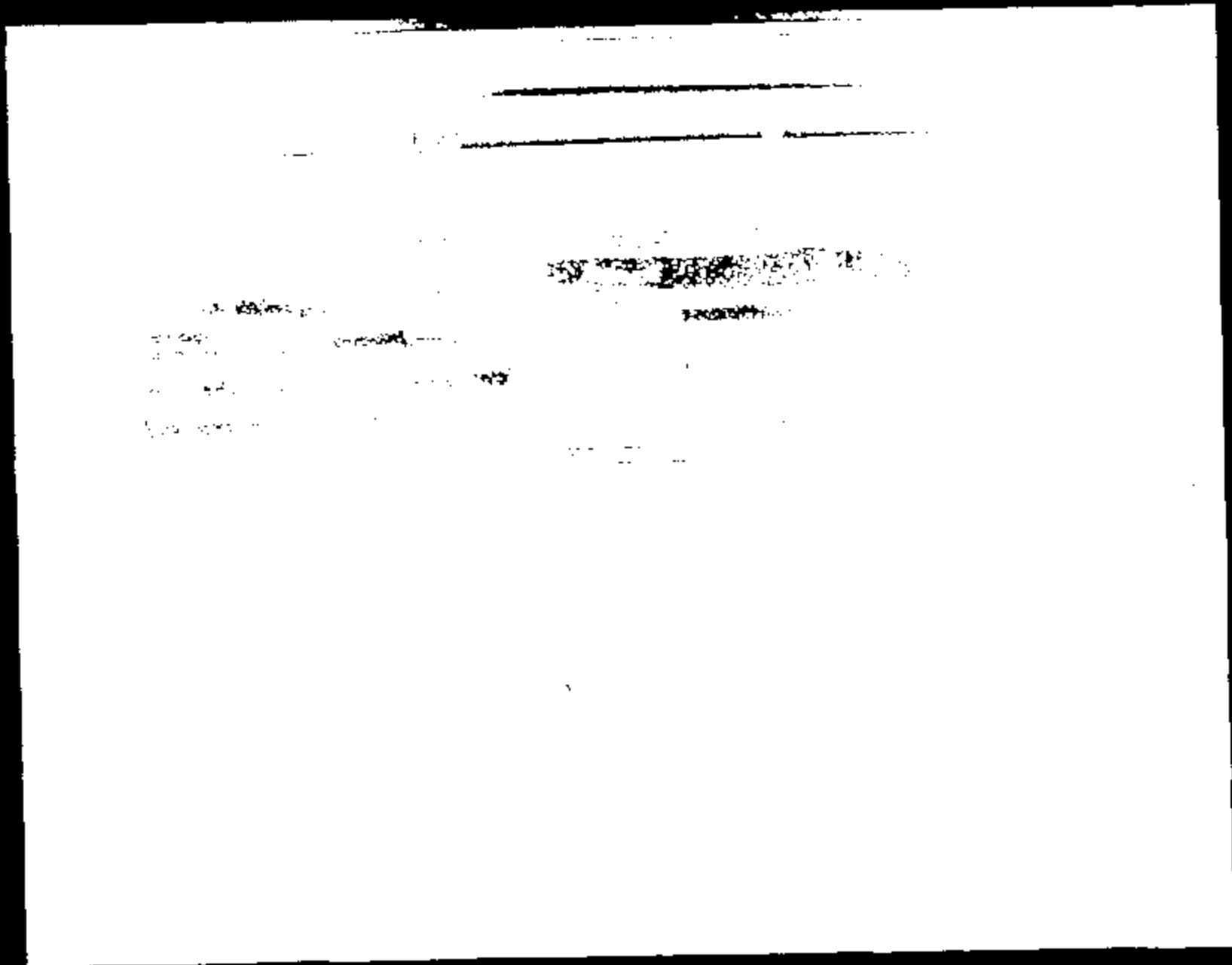
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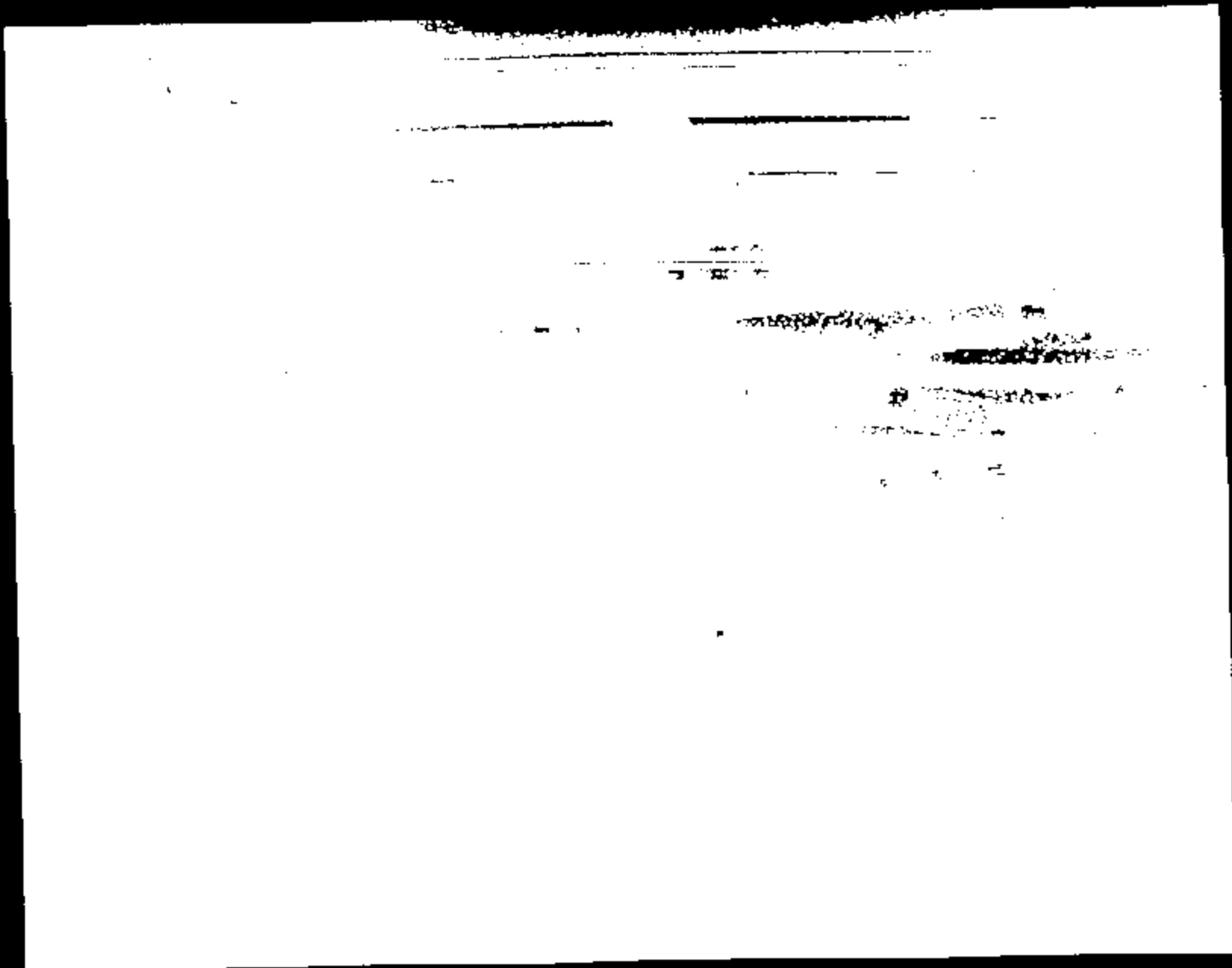
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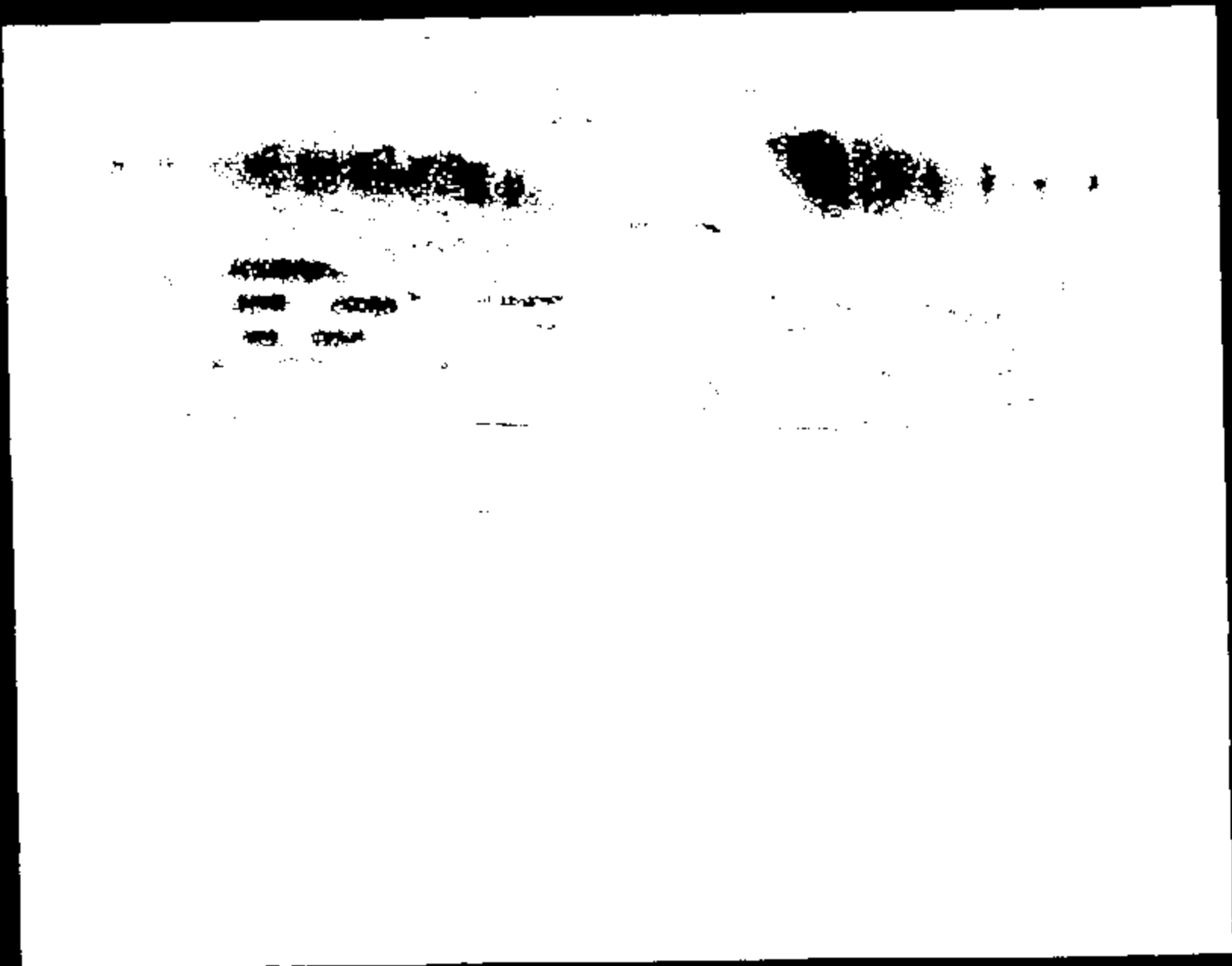
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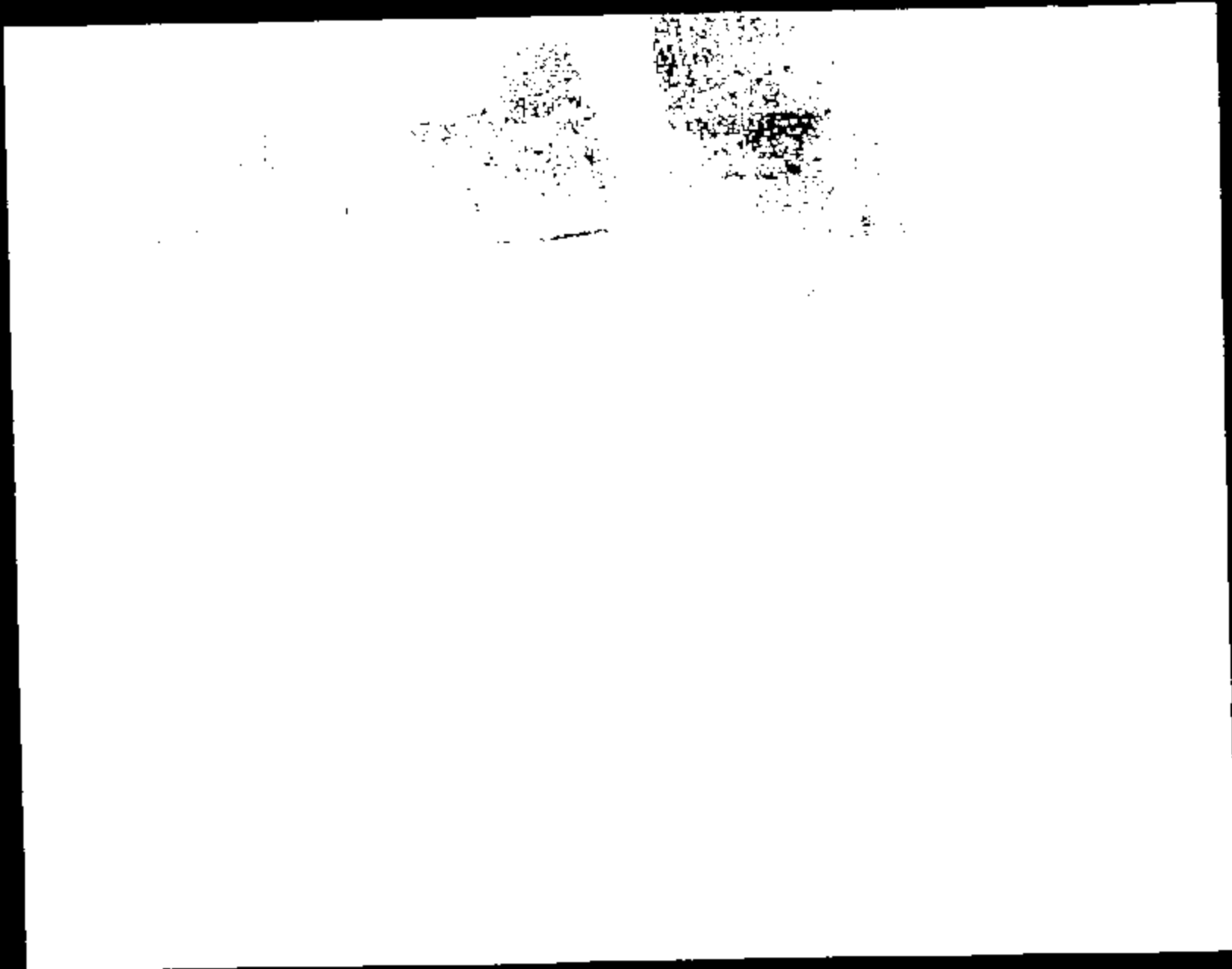
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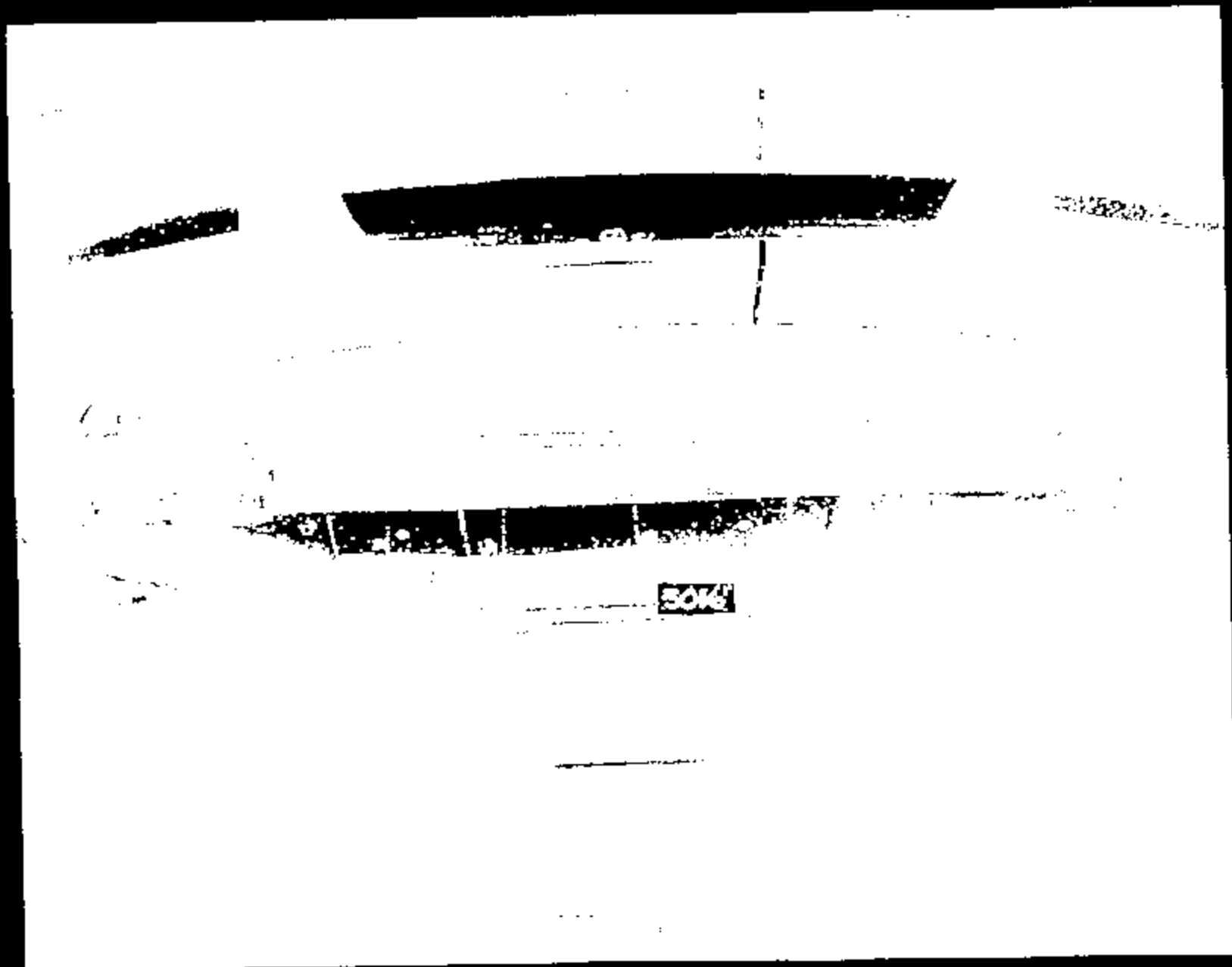
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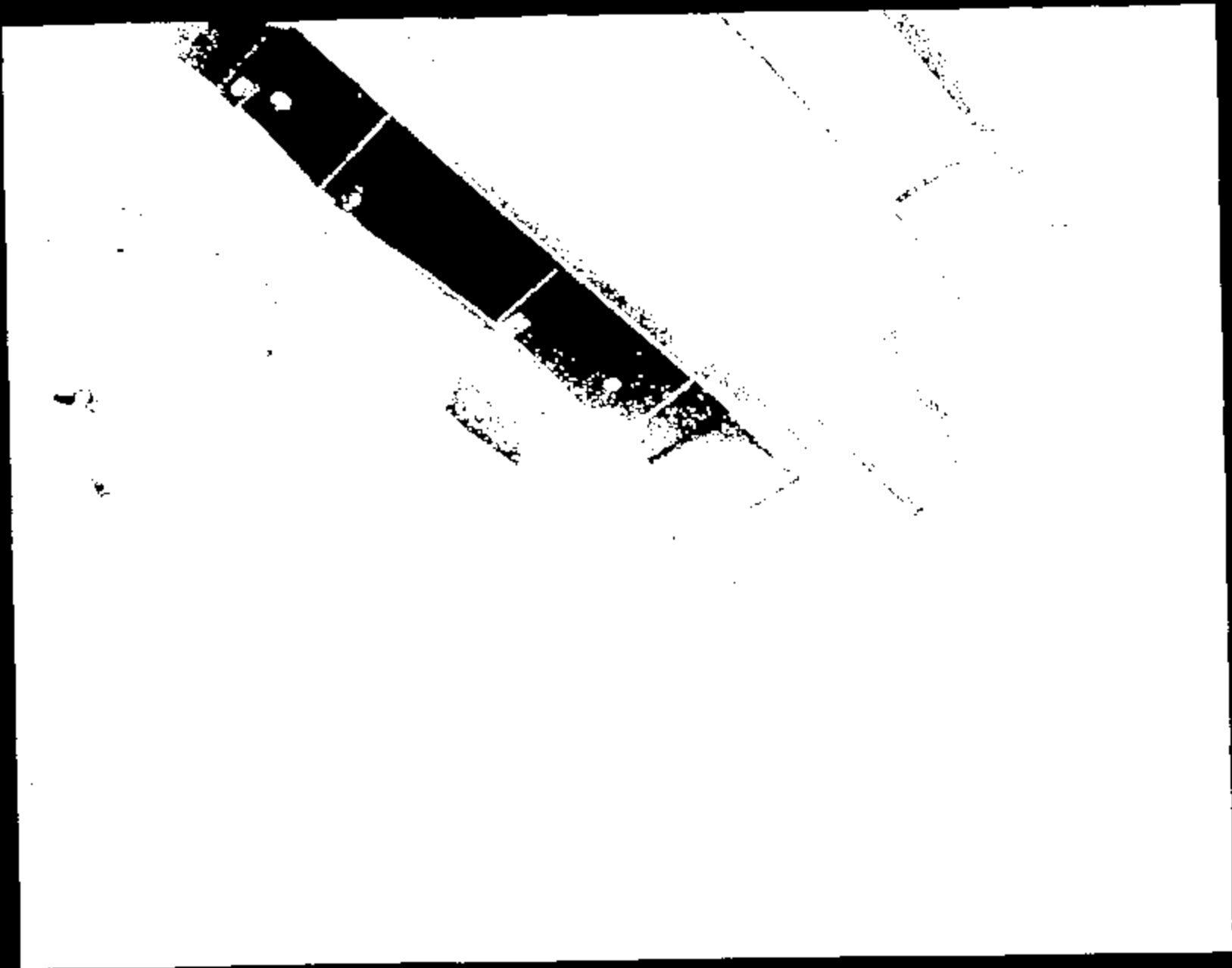
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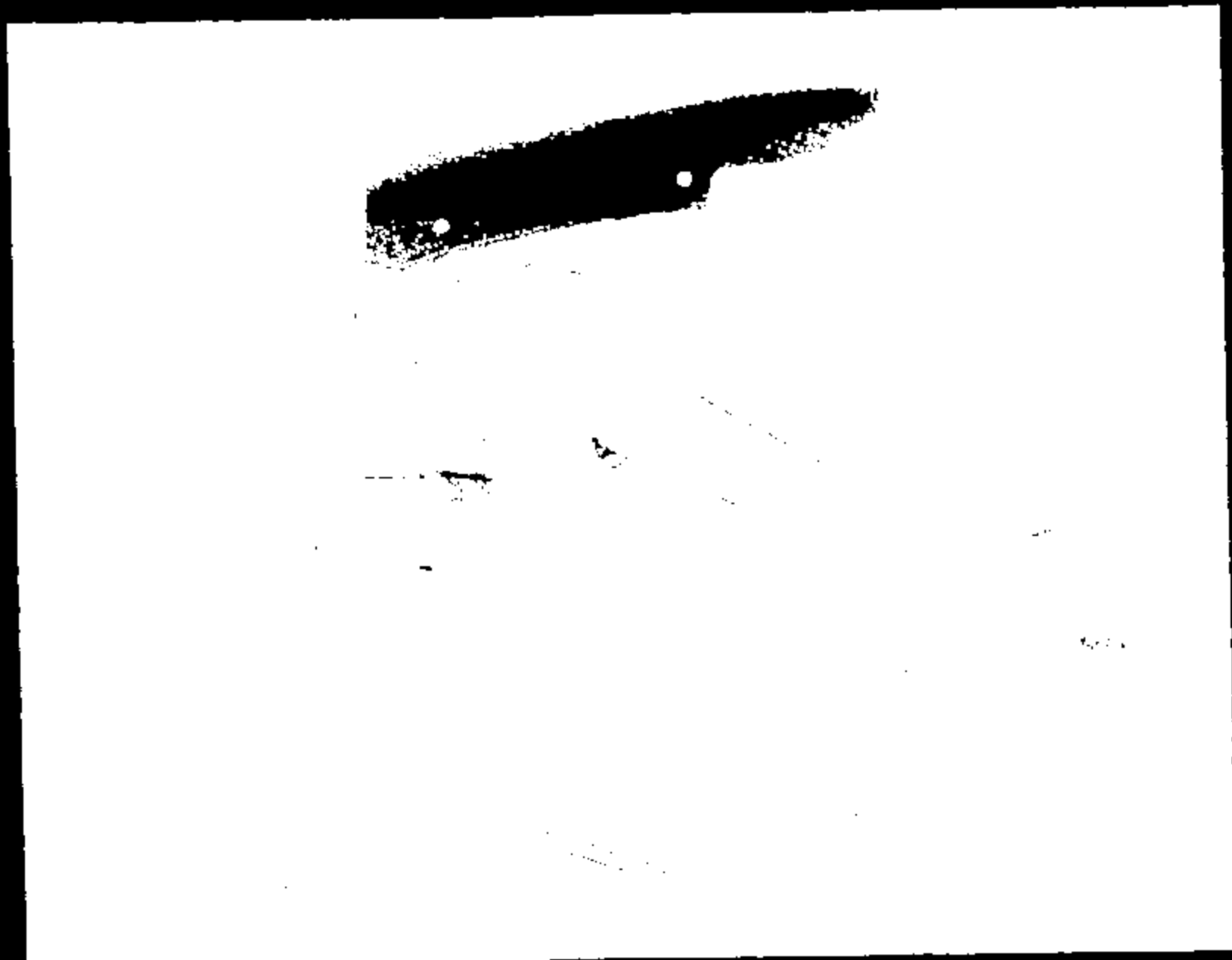


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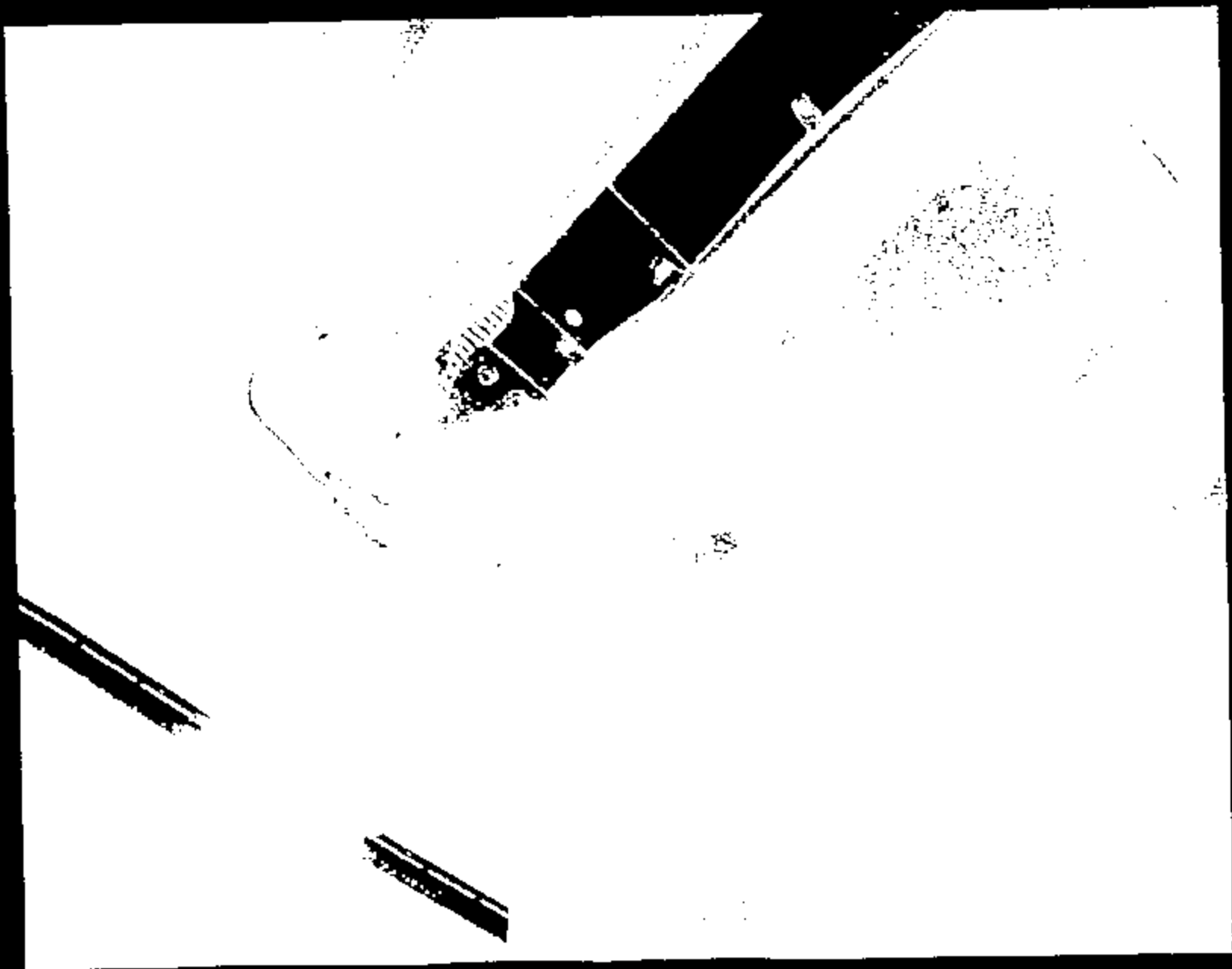




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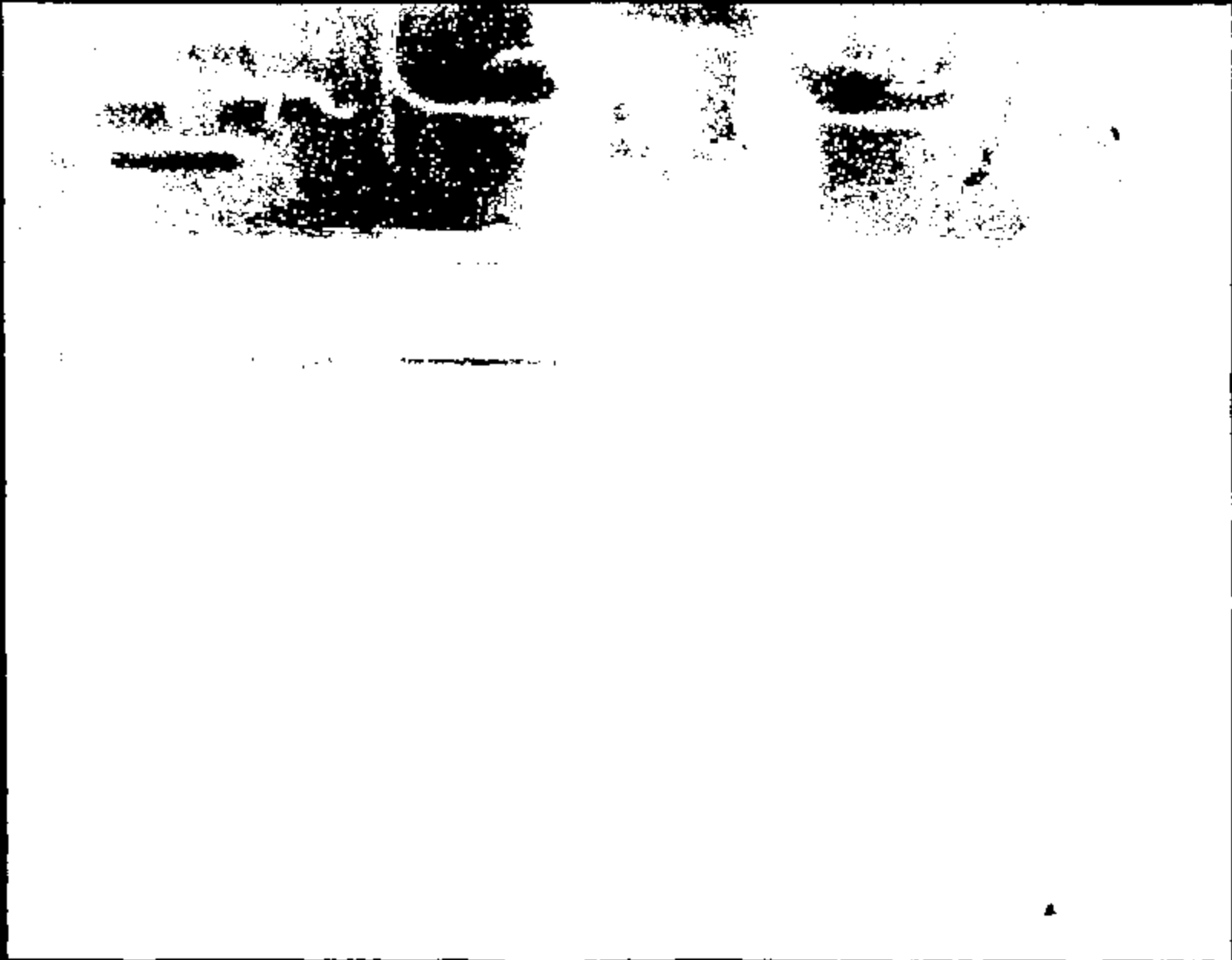
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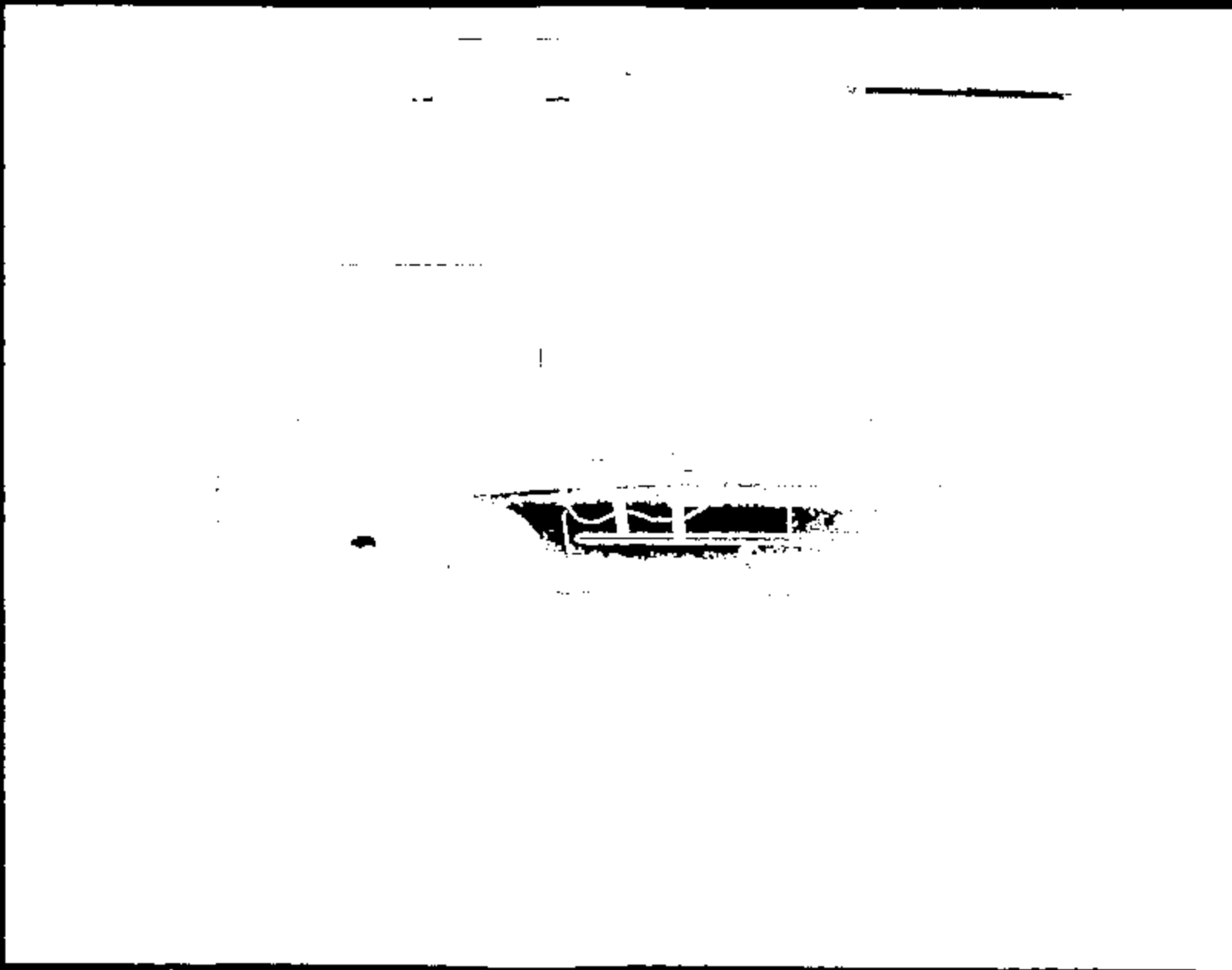
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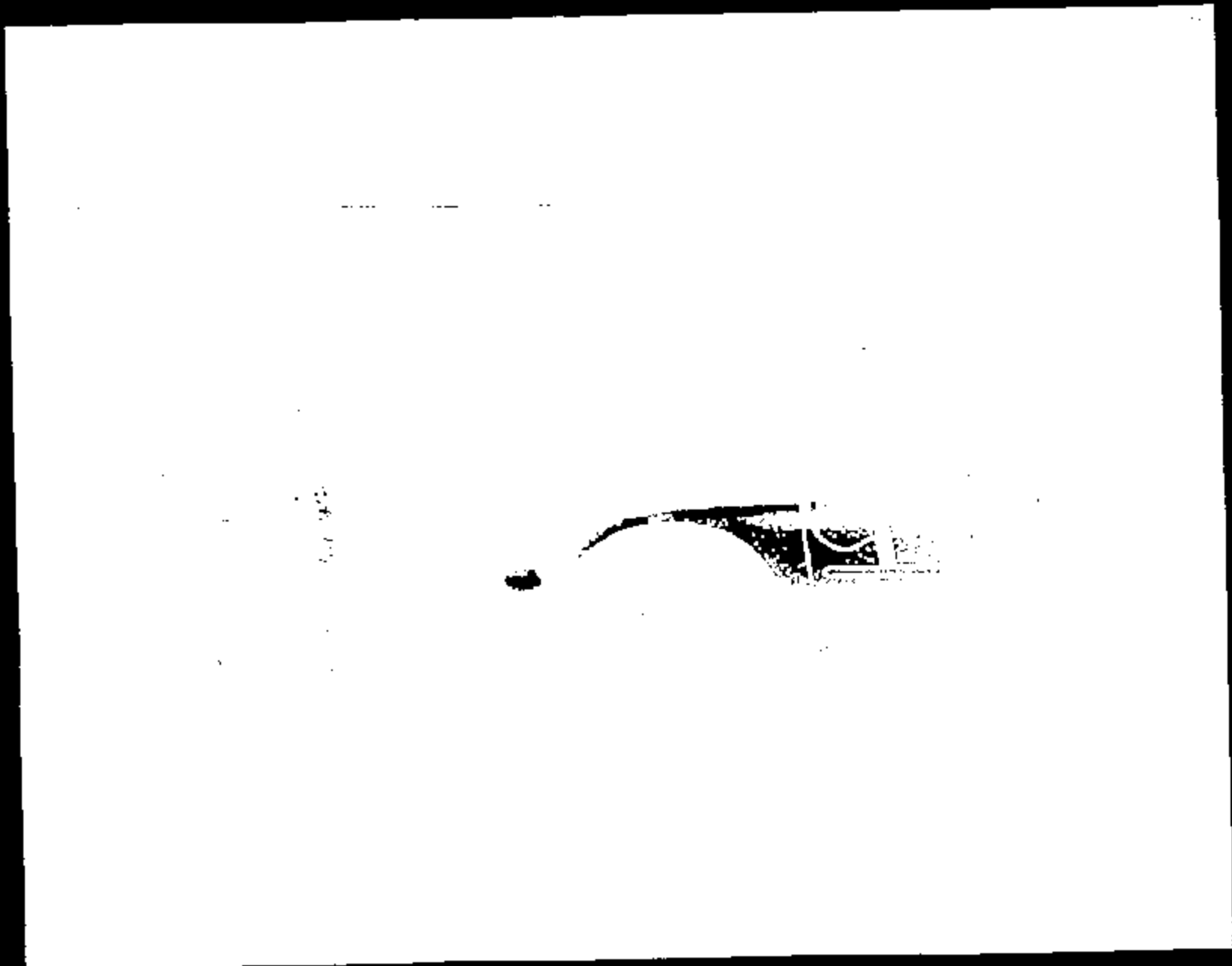
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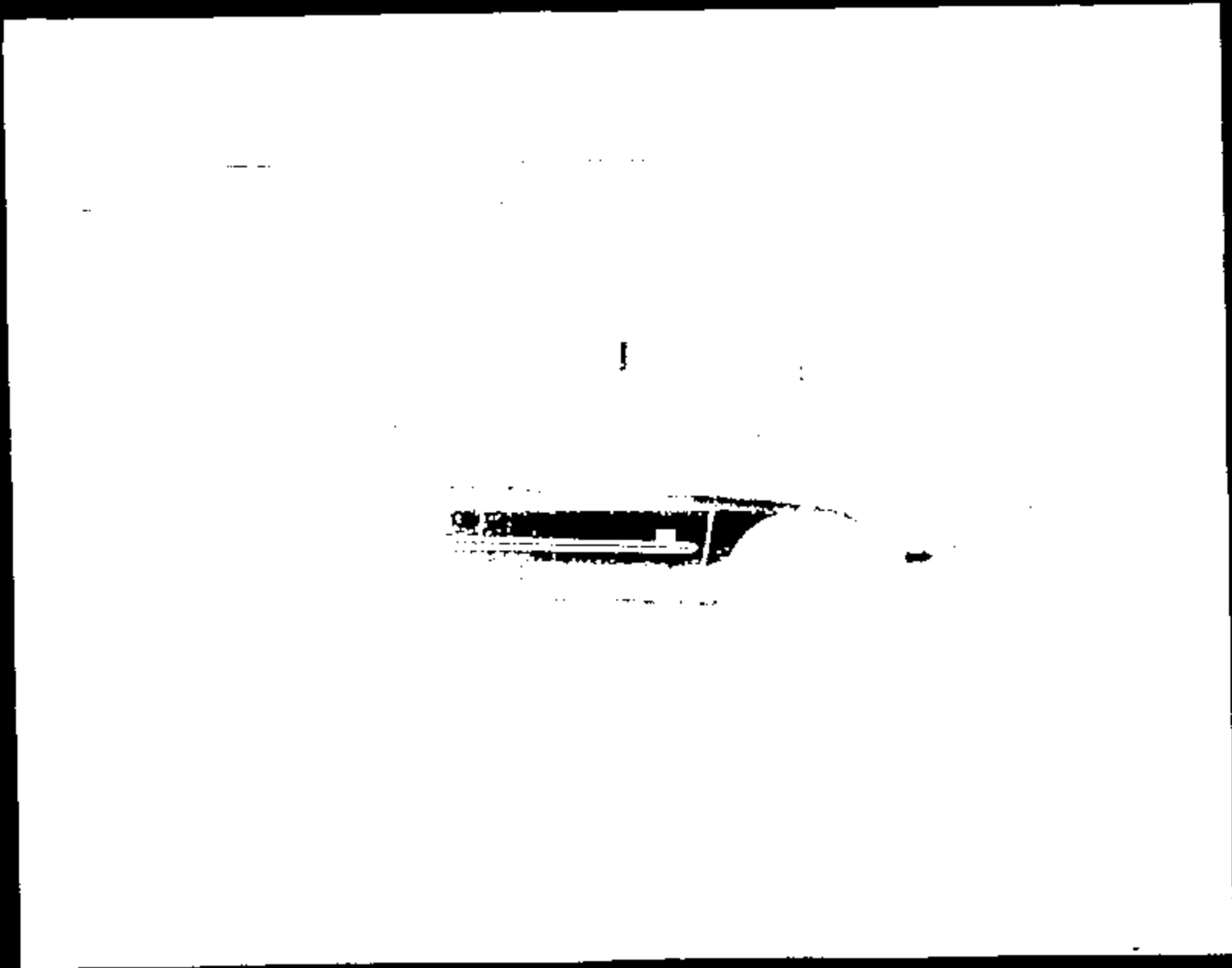
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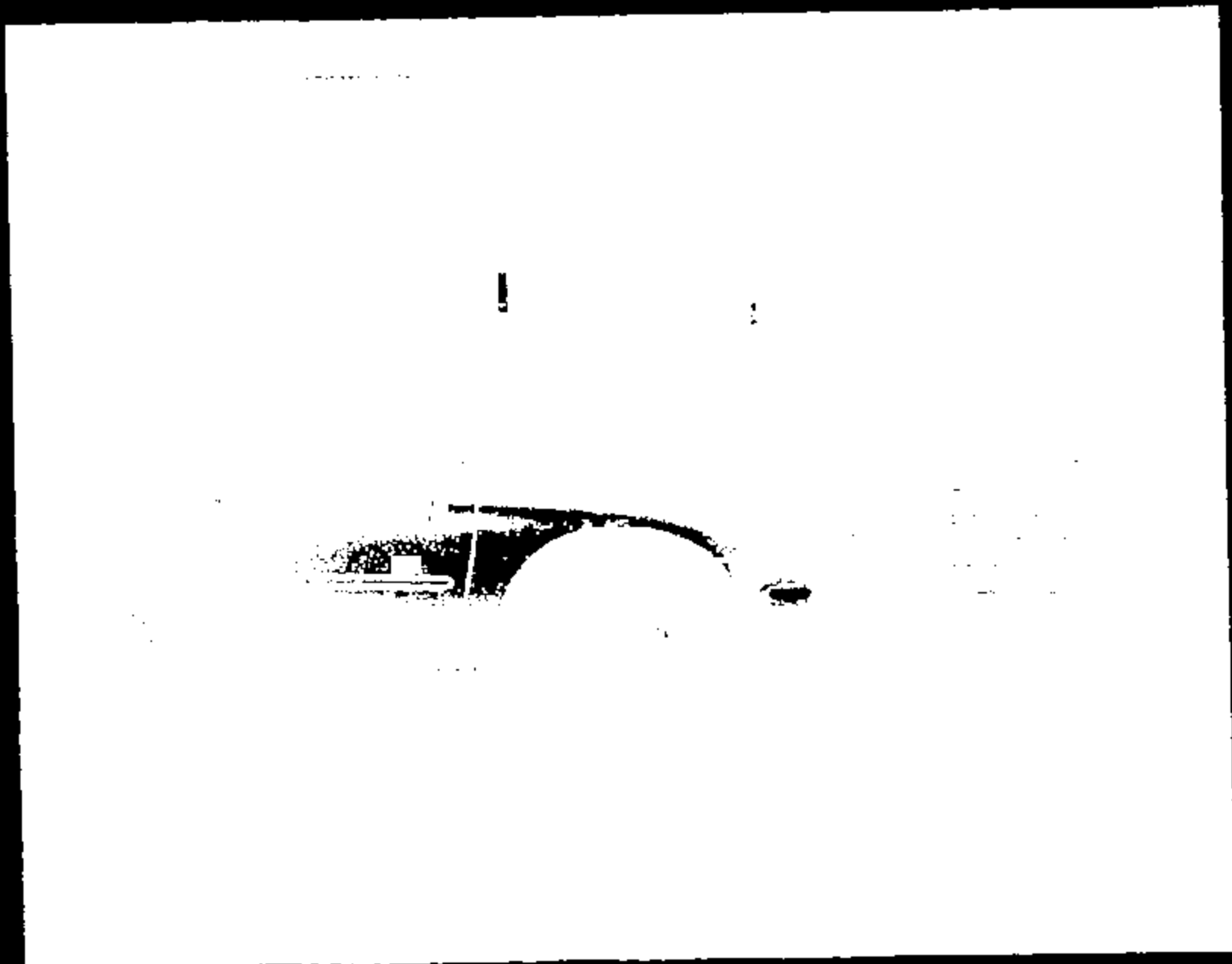


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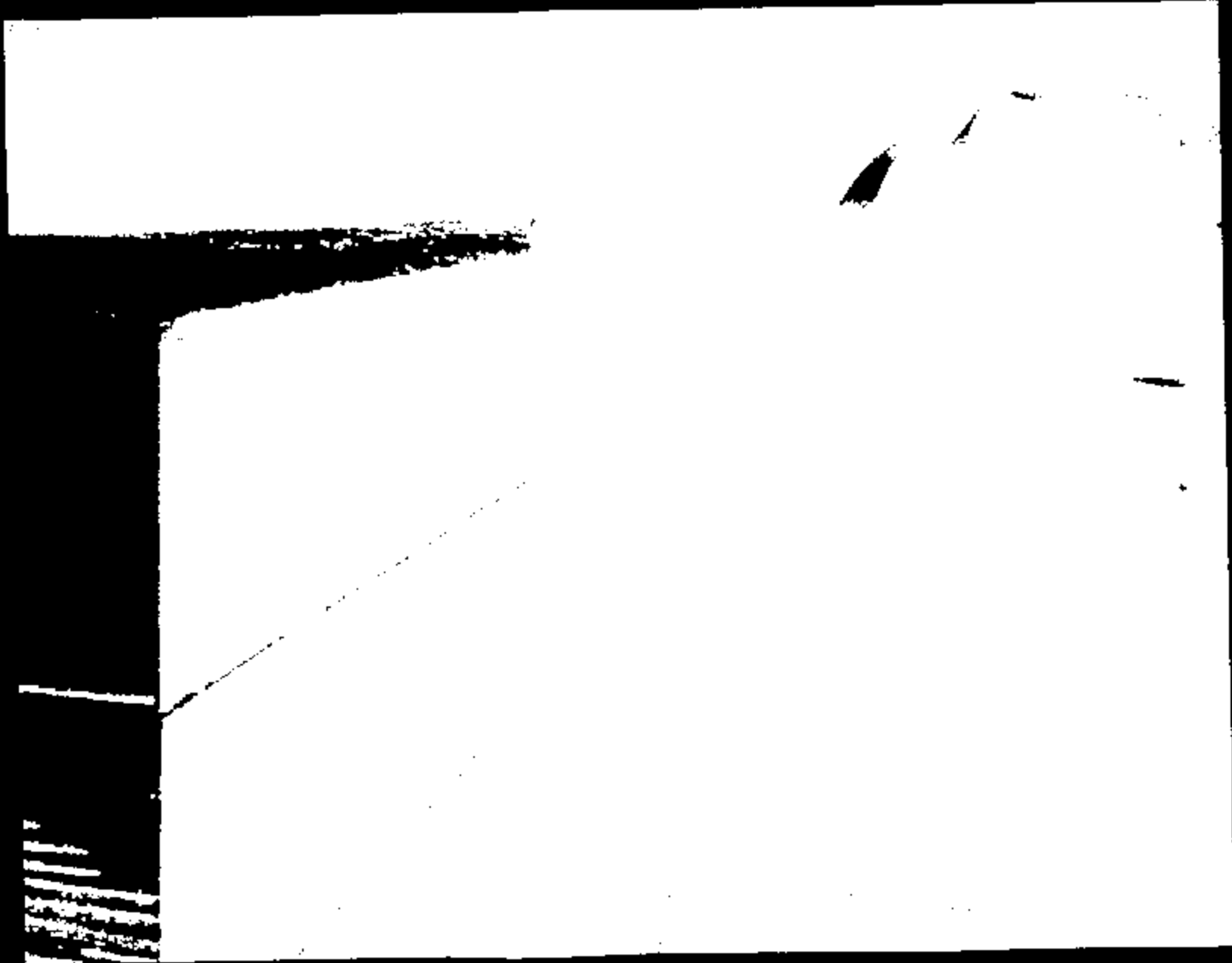




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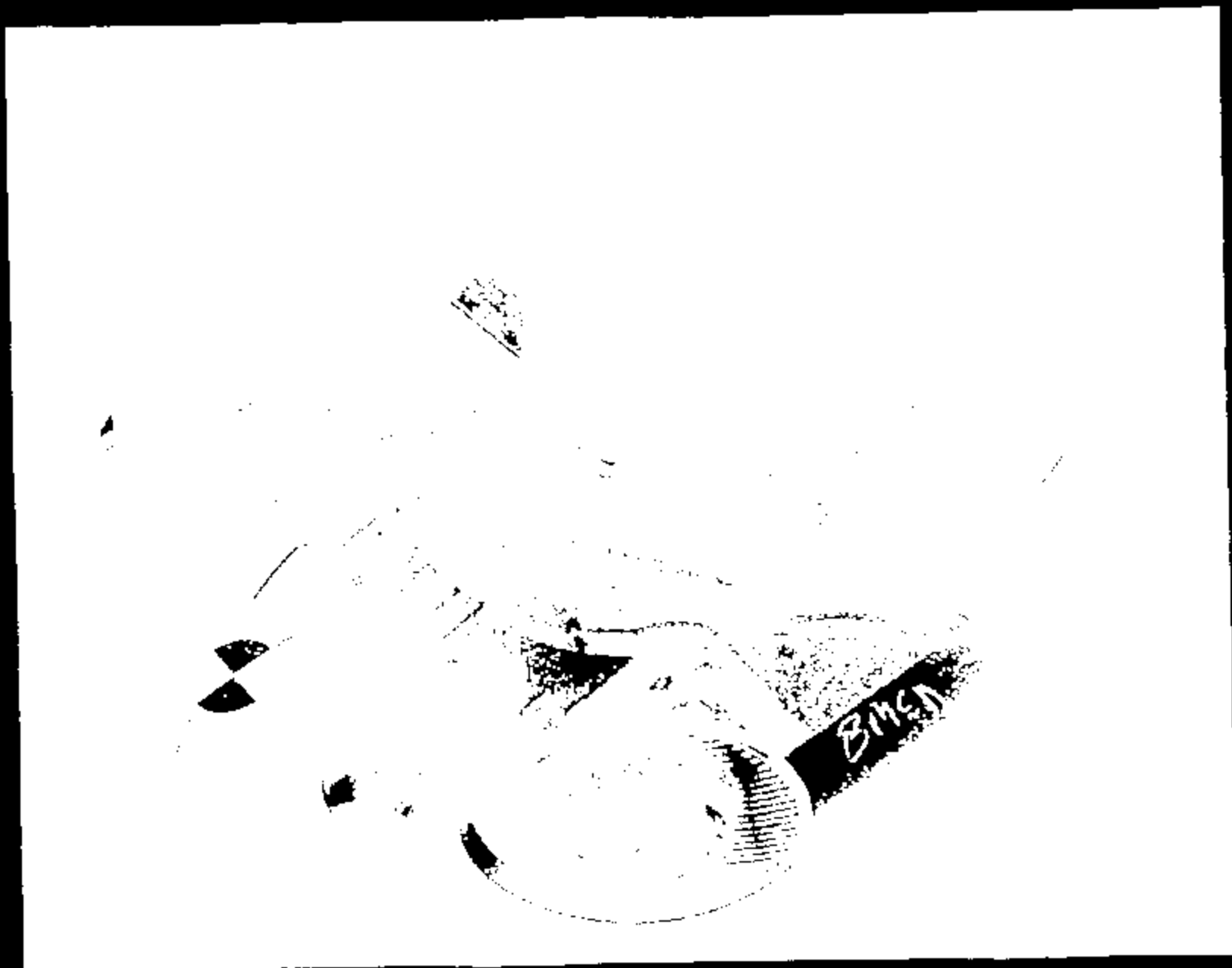
CRITS 0010921



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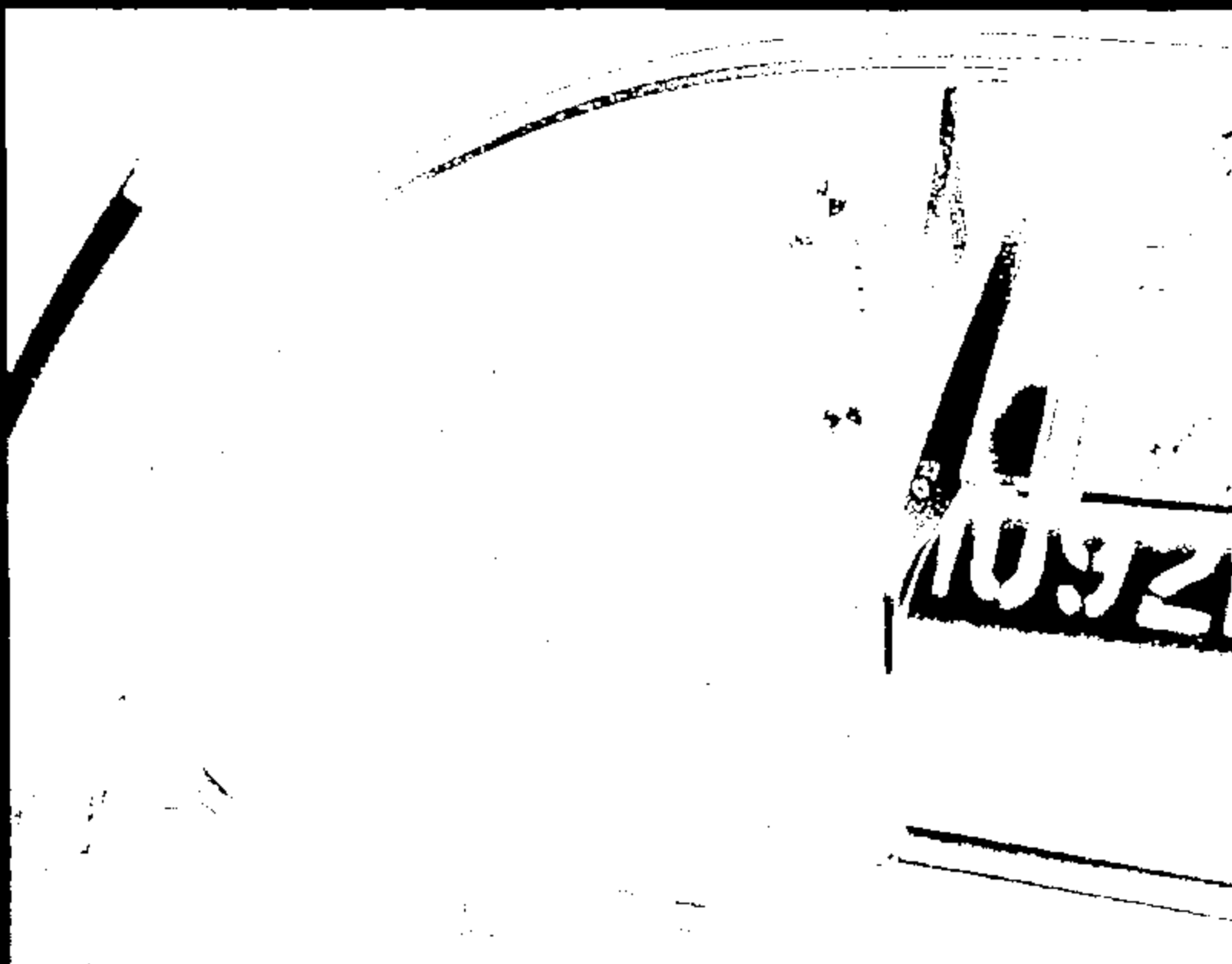
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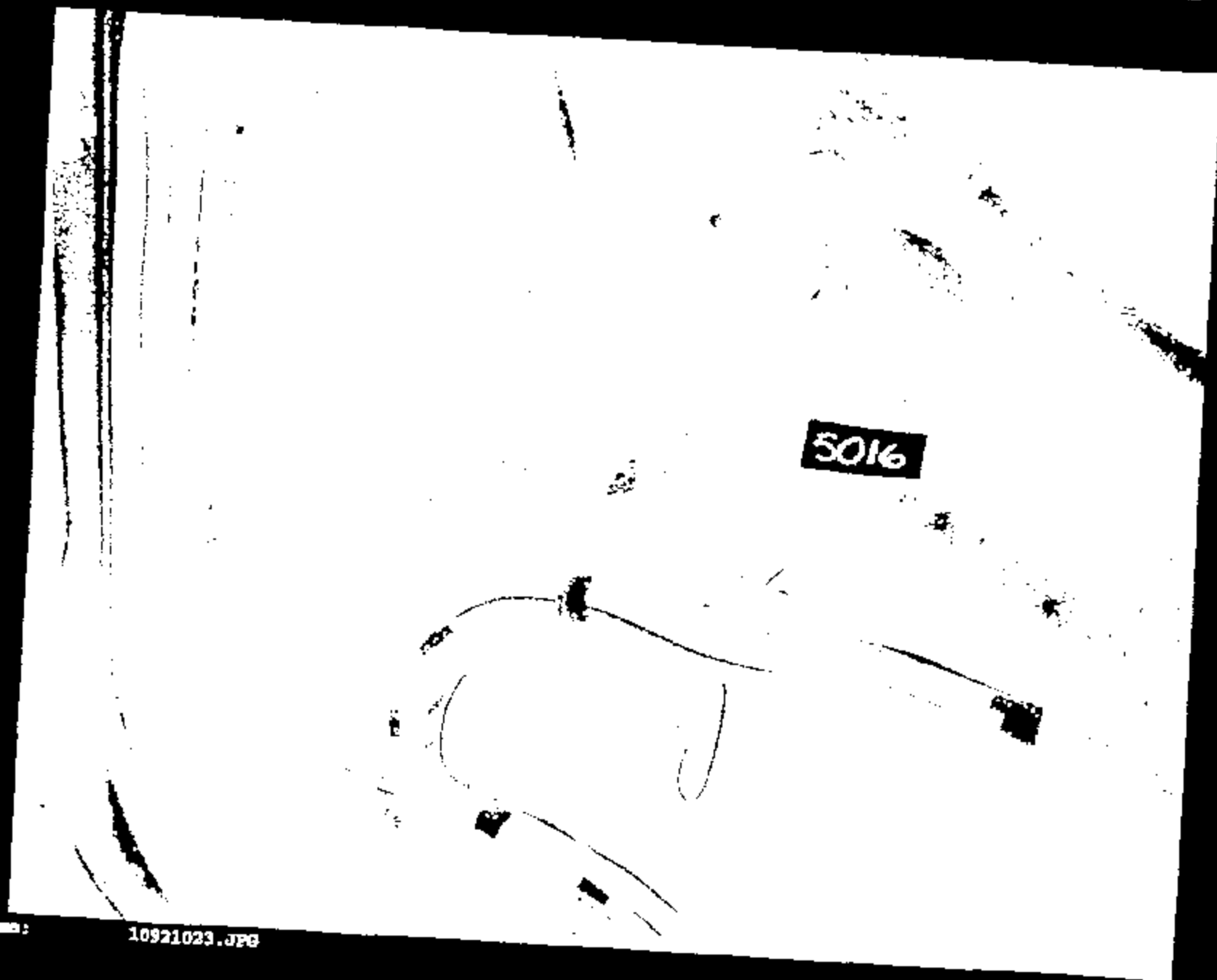
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CRTS 0010921



5016

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CRTS 0010921

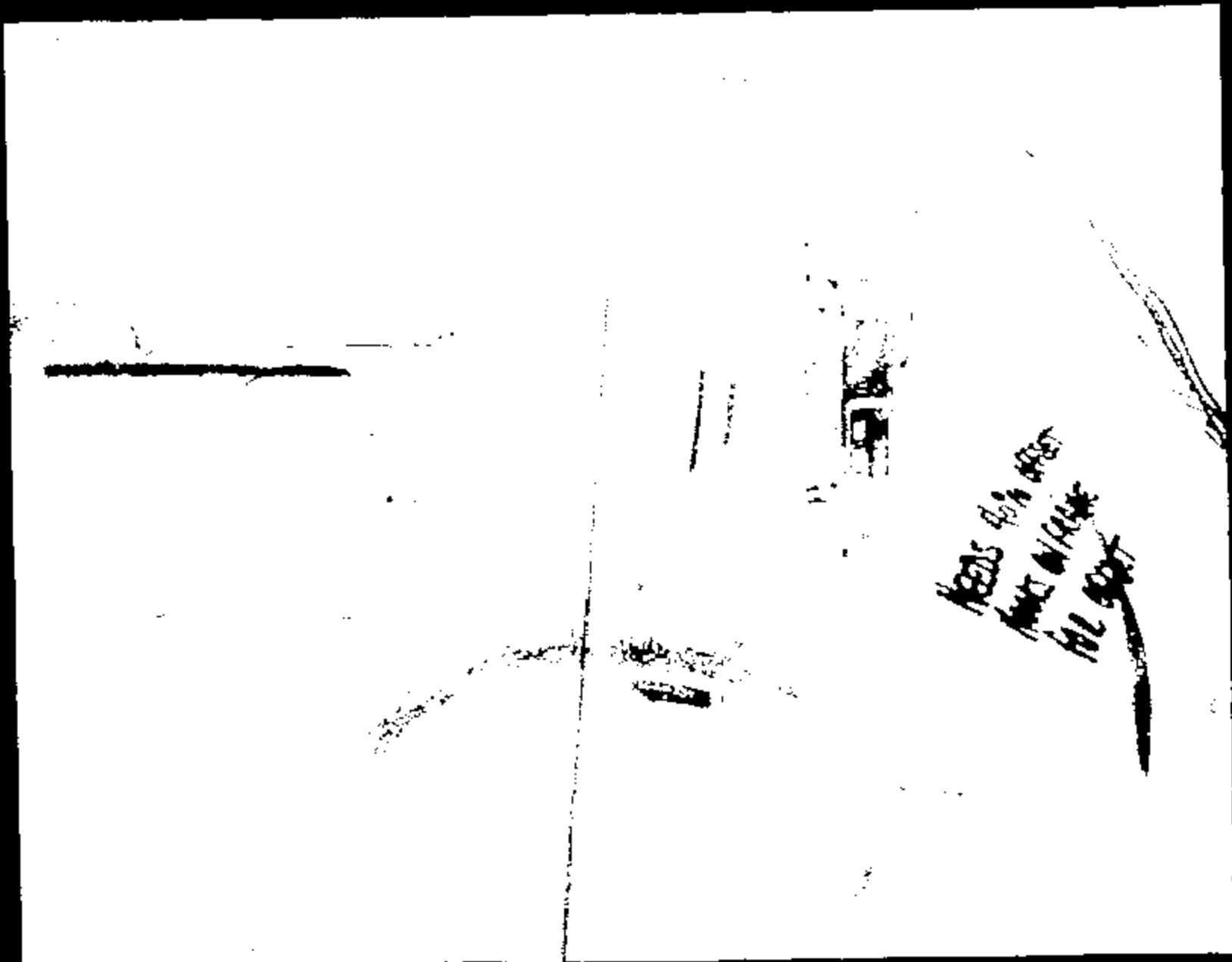


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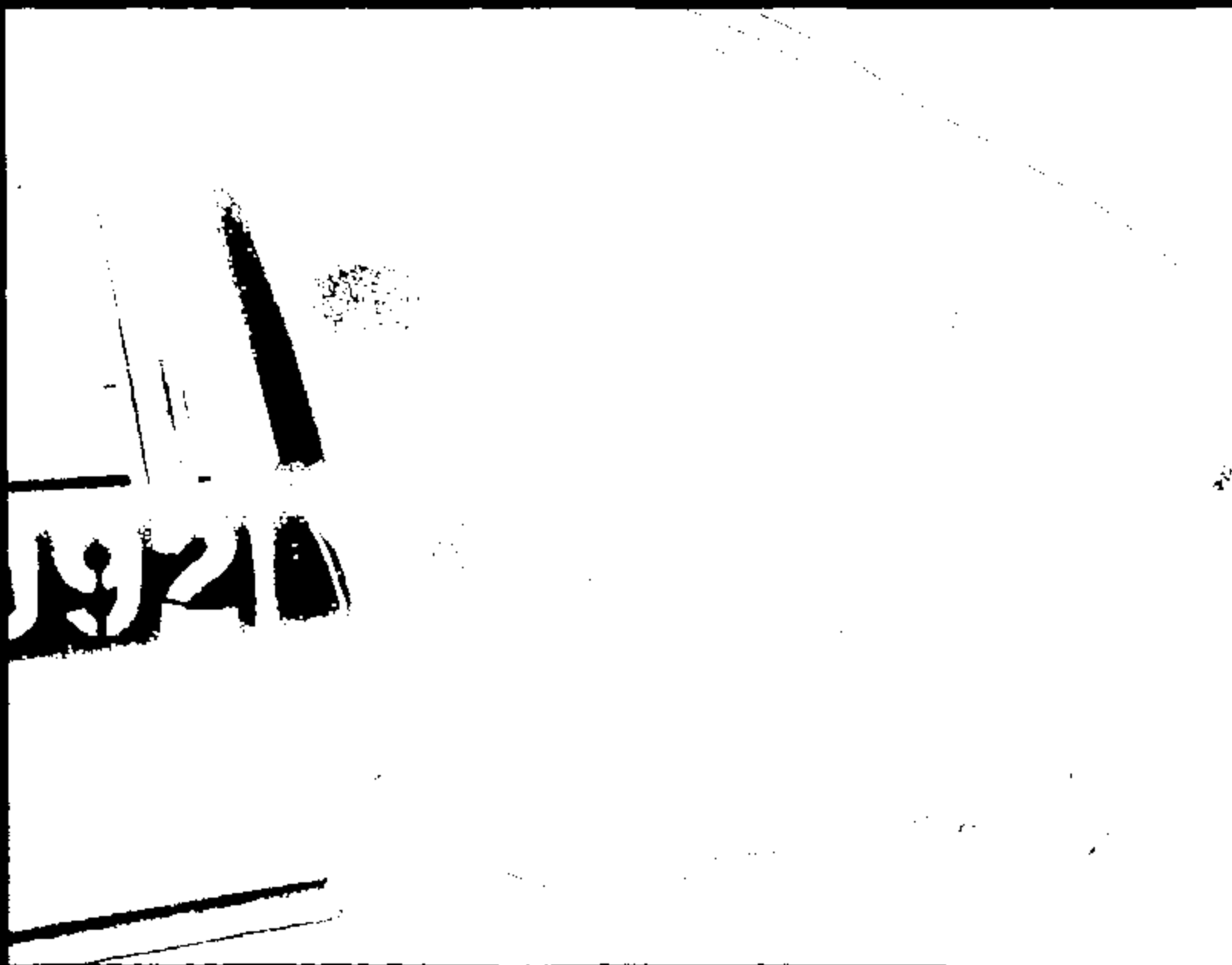




HEADS 4th 1982  
HEADS 5th 1983  
HEADS 6th 1984  
HEADS 7th 1985

CRTS 0010921

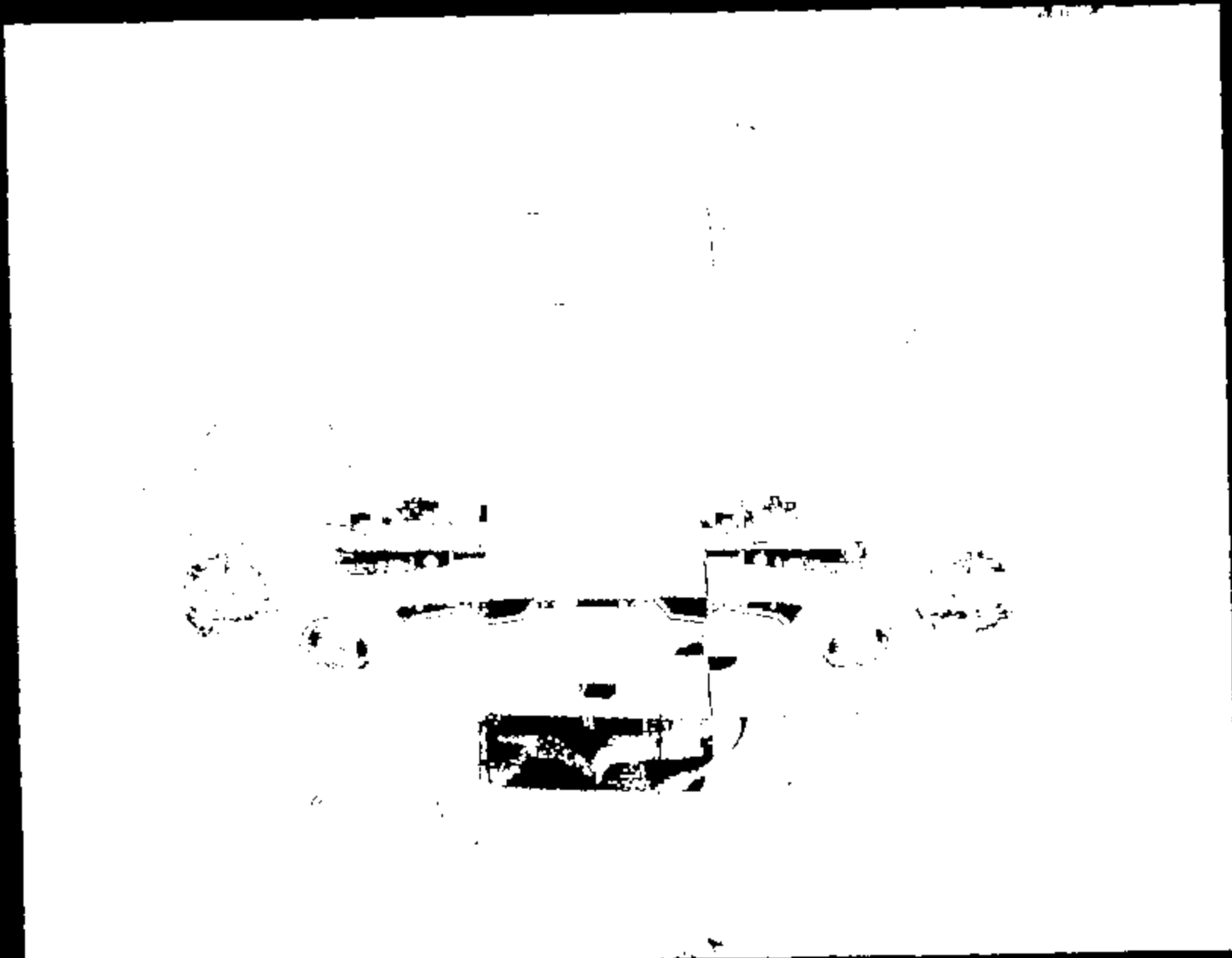
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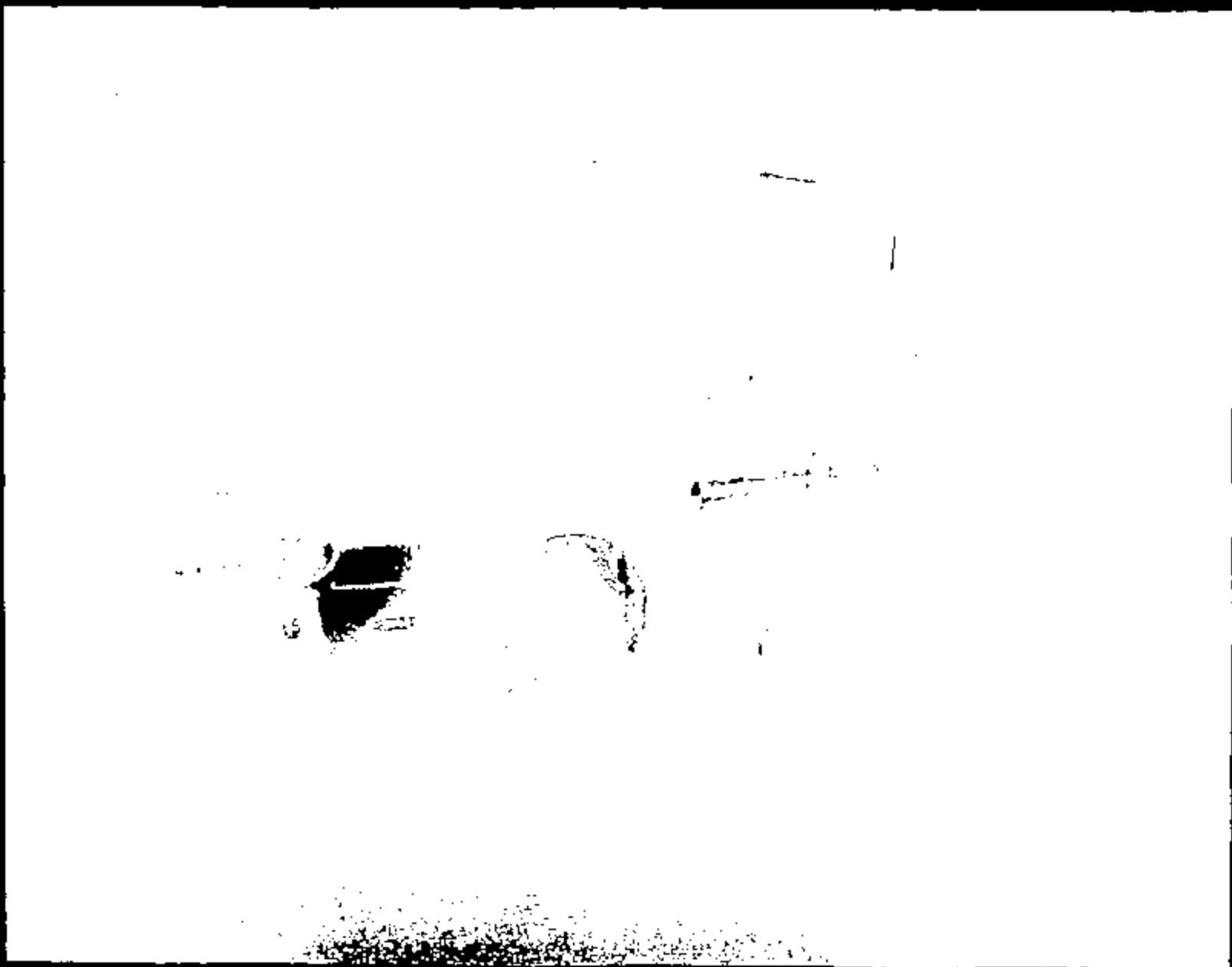
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CRTS 0010921



Name:

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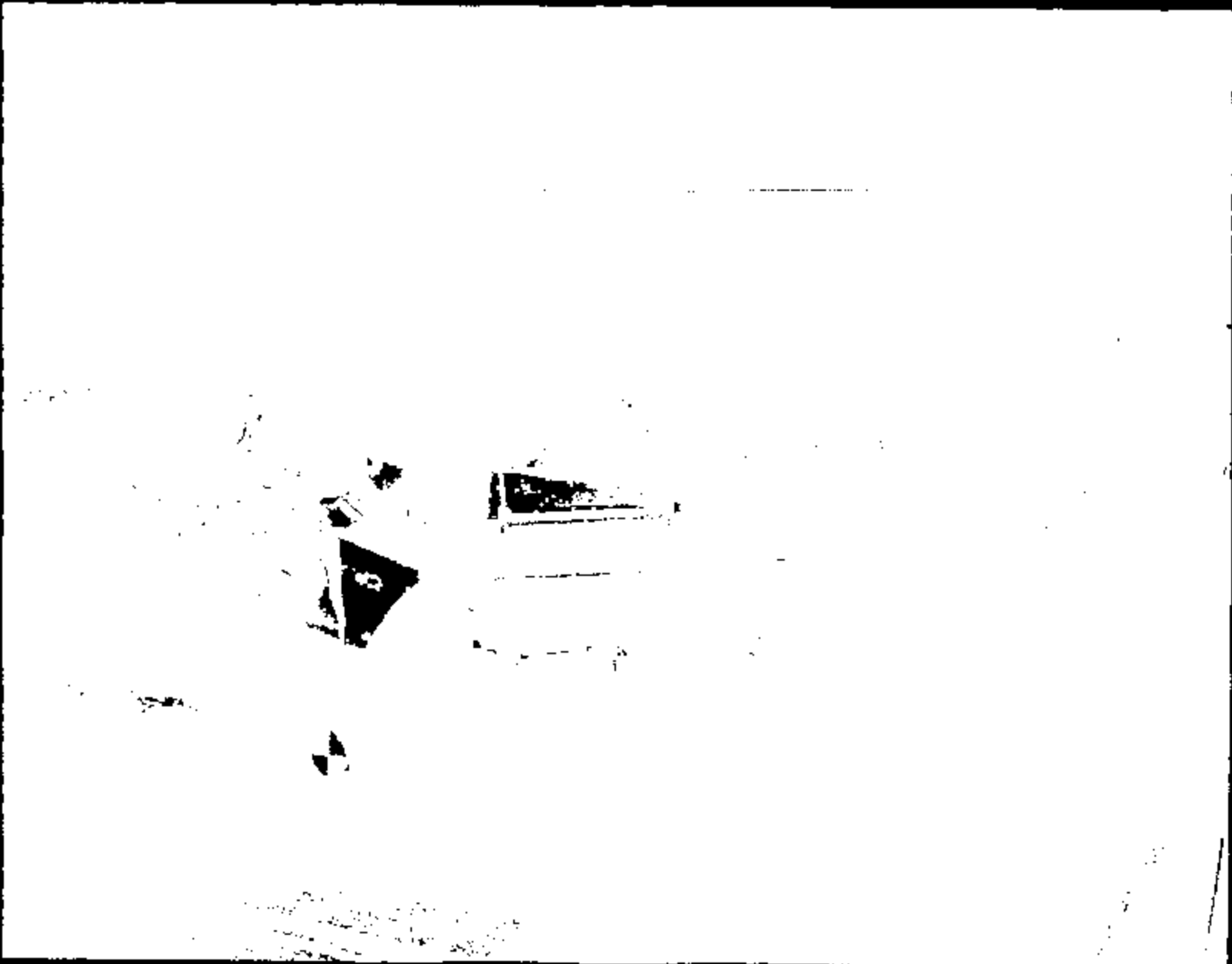
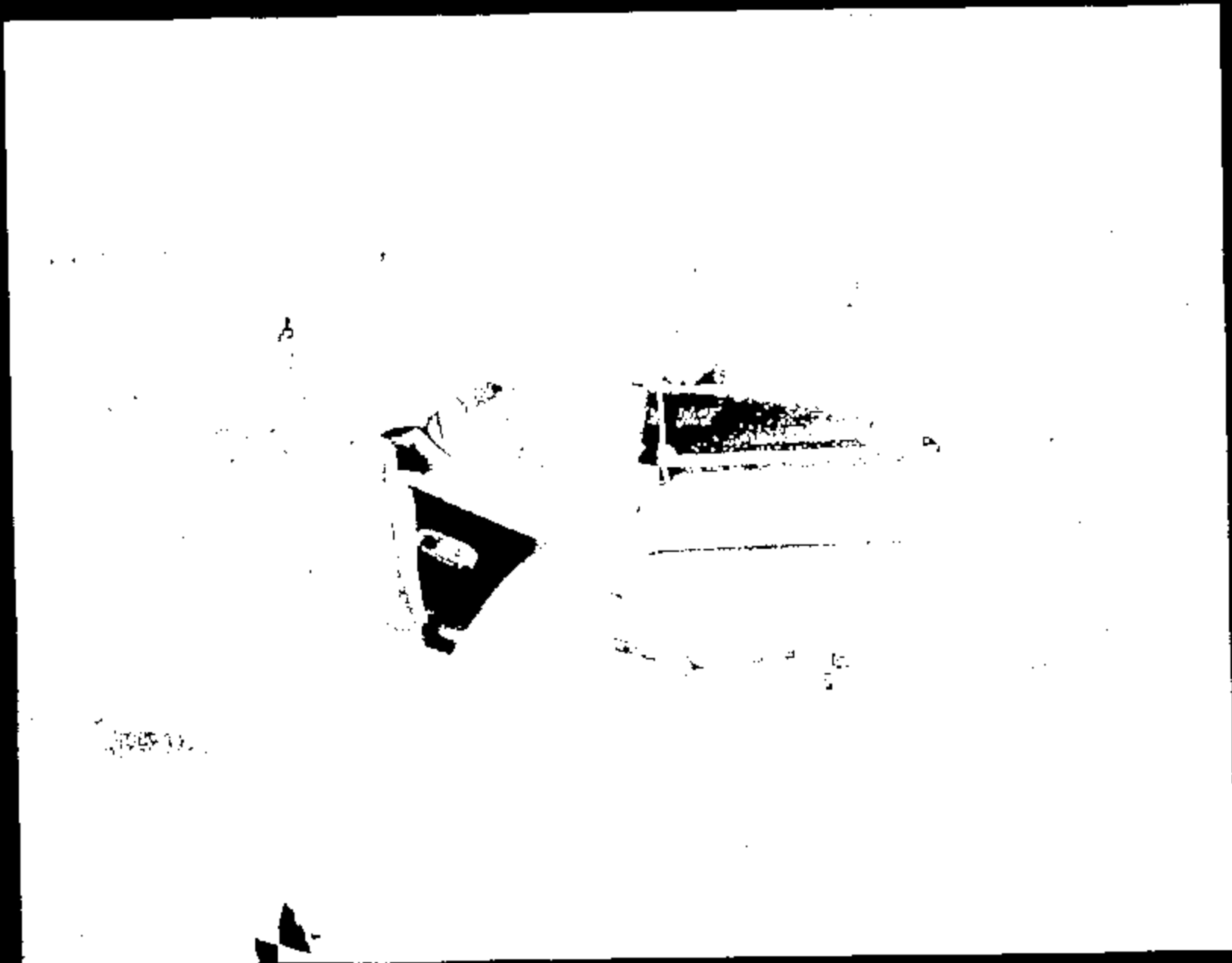


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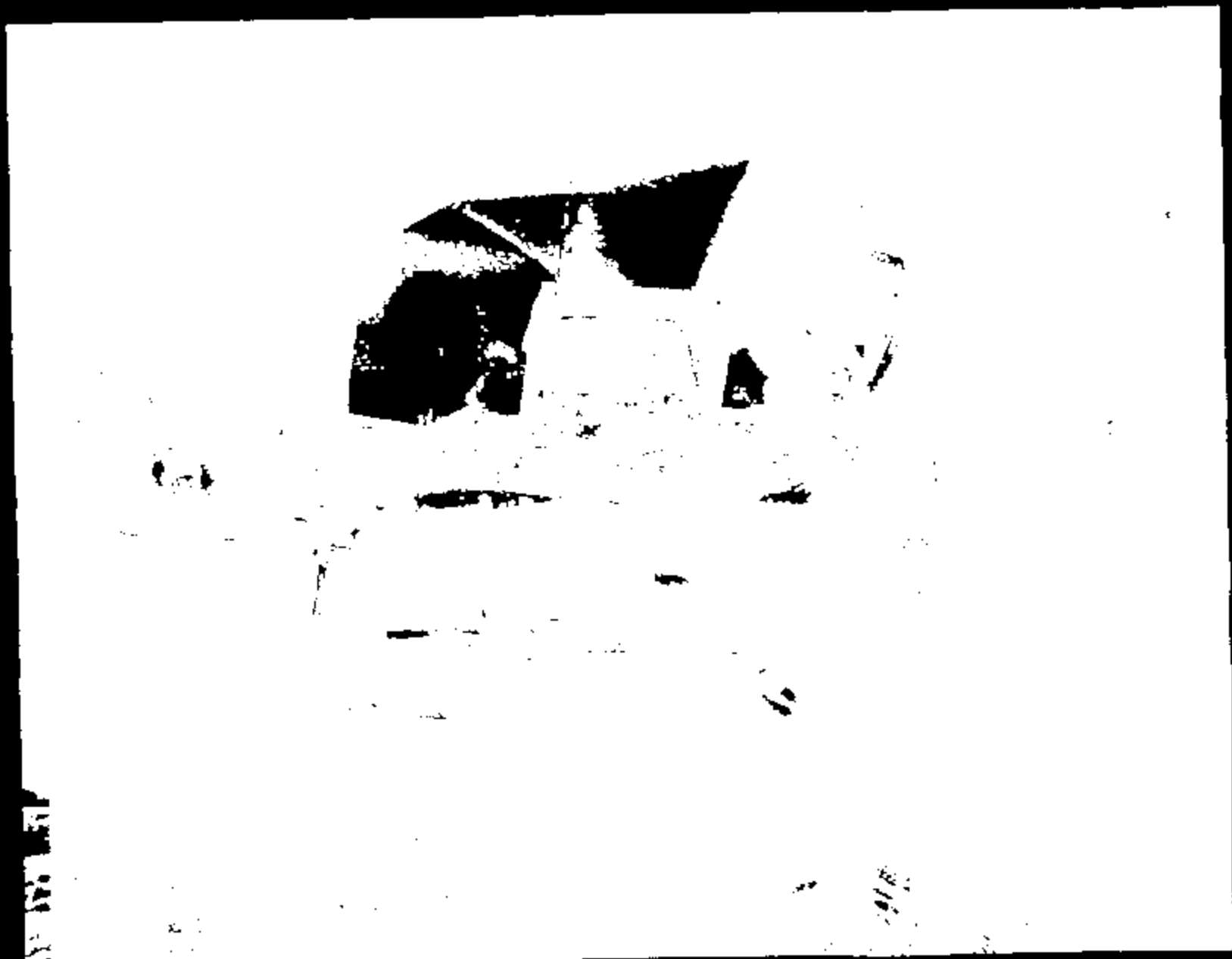
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CRIS 0010921

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LEWIS

CRIS 0010921

Name :

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Name:

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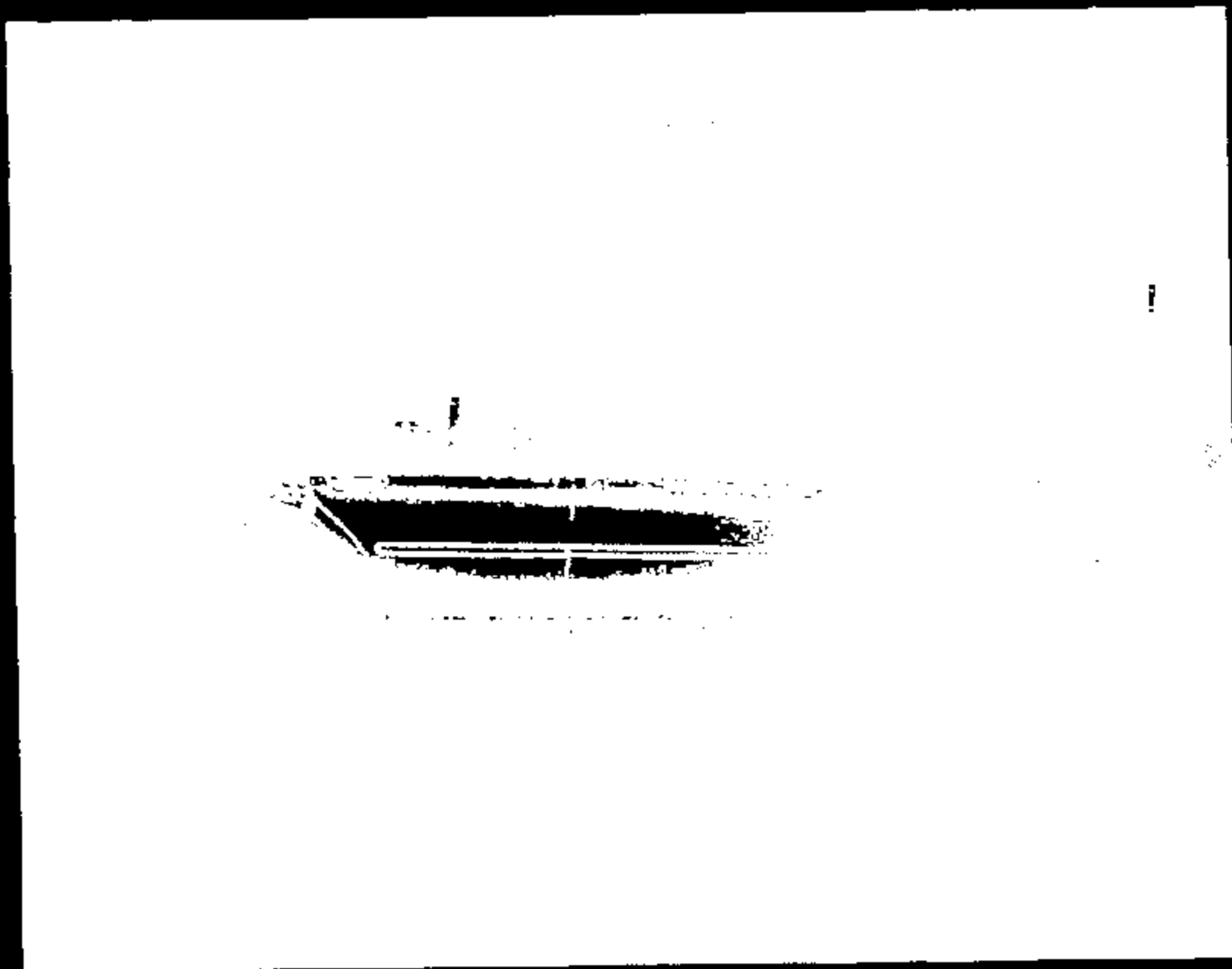
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CRTS 0010921



CRTS 0010921

Name :

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CRTS 0010921

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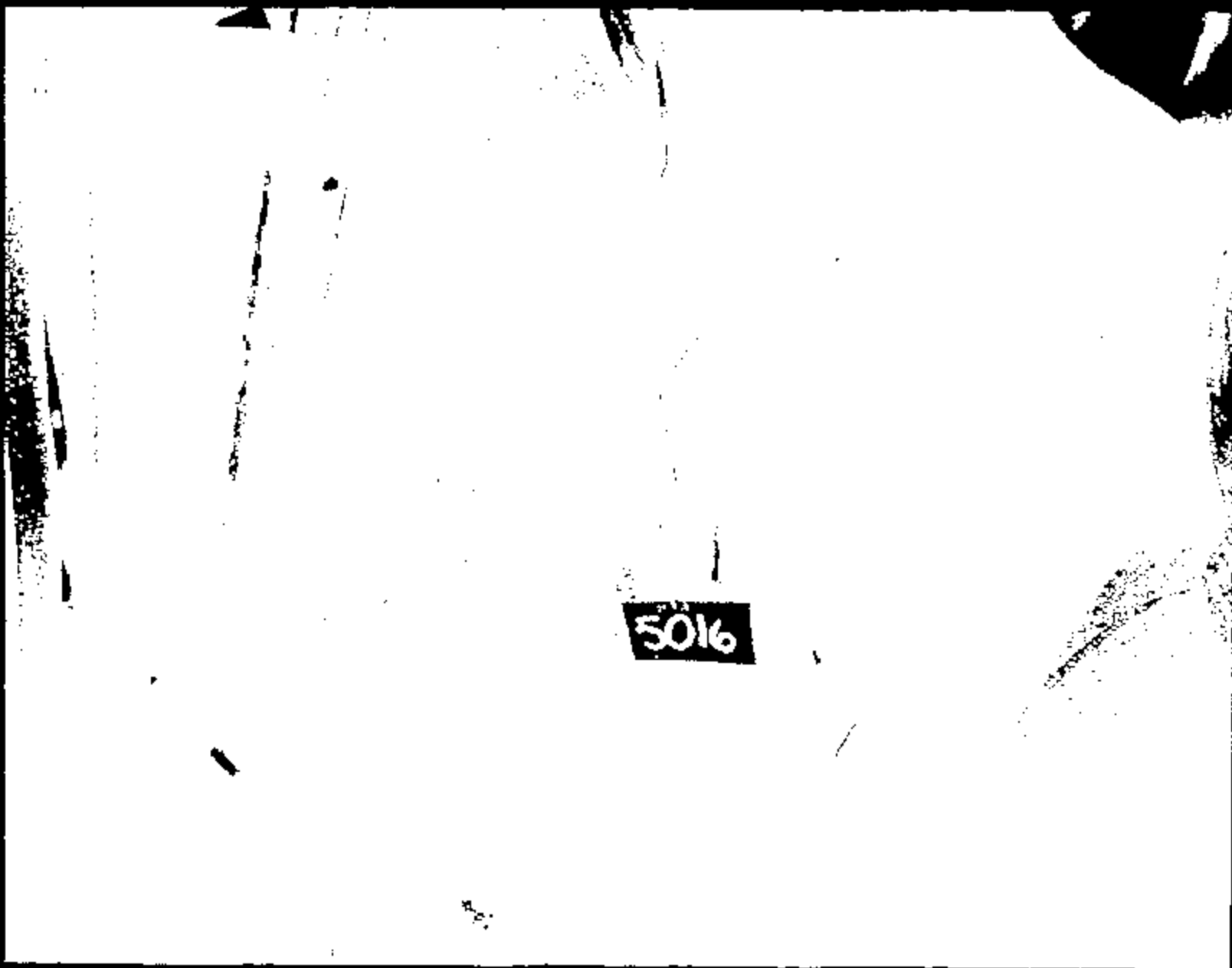
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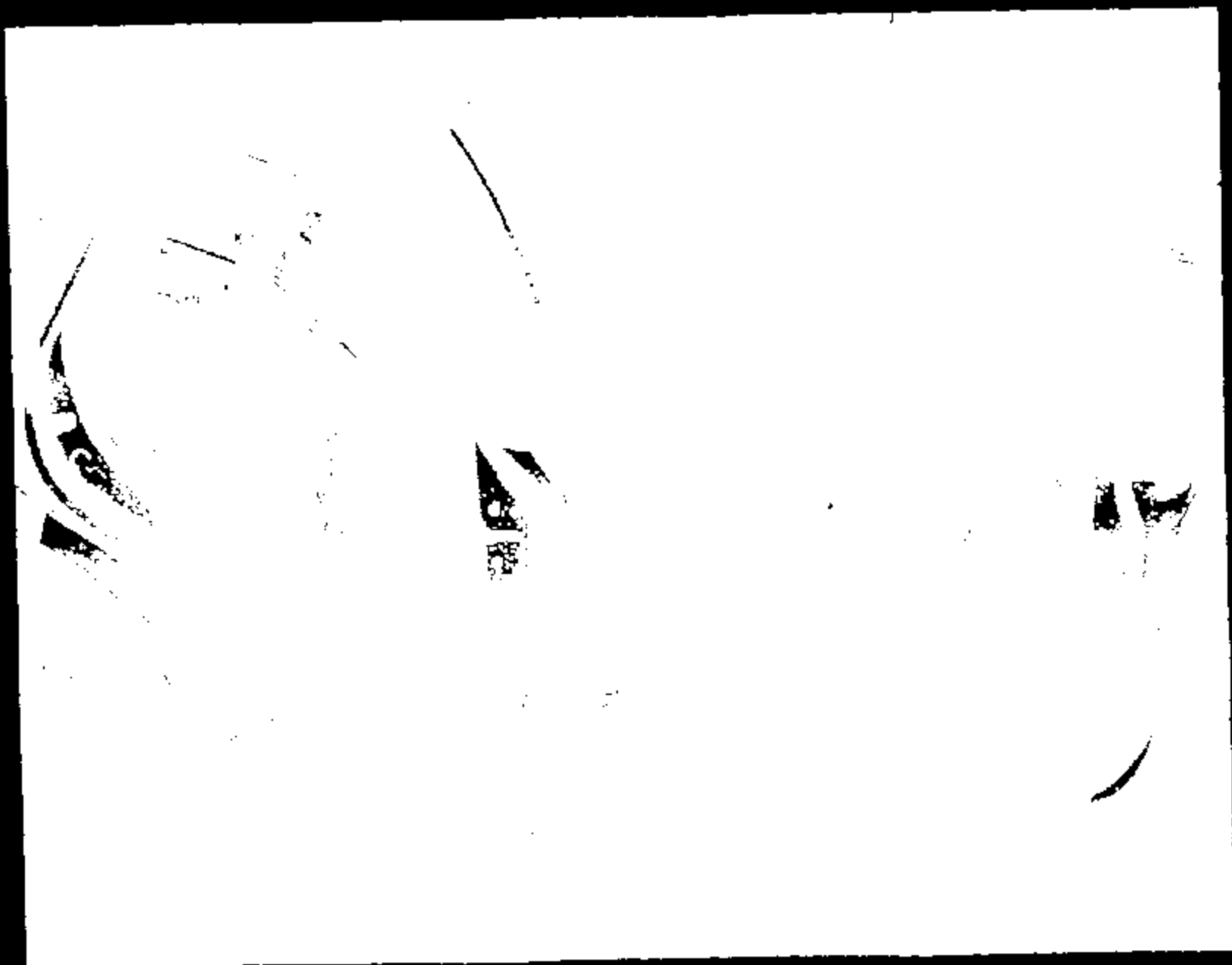


5016

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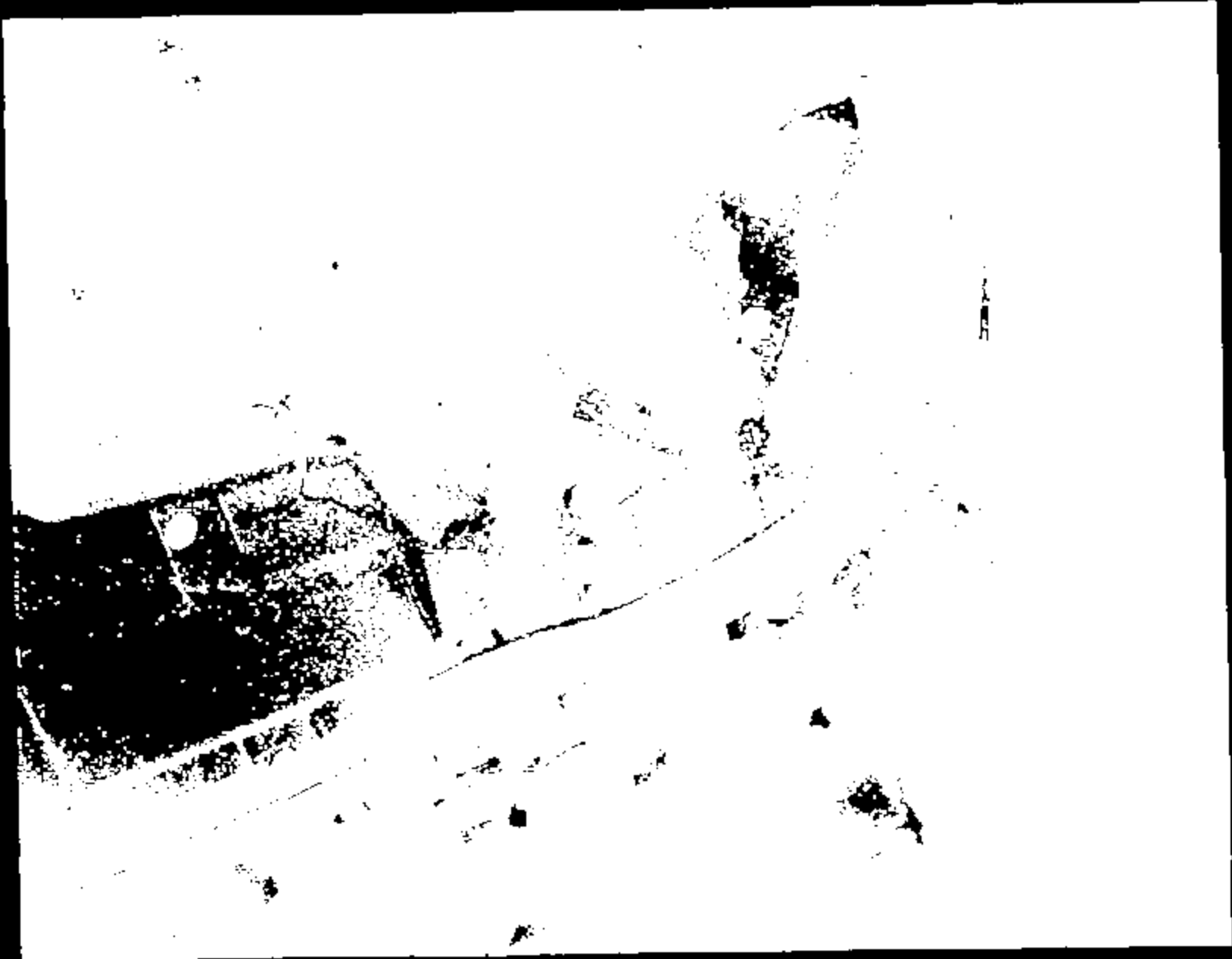




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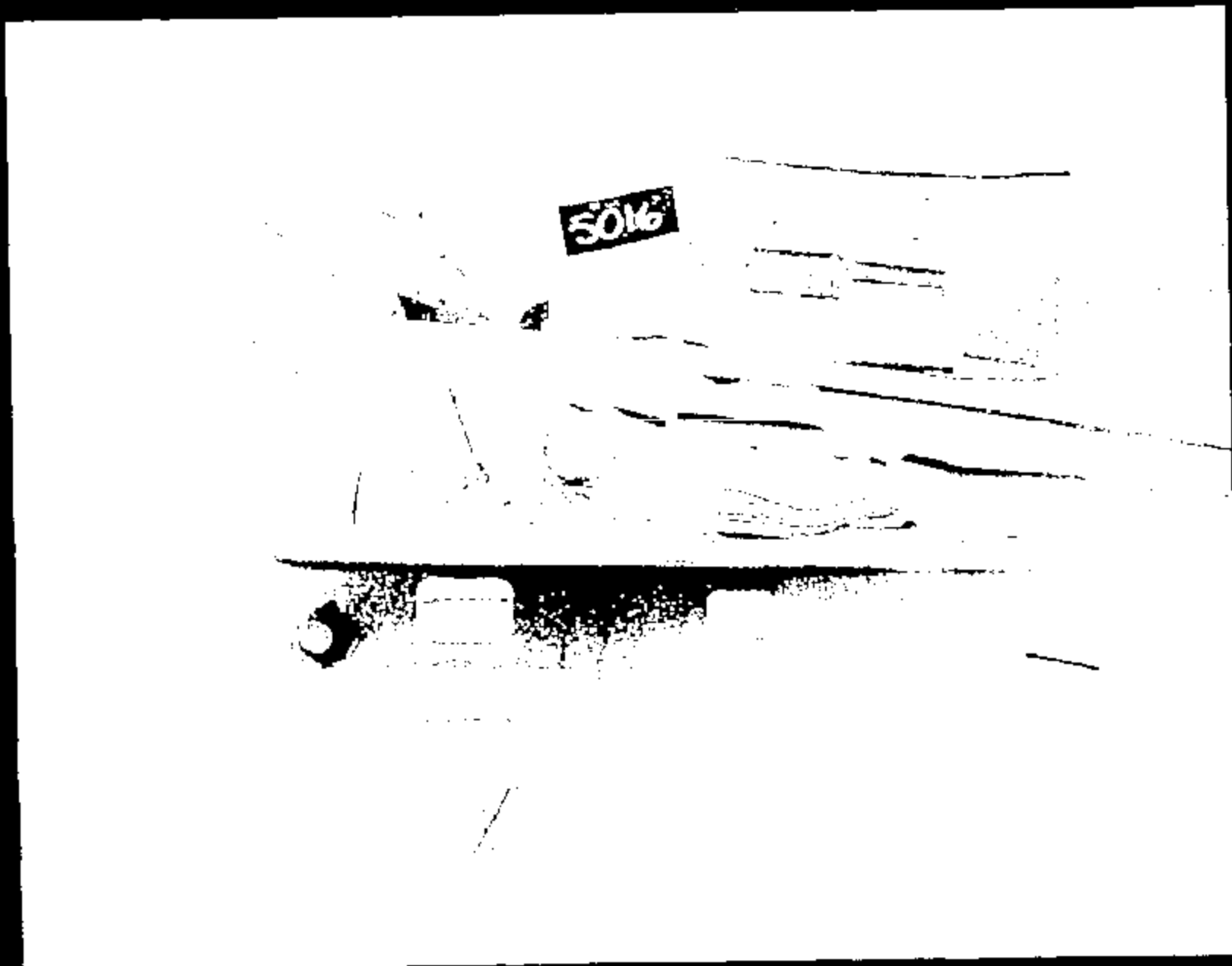
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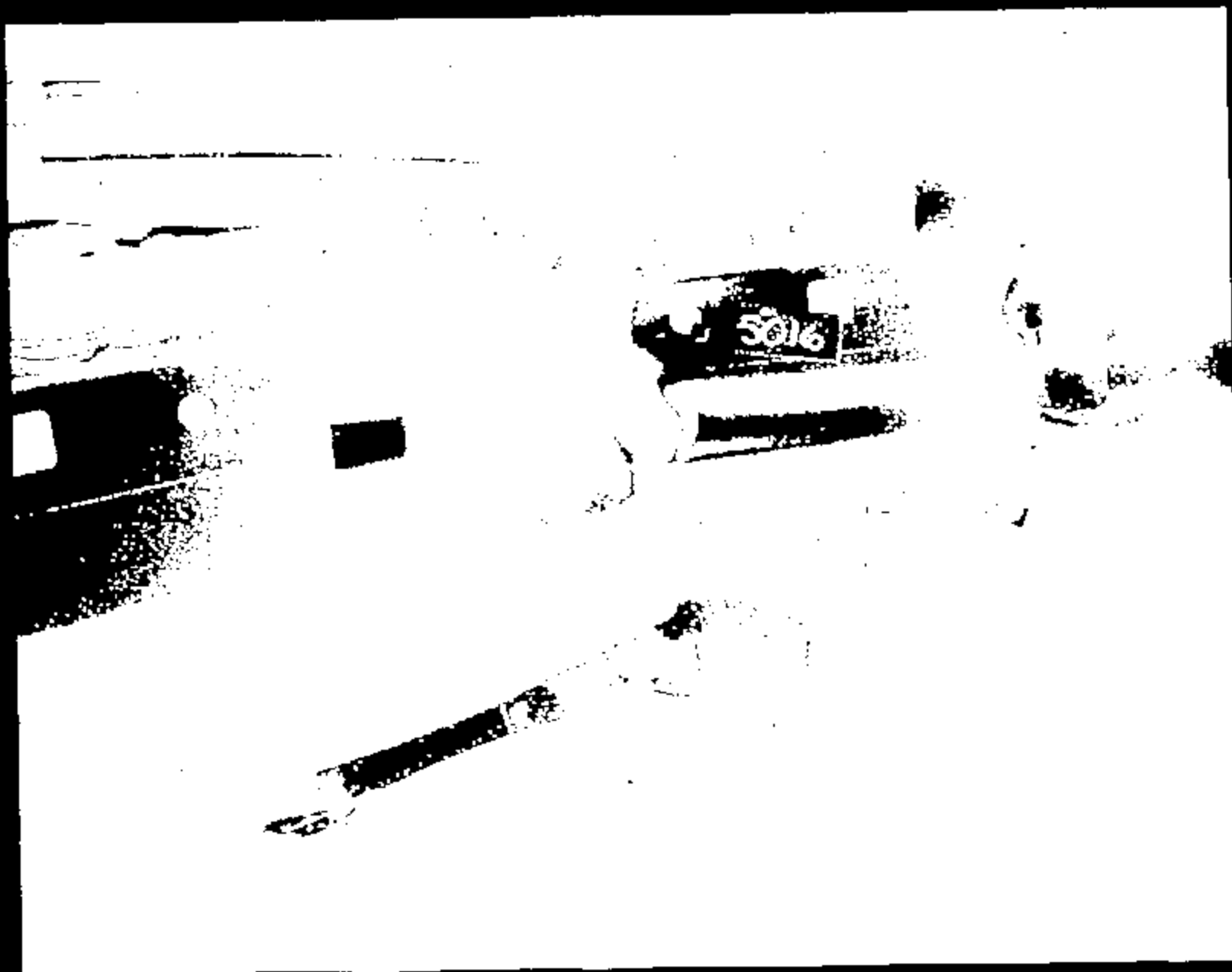
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CRTS 0010921

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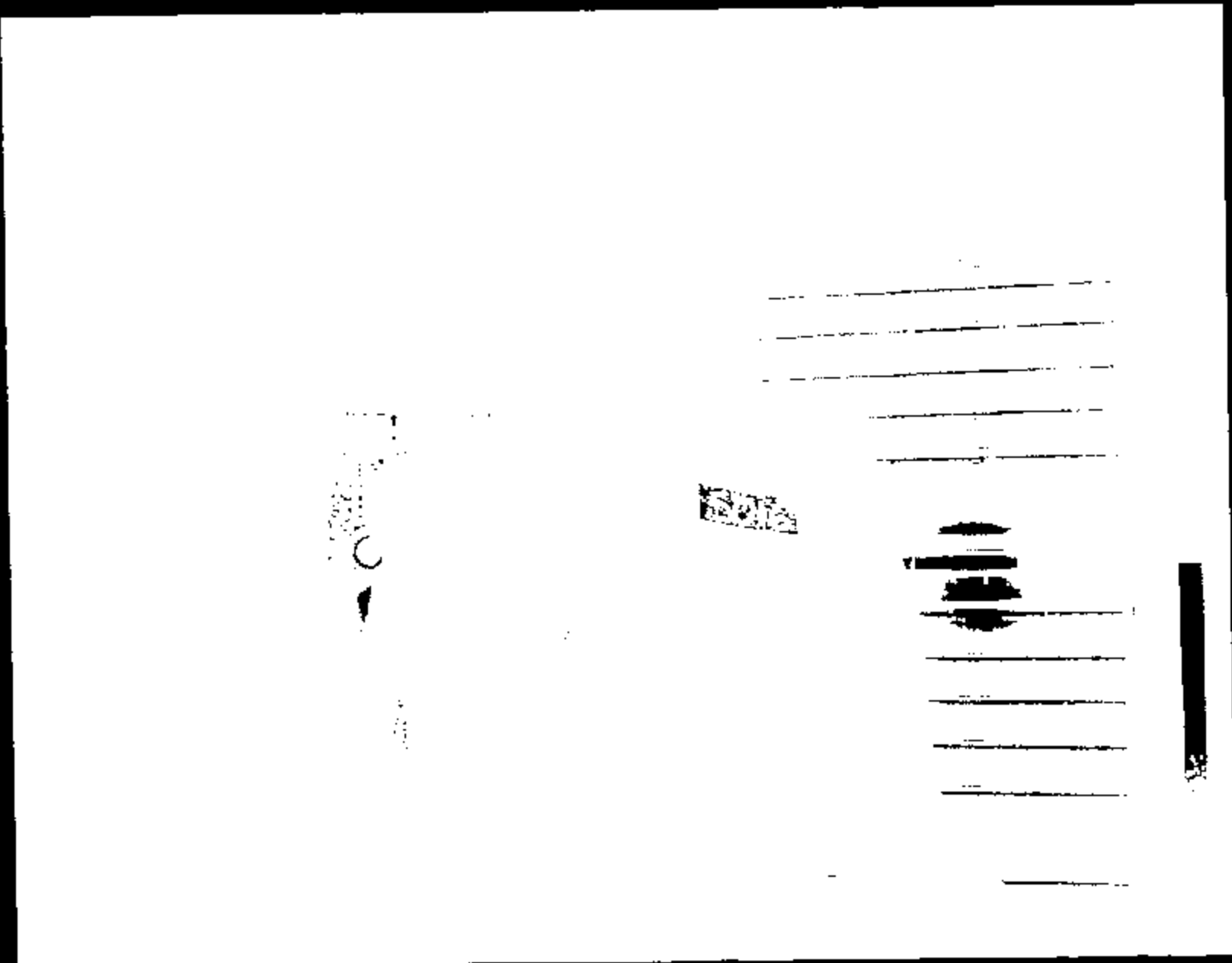
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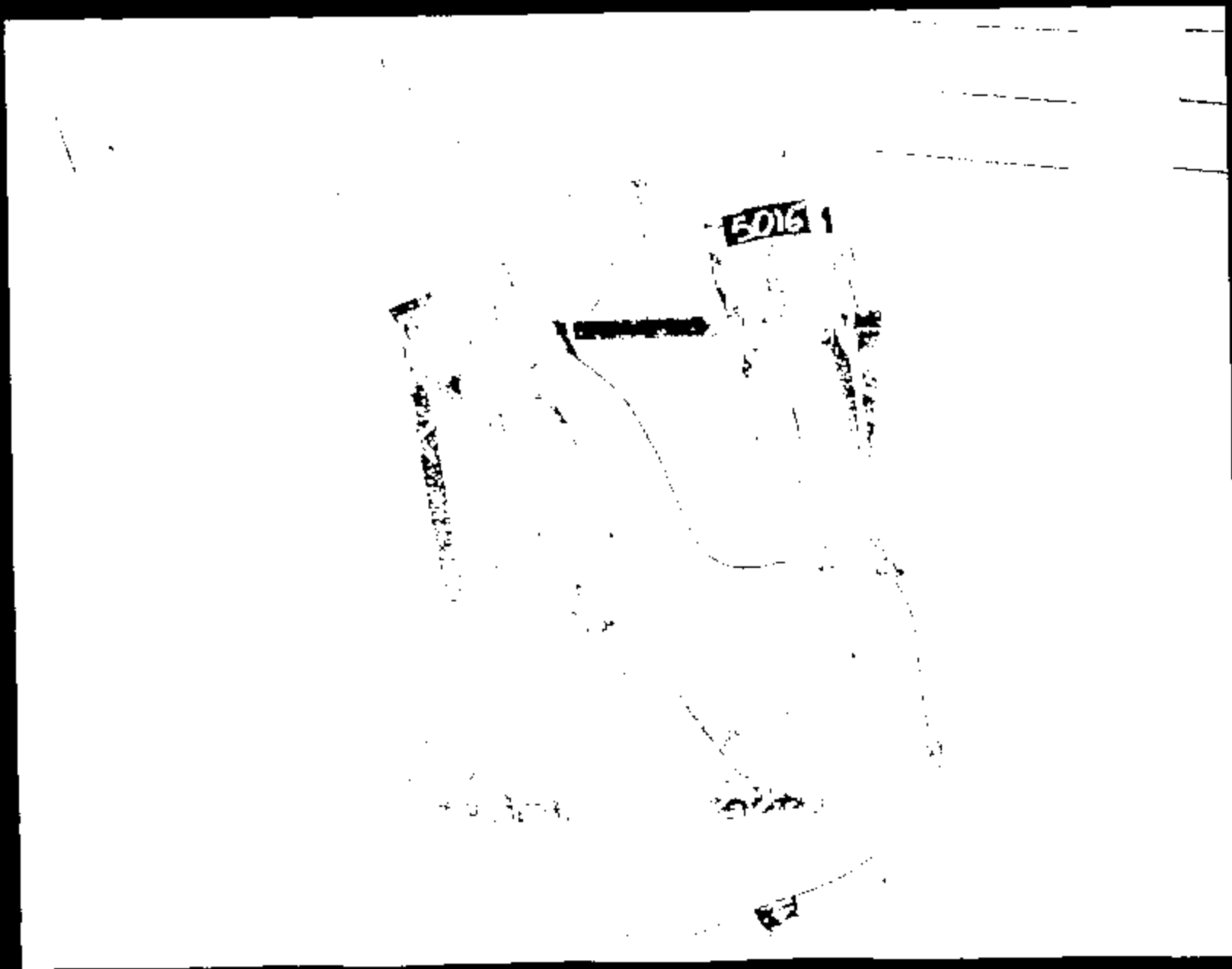
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CRTS 0010921



CRTS 0010921

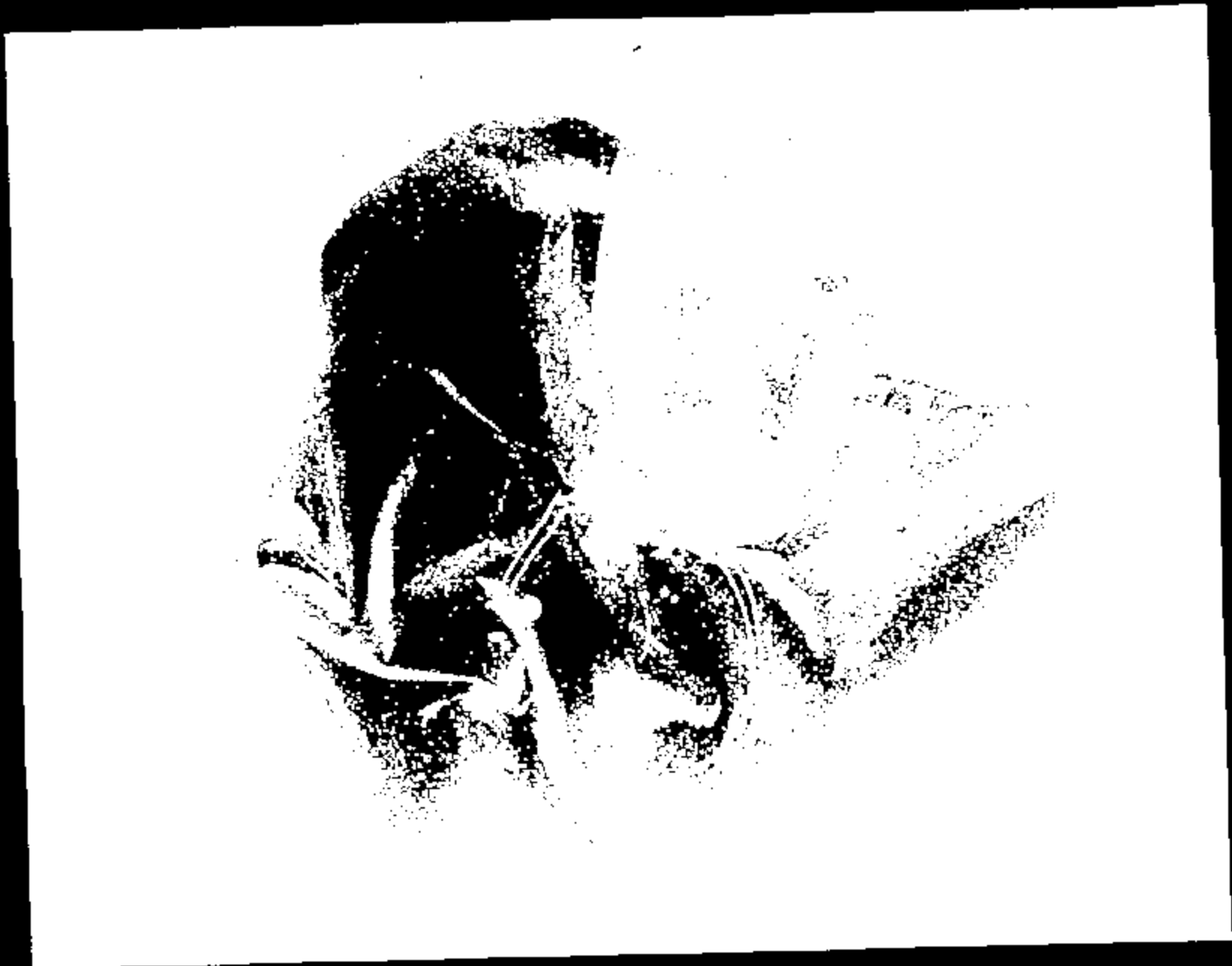
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CRTS 0010921

Name:

10921046.JPG



CRIS 0010921

March 1

10921047.JPG



Name:

10921049.JPG

CRTS 0010921





Name:

10921049.JPG

CRTS 0010921



Name:

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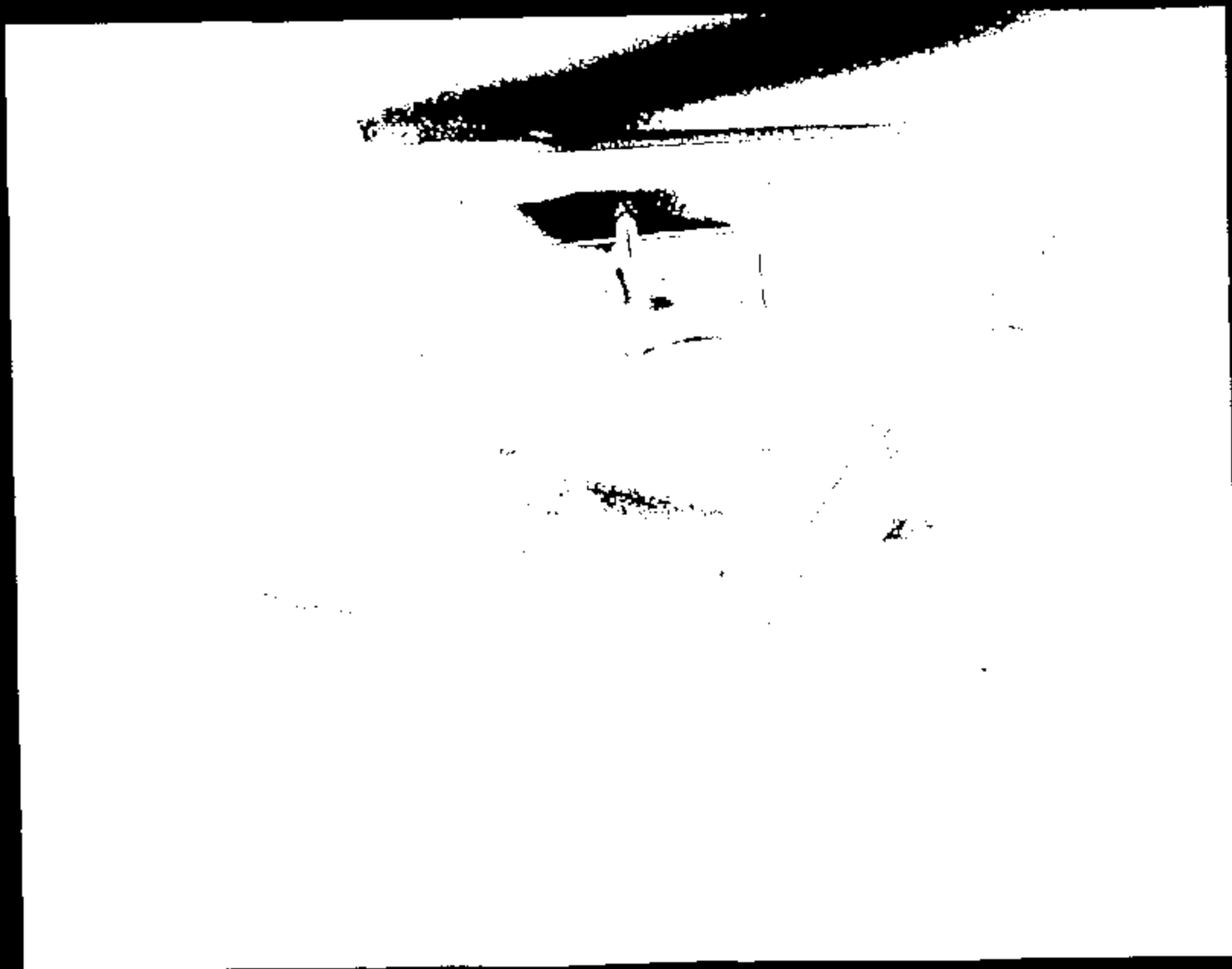
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Name:

10921051.JPG

CRTS 0010921



Name:

10921052.JPG

CRTS 0010921



Name:

10921053.JPG

CRTS 0010921



Image:

10921054.JPG

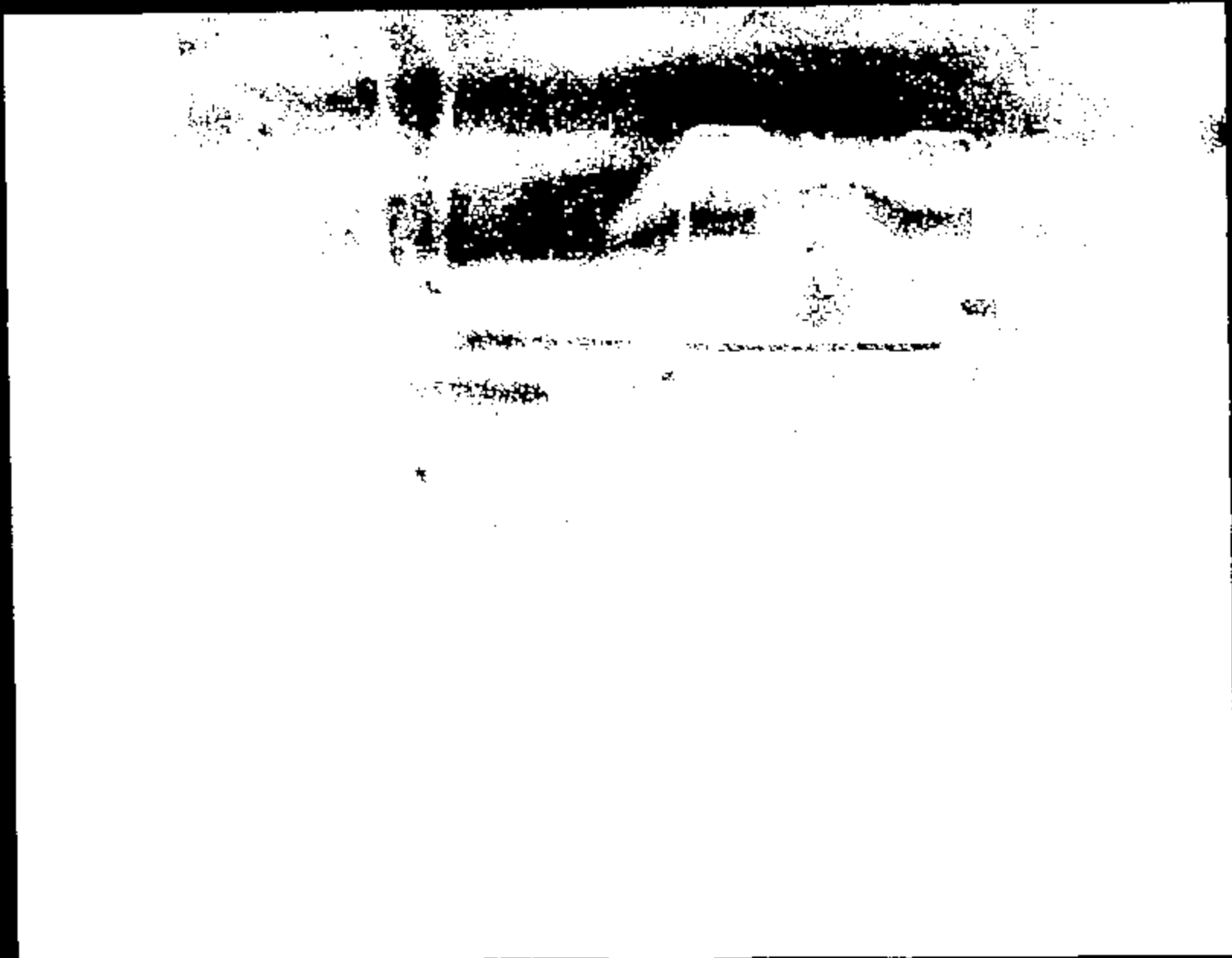
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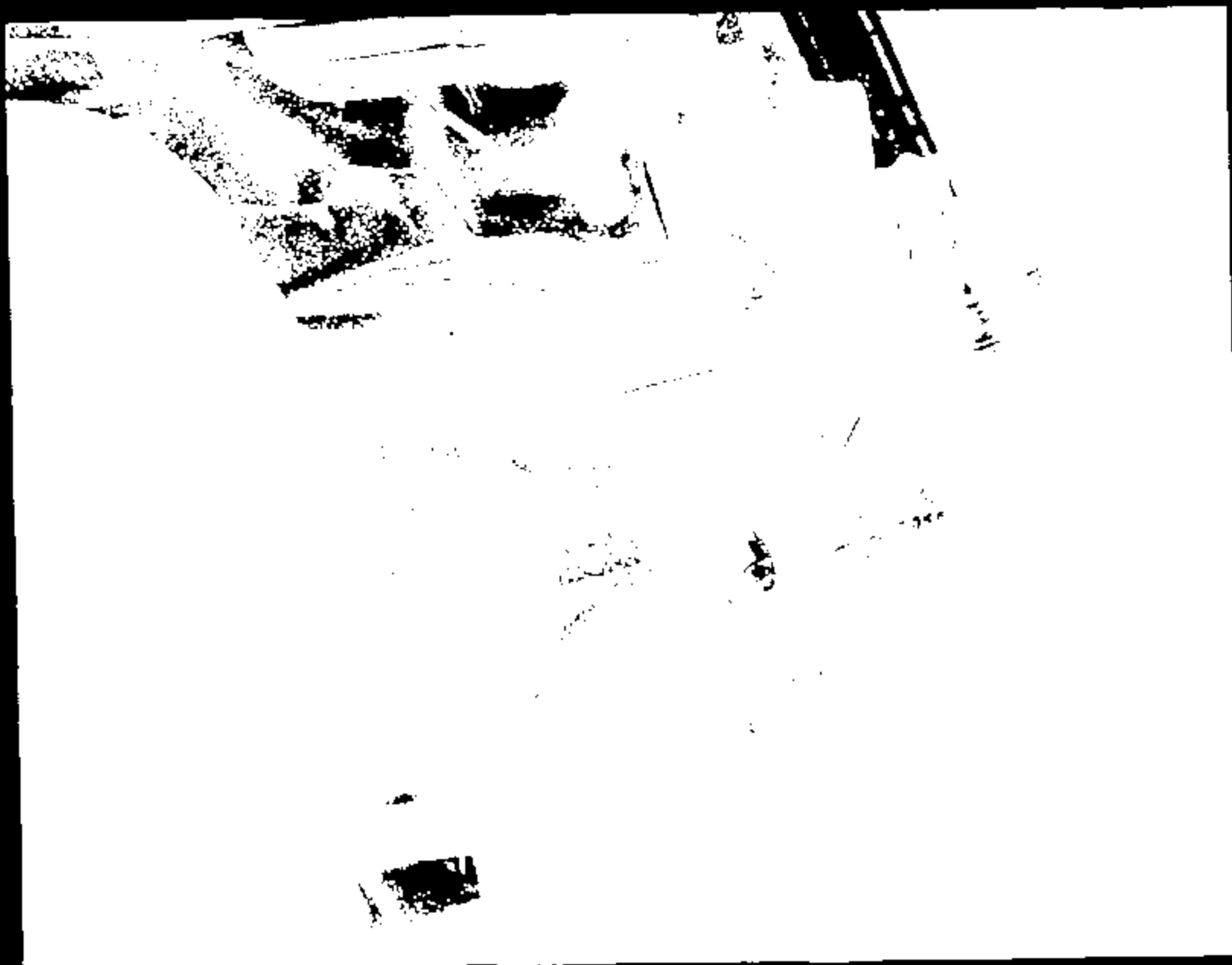


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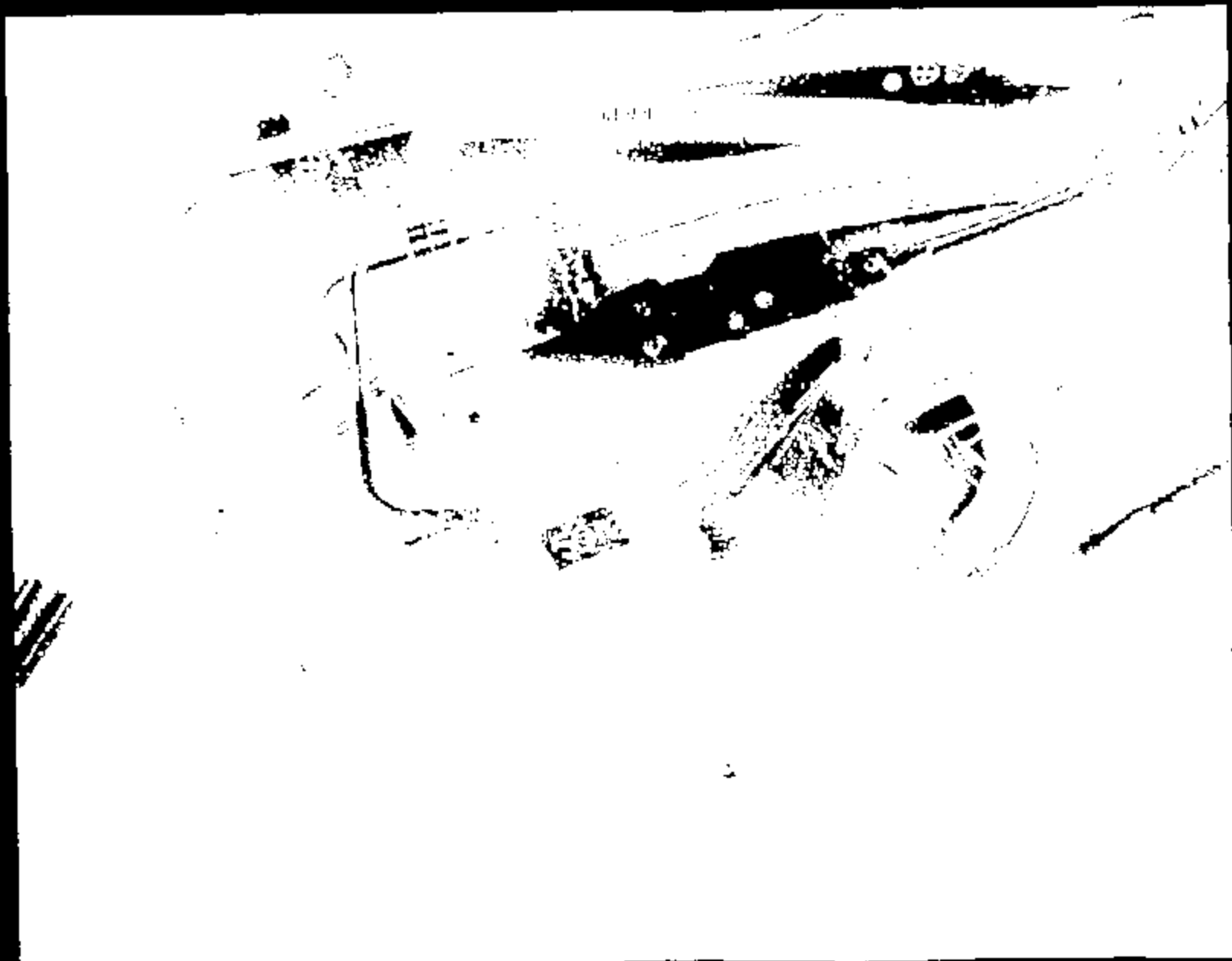
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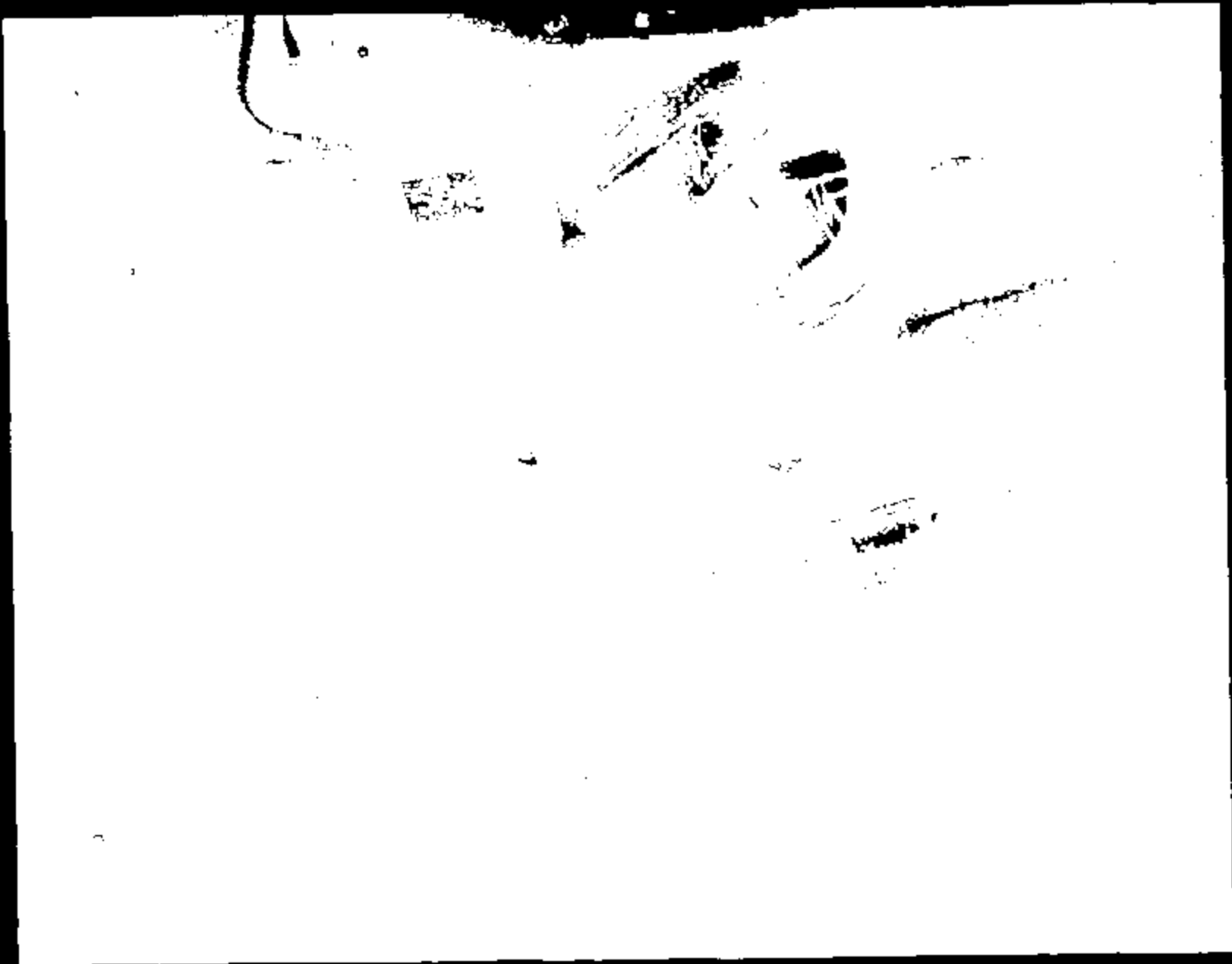
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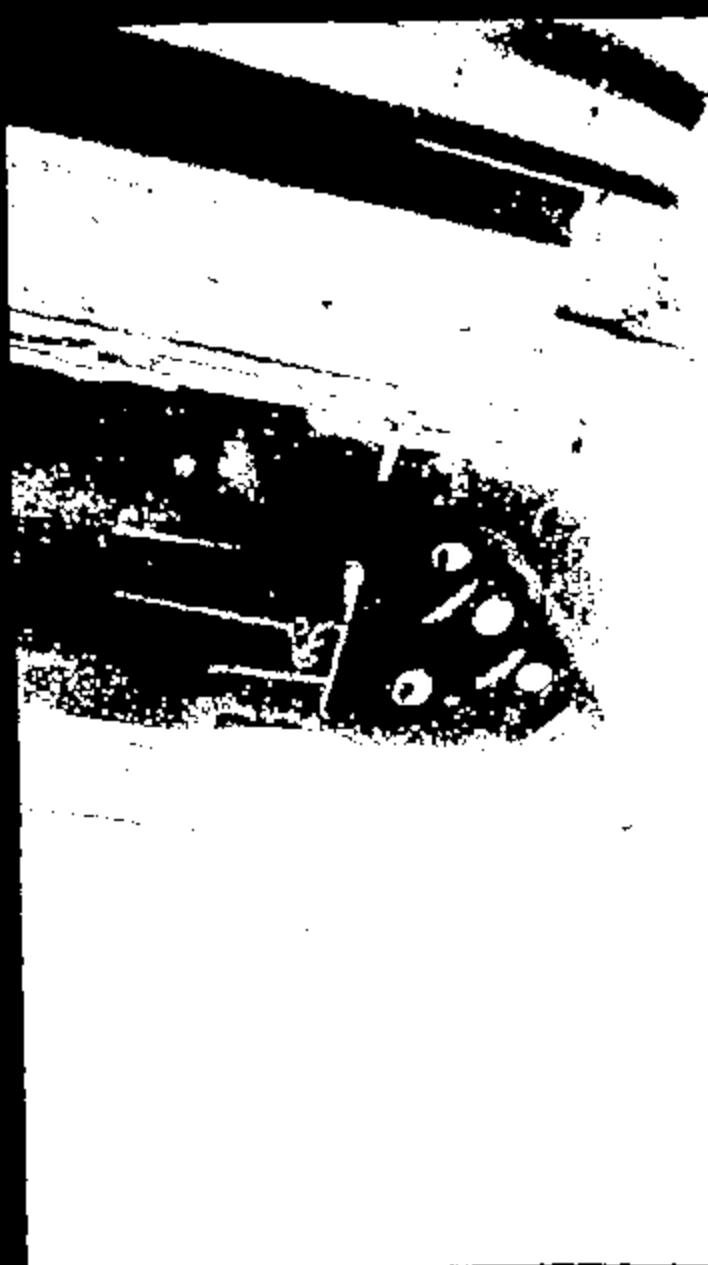
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Name :

10921060.JPG

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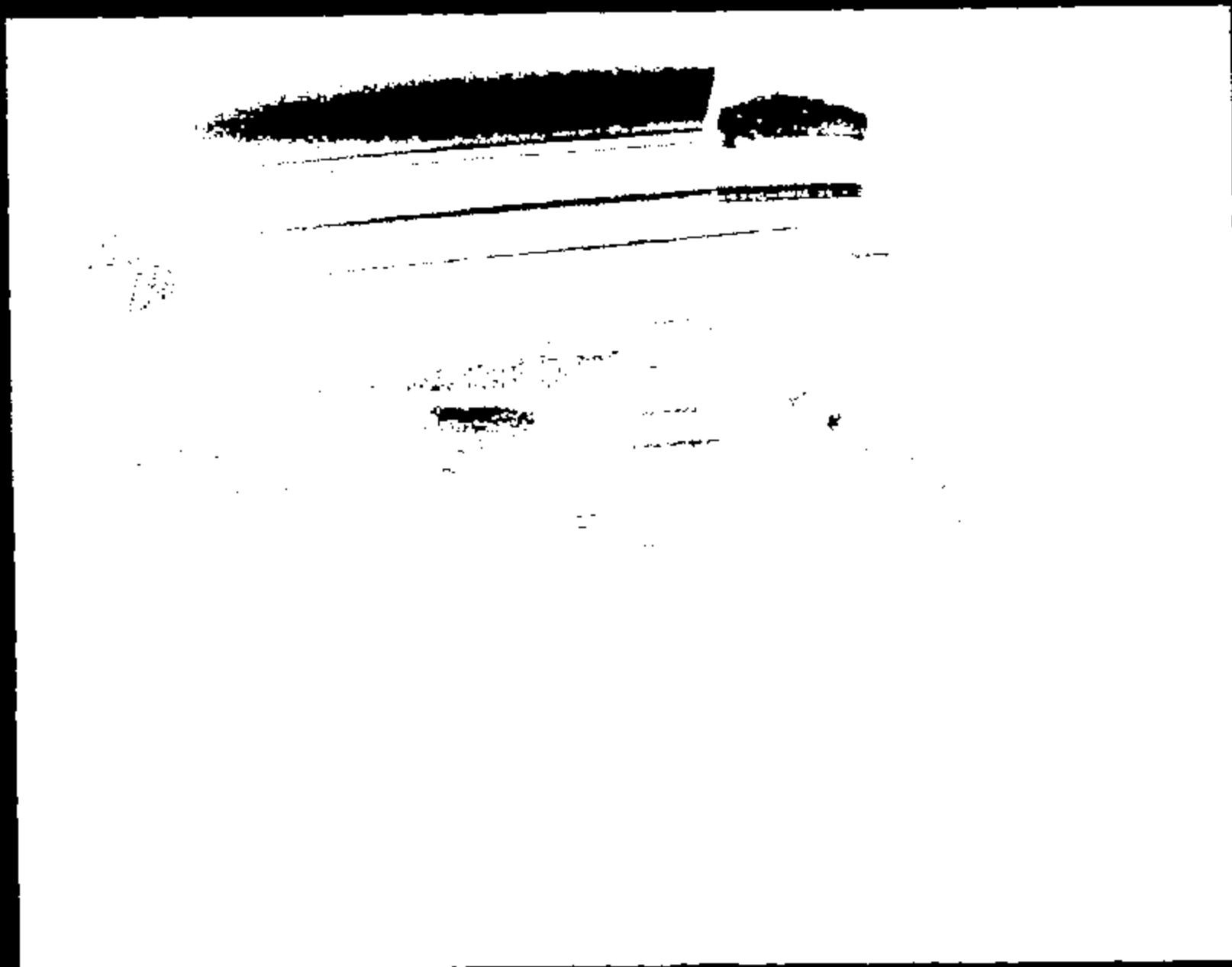
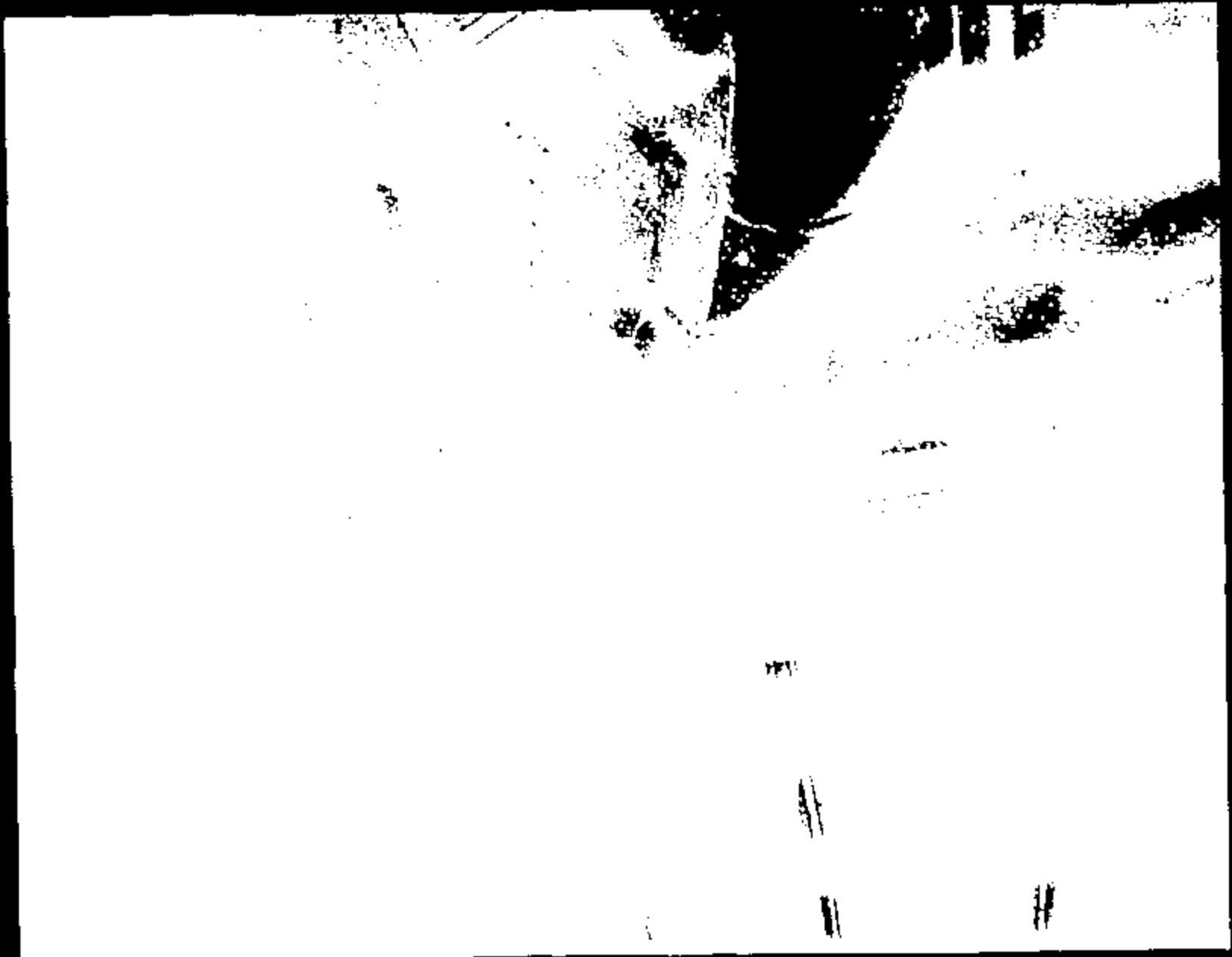


Image 1

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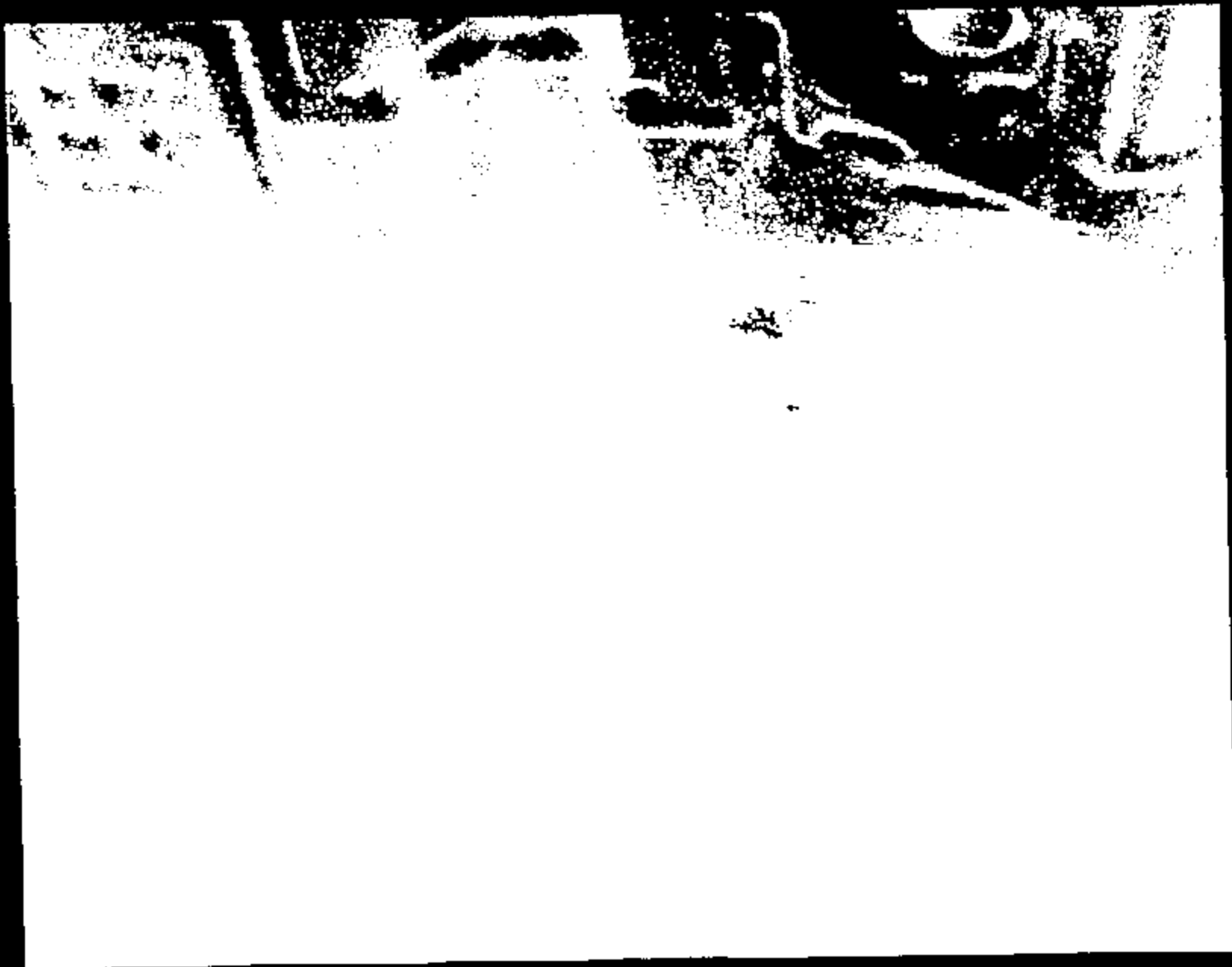
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CRIS 0010921

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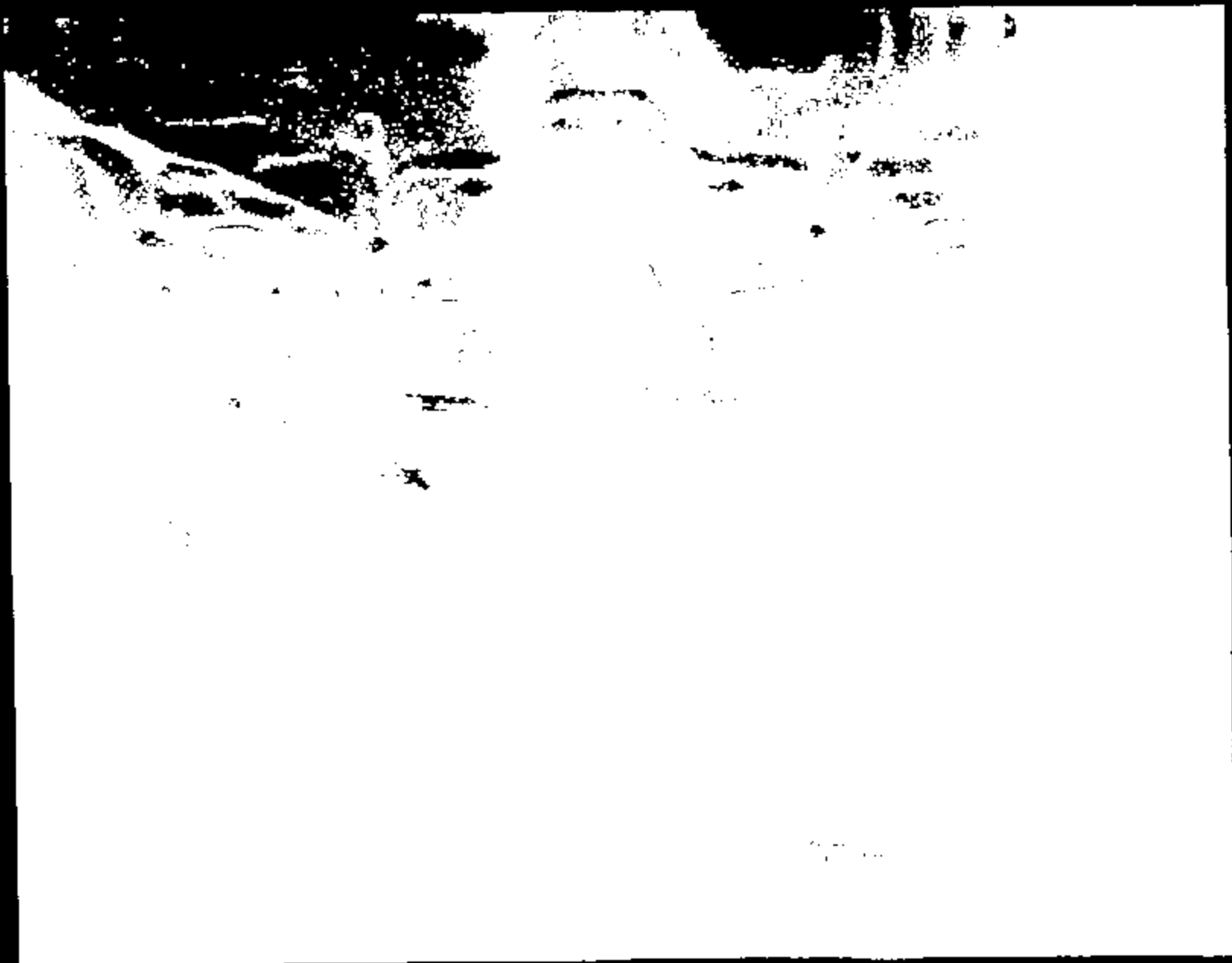
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Name :

10921063.JPG

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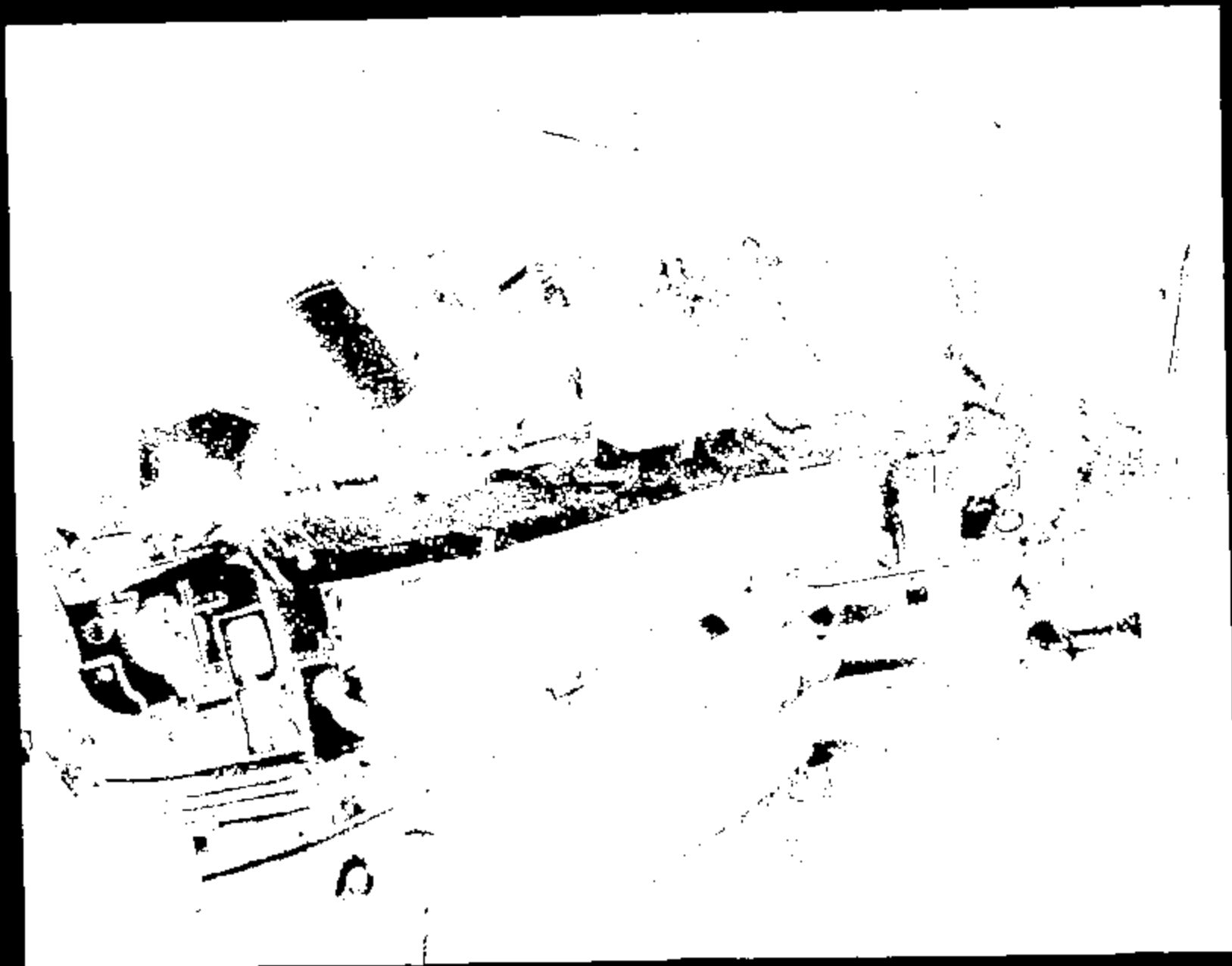


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CRTS 0010921





Name:

10921065.JPG

CRTS 0010921



Name:

10921066.JPG

CRTS 0010921



Name :

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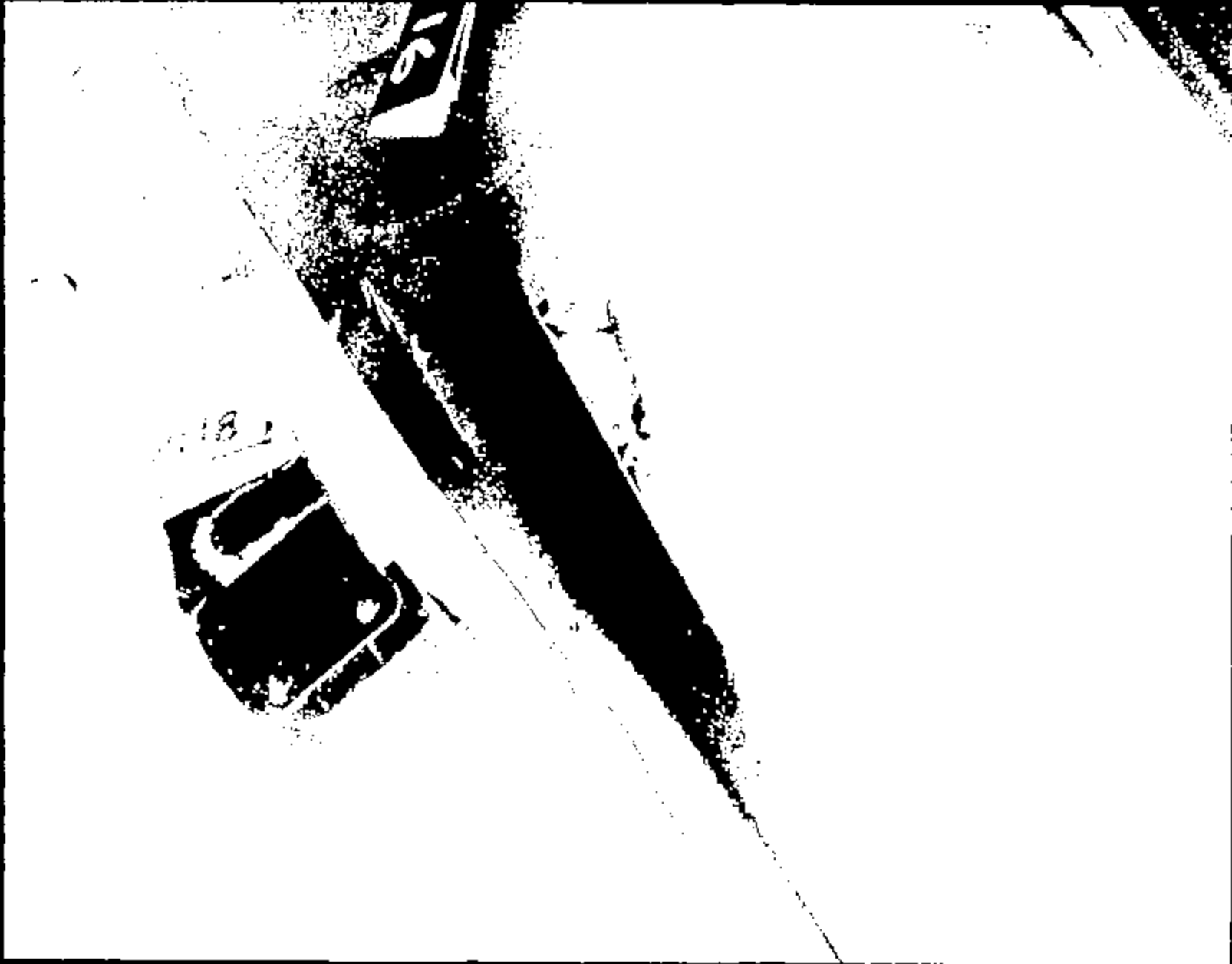
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18921068.JPG

CRTS 0010921



Name :

10921069.JPG

CRTS 0010921



Name:

10921070.JPG

CRIS 0010921



Name:

10921071.JPG

CRIS 0010921



Name:

10921072.JPG

CRTS 0010921





Number:

10921073.JPG

CRTS 0010921



Name :

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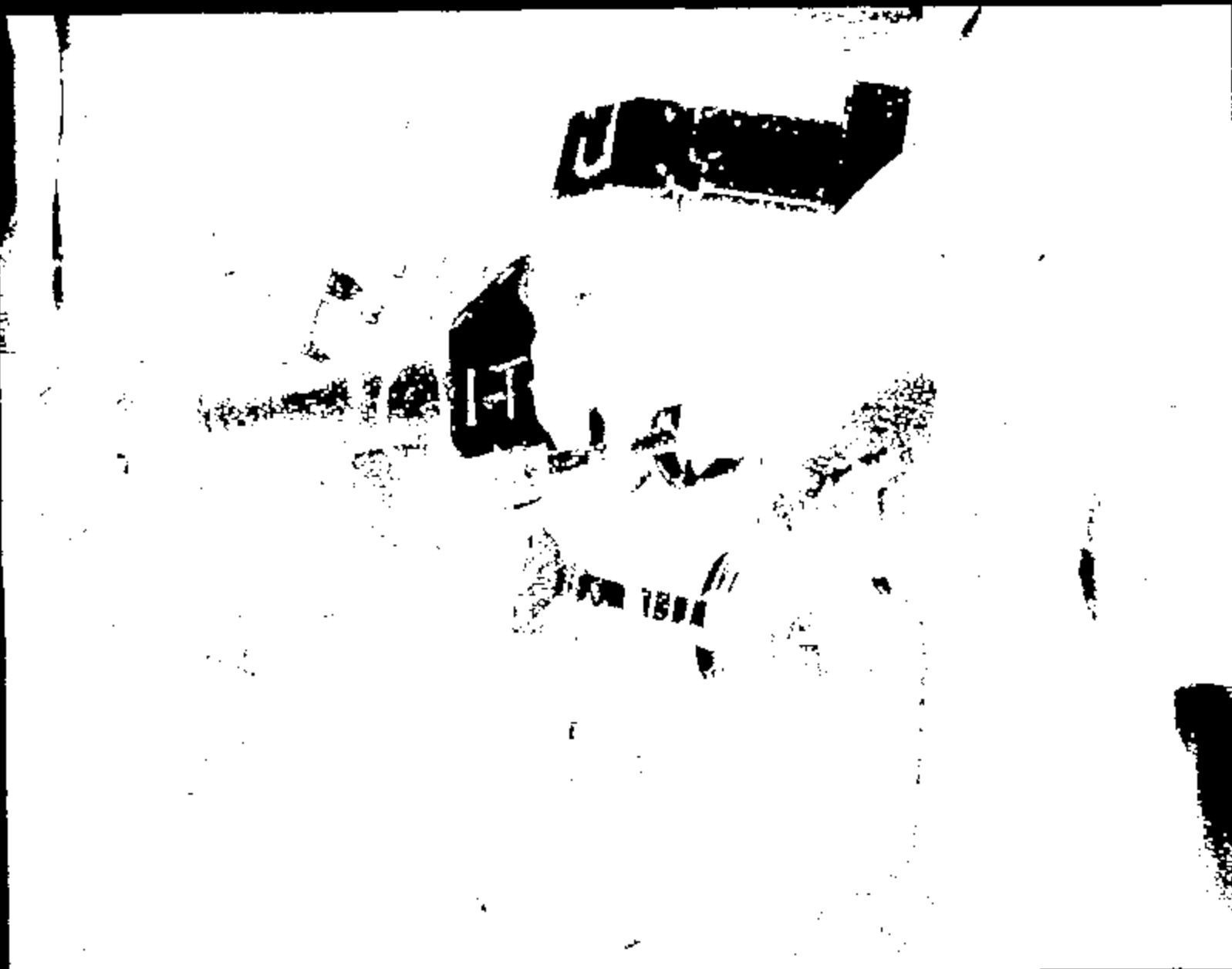
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Image:

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CRTS 0010921



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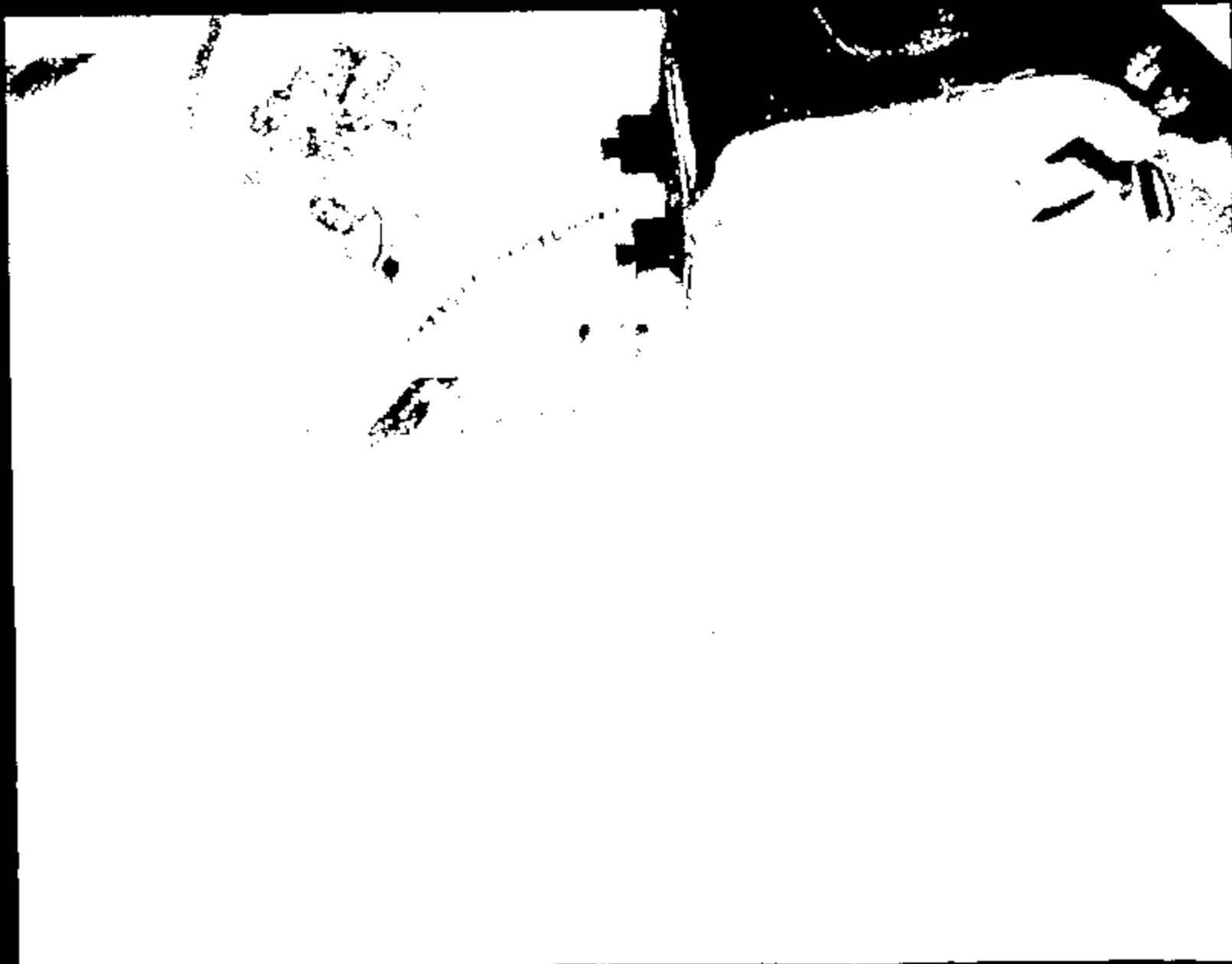
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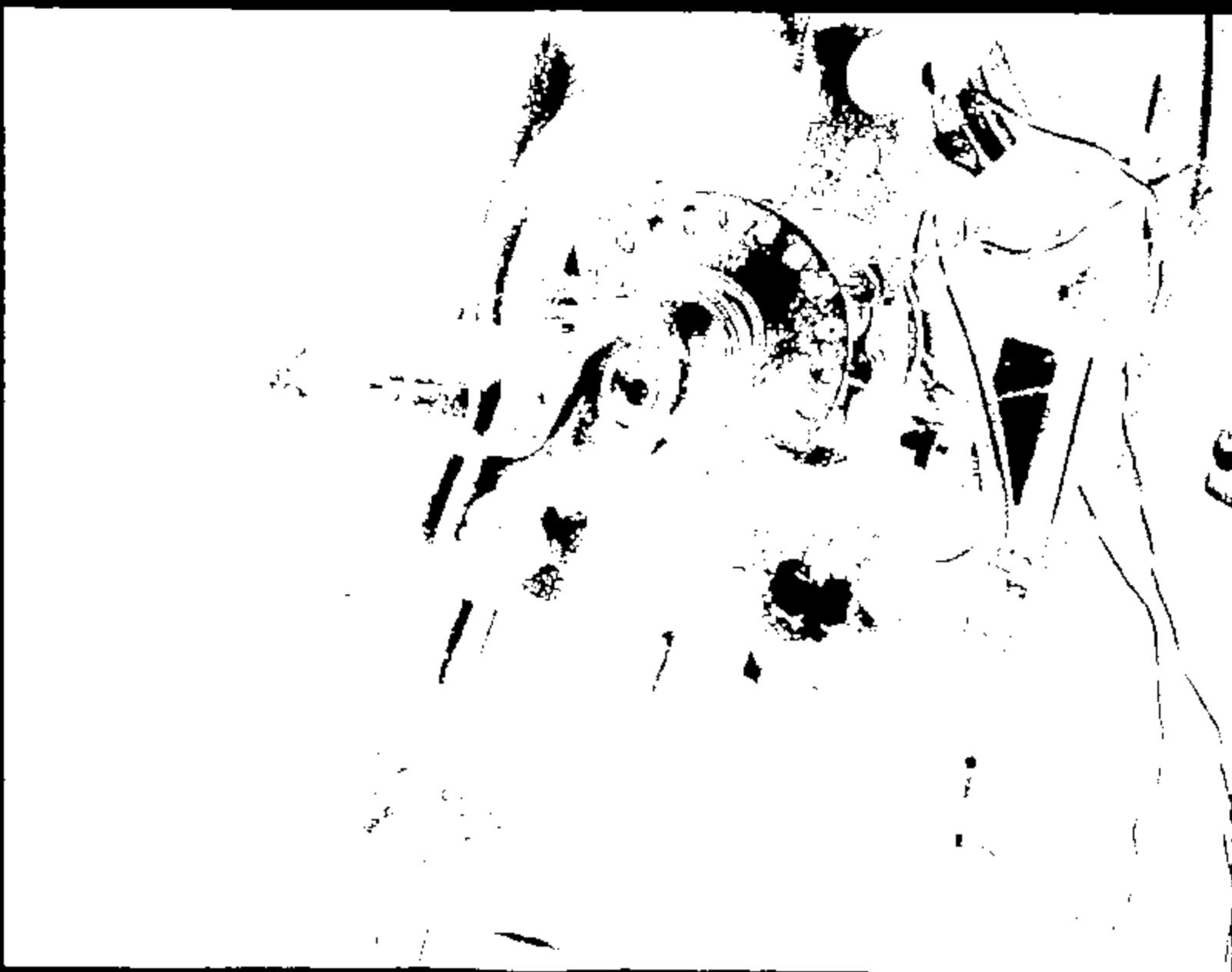
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Name:

10921079.JPG

CRJTS 0010921



Name :

10921080.JPG

CRTS 0010921



# TEST AUTHORIZATION

TEST ORDER NUMBER TAD016

TO: J. Kiledentk	CC: J. Schlichter, J. Smith, J. Taylor, J. Williams, J. Young, K. Kelly, M. Larkin, R. V. Viharek	REQUEST DATE: 09-29-97	REQUESTING COMPLETION DATE: 10-03-97
		REQUEST NUMBER: TAD016	PROGRAM NUMBER: N/A
		SUBJECTIVE SECTION: AV2215A	

TITLE OF TEST: 2000 D186 40 mph Frontal Offset Impact		PARTS DUE DATE: 09-26-97	
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: 3EST204 0C0418	VEHICLE MODEL & YEAR: 2000 D186 40 mph Frontal Offset Impact	PRODUCT OR STD. LETTER: C26-0241
ENGINE NO. DISPL. CARS. S.O.L. BY	TREATMENT/ISSUE: ARAM	AXLE RATED: N/A	DISPOSITION OF PARTS: Beyond
TYPE OF FUEL: N/A	CONVERTER: N/A	TERMINATION LIMITED: N/A	PROCUREMENT REQUIRED? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO CODE
ENGINE OIL AND CAPACITY: N/A	TIRE SIZE AND PLY RATING: N/A	REPORT EXTENDING: <input checked="" type="checkbox"/> ENGINEERING <input checked="" type="checkbox"/> DATA <input checked="" type="checkbox"/> RAW DATA	MAIL REPORT TO: ROOM NO1232 BLDG 2
VEHICLE TEST WEIGHT: FRONT 2287 REAR 1365 TOTAL 3652		TIRE PRESSURE: FRONT 30 REAR 30	

- OBJECT OF TEST: Advanced Restraint System Development
- TEST PROCEDURE: C26-00
- NUMBER OF SAMPLES: 1
- NUM PER SAMPLE: 0
- ITEMS TO BE TESTED: DESCRIPTION

PART NO: 17ALPSUUPV801650      QUANTITY: ( 01 )

**"RECORD COPY"**  
Schedule No. 2-42  
Rec'd On 2017

REQUESTING DEPT NO: TAD01	WORK ORDER/WORK TASK: 100	ISSUED/COMPLETED BY: BAKO	PHONE: 8415	APPROVAL: BOLNO	TEST TYPE	RISK	SIGN-OFF DATE
---------------------------	---------------------------	---------------------------	-------------	-----------------	-----------	------	---------------

WORK STANDARD NUMBER: \_\_\_\_\_ TITLE: 2000 D186 40 mph Frontal Offset Impact

MANDATORY				OPTIONAL					
TEST ORDER #	CATEGORY	RESP. MGMT	EST. COMP. DATE	REQ	TEST ESTIMATED INTY	UNITY CODE	TEST ORDER DATE	UNSH CODE	PROG CODE
TAD016	4	TEST		X		CRAM	09-29-97		
PERFORMING ESTY. HOURS		MATERIAL COST	COMP. COST	PARTS DUE DATE	EST. START DATE	EST. COMP. DATE	STATUS	COMPLETE	
ENGINEER	0	\$	\$						
ENGINEERING	0	\$	\$						
TECHNICAL	0	\$	\$						
TOTAL	0	\$	\$						

TEST DEFINITION WORKSHEET

KURT L. EWING

30-OCT-97 09:53

TEST ORDER: TA5016

TEST PROCEDURE: CRS-00

REQUESTER COMMENTS:

TEST OBJECTIVE:

DEVELOPMENT

Advanced Restraint Air Bag & Sensor Development.  
Occupant Performance evaluation.

CUSTOM TEST SETUP:

Reference EEC Directive 96/79/EC.

Align vehicle front such that the yellow tape strips on vehicle front end is in line with the right edge of the deformable barrier face. Vehicle should be lined up such that the left front of vehicle shall be struck. Impact test vehicle into barrier @ 40 mph.

RATED FUEL CAPACITY:

16 gal.

RATED LUGGAGE LOAD:

300 lb.

*FILL w/ 2 gal stored @ GULF SITE. K Ewing 11/6/97*

OCCUPANT TYPE:

Left Front: 50th Hybrid III

~~Rgt. Front: 50th Hybrid III~~

*K Ewing 11/6/97*

RESTRAINT SYSTEM:

	SEAT BELT	HYBRID BELT	FRONTAL BAG	SIDE BAG
Left Front:	X		X	
<del>Rgt. Front:</del>	<del>X</del>		<del>X</del>	

Left Front:

X

~~Rgt. Front:~~

~~X~~

*debris*

DUMMY POSITIONING:

Reference 96/79/EC

DRIVER FOOT REST: NO

SENSOR SYSTEM:

Driver Stage 1:

Remote deploy @ 24 ms

Driver Stage 2:

~~Remote deploy @ 44 ms~~

~~Passenger Stage 1:~~

~~Remote deploy @ 35 ms~~

~~Passenger Stage 2:~~

~~Remote deploy @ 110 ms~~

*WILL AUTO DEPLOY  
DE N/A  
K Ewing 11/6/97*

SEAT POSITION:

Long.

Vert.

Seat Back Angle

TEST DEFINITION WORKSHEET

KURT L. SWINE

30-OCT-97 09:53

TEST ORDER: TAB016

TEST PROCEDURE: CR8-00

Left Front: Mech. Mid Full Down 26.3 (From Trim)  
 Rgt. Front: Mech. Mid Full Down 26.3 (From Trim)

SEAT PACKAGE CHECK REQUIRED? Yes. Mark rocker target for dummy positioning @ barrier.

DIMENSIONAL ANALYSIS: 106 138 180 160 506 642  
 132 140 153 166 640 647  
 136 142 155 172 641

*K. Swine 11/6/97*

FILM ANALYSIS: Left and Right dummy head WRT rocker  
 Left & right rocker WRT ground.

STILL PHOTO: Std. Pre & Post Test Photographs

HIGH SPEED PHOTO:

1.	<del>Onboard</del>	Over-shoulder	<del>Left</del> <del>DELETE</del>	} LEFT DUMMY COORDINATE ONLY
2.	Onboard	Over Shoulder	<del>Right</del> <del>(Left Dummy)</del>	
3.	Onboard	D-Ring	Left	
4.	<del>Onboard</del>	<del>D-Ring</del>	<del>Right</del> <del>DELETE</del>	
5.	Onboard	Retractor	Left	
6.	<del>Onboard</del>	<del>Retractor</del>	<del>Right</del> <del>DELETE</del>	
7.	Off-board	Overall	Left	} <i>K Swine 11/4/97</i>
8.	Off-board	Overall	Right	
9.	Off-board	Overall	Overhead	} <u>UNDERWEAR FROM FLOOR (FIBROPTIC)</u>
10.	Off-board	B-Pillar Forward	Left (Need Dummy Kinematics)	
11.	Off-board	B-Pillar Forward	Right (Need Dummy Kinematics) N/A	
12.	Off-board	A-Pillar Forward	Overhead	
13.	<del>ONBOARD</del>	SP. COLUMN / ALL POLES		
	Total On-board Cameras		4 (1 inoperative)	
	Total Off-board Cameras		6	
	Total Cameras		10	
	Number of Film Copies		1	
	Digitized Film: B-Pillar Forward		Left	
	B-Pillar Forward		Right	

*K Swine 11/6/97*

TEST DEFINITION WORKSHEET

KURT L. EWING

20-OCT-97 09:53

TEST ORDER: TAB016

TEST PROCEDURE: CR8-00

SPECIAL BUILD INSTRUCTIONS

1. Using 1/4" yellow tape, mark vehicle front end to identify impact zones as described in EEC directive 96/79/EC.
2. Update following components:
  - a. Convert to 3L 2V engine package.
  - a. Steering wheel/air bag module.
  - ~~b. Passenger front air bag~~ *N/A K Ewing 11/6/97*
  - c. Left & Right Front Seat Belt Assemblies.
  - d. Air Bag Sensors
  - e. Floorpan Modifications to accept RHD air bag sensor.
  - f. 3L 2V Roll restrictor
  - g. Adjustable brake & throttle pedals.
  - h. Instrument Panel.
  - i. 3L 2V Fuel Rail
  - j. 3L 2V Fuel Line Assy.
3. Rear spring supports are acceptable if required to achieve ride heights.

WRIGHT UP INSTRUCTIONS:

Curb Weight: Front=2131 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

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

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

*MAY  
 ADD WATER  
 BOTTLE TO  
 RGT. FRONT  
 AXLE. LOW  
 IF POSSIBLE  
 TO MAKE TEST  
 WGT. K Ewing  
 11/6/97*

RISE HEIGHTS

1. Weight vehicle to test weight.
2. Level rocker WRT ground.

CONTACTS: NAME PHONE FAX

TEST DEFINITION WORKSHEET

KURT L. SWING

30-OCT-97 09:53

TEST ORDER: YAS016

TEST PROCEDURE: CRG-00

Requestor:	K. Swing	24-86185	KENI (313-660-6991)
Hld. Coord:	W. Dandel	24-85498	MDEN (313-705-8101)
Supervisor:	M. Jurasek	32-29958	MJUR (313-705-5990)
GTO:	<del>S. Ringham</del>	<del>32-00000</del>	<del>SRER (313-700-3000)</del>

K. Swing 10/31/97

28/0(
TEST ENGINEERS COMMENTS:

LAB COMMENTS:

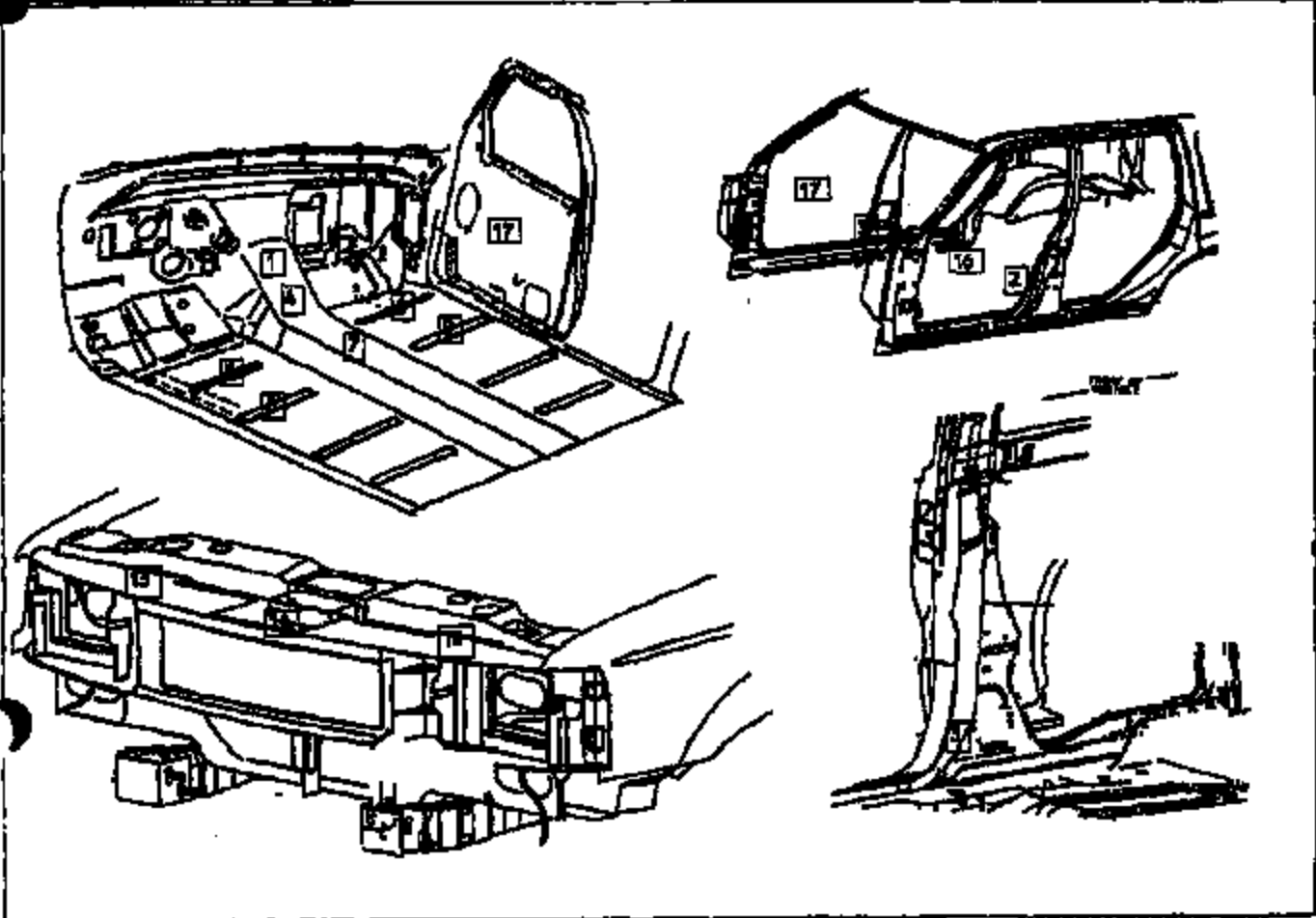
FINAL COMMENTS:

REQUESTERS FINAL COMMENTS:

Program: D188  
 Vehicle ID: DC0418  
 Build level: AP  
 Test Mode: 40mph/40%offset

### SENSOR MAP

Engineer: Mike Amin  
 Phone #: 24-81802  
 Date: 10/28/97  
 Time: 1:38 PM



Location Name		Supplier	Output	Nominal (+/-)	Max/Min	Serial #	
1	DIFF FLOOR PAN @ LHD	ACD1	RCMby	Pa. Pres.	0	28004	563-2
		ACD2		Dr. Bag	0		802137
		ACD3		Pa. Bag	0		
		ACD4		Dr. S. Ba	0		
		ACD5		Pa. S. Ba	0		
		ACD6		Dr. Pres.	0		
		ACD7		Safing			
		ACD8		Stab	5		
1	C/F FLOOR PAN @ LHD ACD	388	accel	TRIAK	On WGRCH		
2	L/R-REAR WHEEL @ R/L	388	accel	TRIAK			
3	R/R-REAR WHEEL @ R/L	388	accel	TRIAK			
4	DIFF FLOOR PAN @ RHD	ACD1	RCMby	Pa. Pres.	0	28004	579-4
		ACD2		Dr. Bag	0		802137
		ACD3		Pa. Bag	0		
		ACD4		Dr. S. Ba	0		
		ACD5		Pa. S. Ba	0		
		ACD6		Dr. Pres.	0		

Location Name	Supplier	Output	Sensor Channels only		
			Nominal (+/-)	Max/Min	Serial #
	ACD7	Rolling			
	ACD8	Status	5		
A - C/F Floor Pan @ WTS FCS	_SH	TRIAX	On BCM		
-5 L/F Floor Pan @ D1 Wheel Case	_SH	TRIAX	Near SCB		
-6 R/F Floor Pan @ D1 Wheel Case	_SH	TRIAX	Near SCB		
-5 L/F Floor Pan @ D2 Wheel Case	_ACD	None	SCS Sensor		000
-6 R/F Floor Pan @ D2 Wheel Case	_ACD	None	SCS Sensor		000
-7 C/F Floor Pan @ TUNNEL	_SH	TRIAX			
-8 R/F Floor Pan @ D2 Wheel Case	_SH	TRIAX			
-9 R/F Floor Pan @ D2 Wheel Case	_SH	TRIAX			
-10 C/RND	_ACD	None	FCB		100387e
-10 C/RND	_SH	TRIAX	Next to FCB		(chann. B)
-13 R/RND	_ACD	None	FCB		100397b
-13 R/RND	_SH	TRIAX	Next to FCB		(chann. C)
-16 L/F FOOT B	_SH	TRIAX			
-17 R/F FOOT B	_SH	TRIAX			
-18 L/RND UP	_SH	None	FCB		100397d
-18 L/RND UP	_SH	TRIAX	Next to FCB		(chann. A)

0000 box = 070007A

Notes: All ACD supplier parts require 12V supply

DUMMY MEASUREMENT REPORT  
CRASH BARRIER

TEST NUMBER 10921  
TEST ORDER NUMBER TAS016

DUMMY POSITION LEFT  
DUMMY ABBREV 50H3

FRONT

ABSOLUTE MEASUREMENTS (INCH)	MEASUREMENT
LEG (HYB II) / KNEE (HYB III) TO INST PANEL LEFT	4.60
LEG (HYB II) / KNEE (HYB III) TO INST PANEL RIGHT	5.00
ROCKER TARGETS TO GROUND FRONT	7.60
ROCKER TARGETS TO GROUND REAR	6.80
NOSE TO STEERING WHEEL	14.60
NOSE TO INSTRUMENT PANEL	
INSTRUMENT PANEL TO TORSO	
STEERING WHEEL TO TORSO	6.80
STEERING WHEEL TOP LEGS	14.60
KNEE SPREAD OS-OS (HYB II) / CL-CL (HYB III)	7.60
SEAT BACK ANGLE	26.70
PELVIC ANGLE	22.00
HEAD ANGLE	0.20
ROCKER ANGLE	0.10
NECK BRACKET ANGLE	
BUMPER TARGET TO GROUND	

RELATIVE MEASUREMENTS (INCH)	WRT FRT RKR TGT
HEAD LAT	13.80
HEAD VERT	37.40
HEAD LONG	16.00

SHOULDER LAT  
SHOULDER VERT  
SHOULDER LONG

H-POINT LAT	10.30
H-POINT VERT	11.50
H-POINT LONG	11.10

O/S KNEE BOLT LAT	11.60
O/S KNEE BOLT VERT	16.00
O/S KNEE BOLT LONG	-4.10





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 Schedule No. 7-7-12  
 Retain Until 2018

**FINAL TEST REPORT**

**CONFIDENTIAL**

**Global Test Operations  
 Advanced Vehicle Technology**

**TO:** J. Boland

**Test Order No.** T-B0871  
**Work Task W. O. No.** F09  
**Test Date** 8/14/98  
**Date Reported** 11/11/98  
**Sheet** 1 of 57

**SUBJECT:** Crash Test 11191 (90° Front 40% Offset Left Side Barrier Impact at 10.9 ± 0.4 mph, 17.5 ± 0.6 km/h) - 2000 Taurus (D188) 4-Door Sedan.

**REQUESTED BY:** Vehicle Safety and CAE Department, Advanced Vehicle Technology - K. Hwing

**OBJECT:** To obtain development data relative to air bag system sensors.

**SUMMARY OF TEST RESULTS:** See Section 1.0 for air bag system sensor data.

  
 R. Oda  
 Engineering Data Control Analysis

  
 Concur: R. Burns  
 Section Supervisor  
 Operations Engineering Section  
 11/11/1998

**VEHICLE DATA:**

<b>Make and Model</b>	2000 Taurus (D188) 4-Door Sedan	
<b>ID Numbers</b>	1FALP63U1YE100588, 579-W-865	
<b>Power Train</b>	3.0L, EFI, Automatic Transaxle	
<b>Fuel Tank(s)</b>	Test Condition: Empty	
<b>Front Seat(s)</b>	Type: Bucket Cover: Cloth Tracks/Position: Manual/Mechanical Mid Seat Backs/Position: Adjustable/Not Measured Head Restraints/Position: Adjustable/Down	
<b>Restraint System</b>	LF & RF: 3-Point Continuous Loop Active Belt	
<b>Occupants</b>	LF & RF: Water-Filled Containers (Simulating 50th Percentile Male, Hybrid II, Uninstrumented Dummies)	
<b>Test Weight</b>	Front: 2808 lb (1046 kg) Rear: 2001 lb (908 kg) Total: 4807 lb (1954 kg)	
<b>Tires</b>	Front: P215/60R16 Rear: P215/60R16 Spare: Removed	30 psi (207 kPa) 30 psi (207 kPa)
<b>Significant Content or Accessories:</b>	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, T867-ST-14 dated July 17, 1996.

**1.1 Vehicle Alignment**

The Thachem fixture was attached to the normal fixed barrier face and aligned to contact 40% of the front of the test vehicle left of its longitudinal centerline to the left (driver) side.

**2. Remarks**

Crash movies, pre- and post- crash still images of the test vehicle and copies of this report are available through the Operations Engineering Section, Safety Laboratories Department, GTO. The crash still images are stored and archived on CD ROMs. The file names of the still images are listed under crash number and a three digit sequence number which are 11191001 through 11191042.

**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 vehicle dynamic displacements obtained from Film Analysis are included in this report.

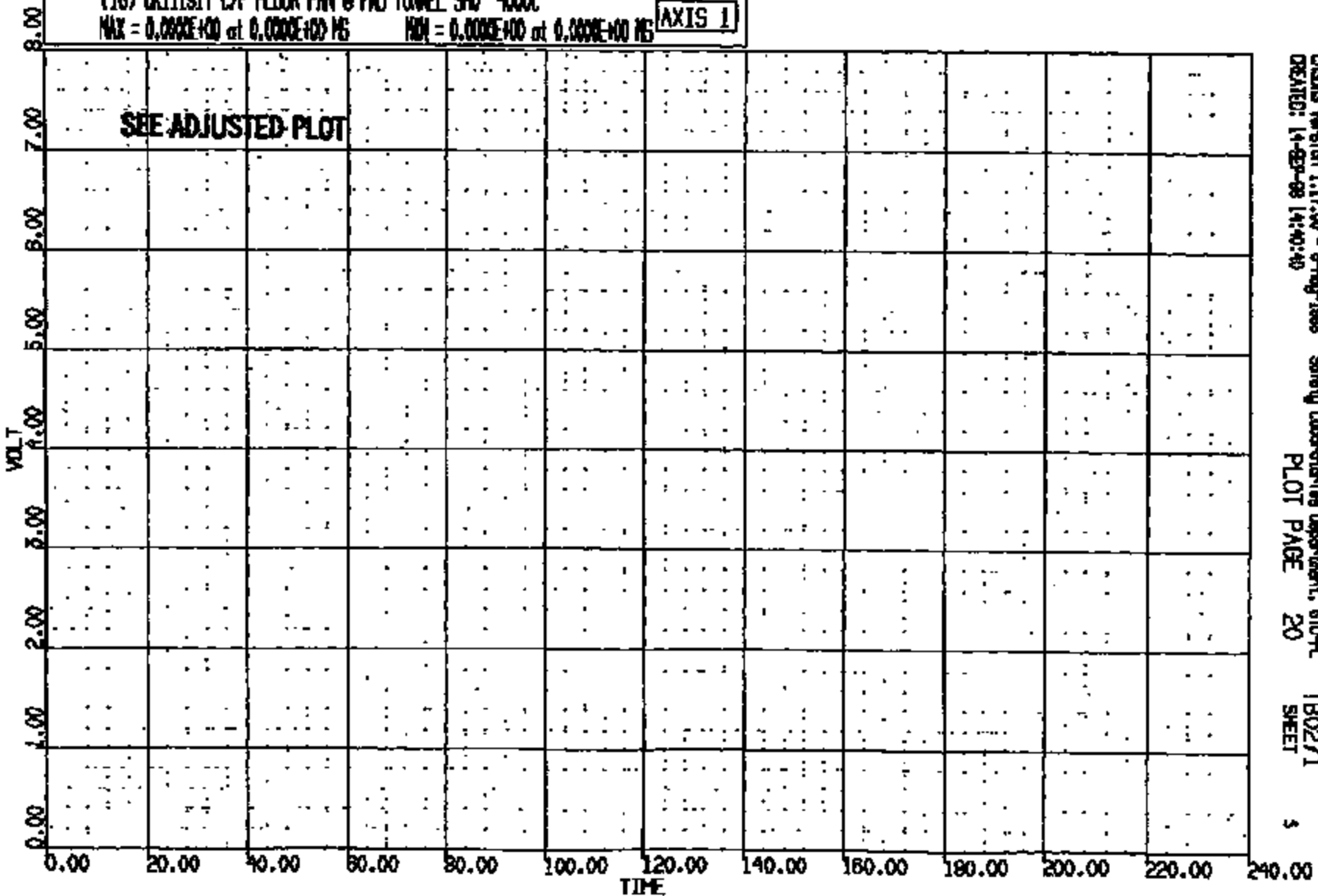
Time histories of any requested derived data (i.e. integrations, etc.) were given to the requesting activity and are not included in this report.

CR R: 11191 TO: TB0271 DATE: 980914 14:25:41  
2000 D-198

(16) CR11191T C/F FLOOR PAN @ FWD TUNNEL SHD 4000C  
MAX = 0.0000E+00 at 0.0000E+00 MS MIN = 0.0000E+00 at 0.0000E+00 MS

AXIS 1

SEE ADJUSTED PLOT



CREMS Version 1.17.00 - 9-May-1999  
CREATED: 14-SEP-98 14:40:40

Safety Laboratories Department, 610-PL  
PLOT PAGE 20

TB0271  
SHEET

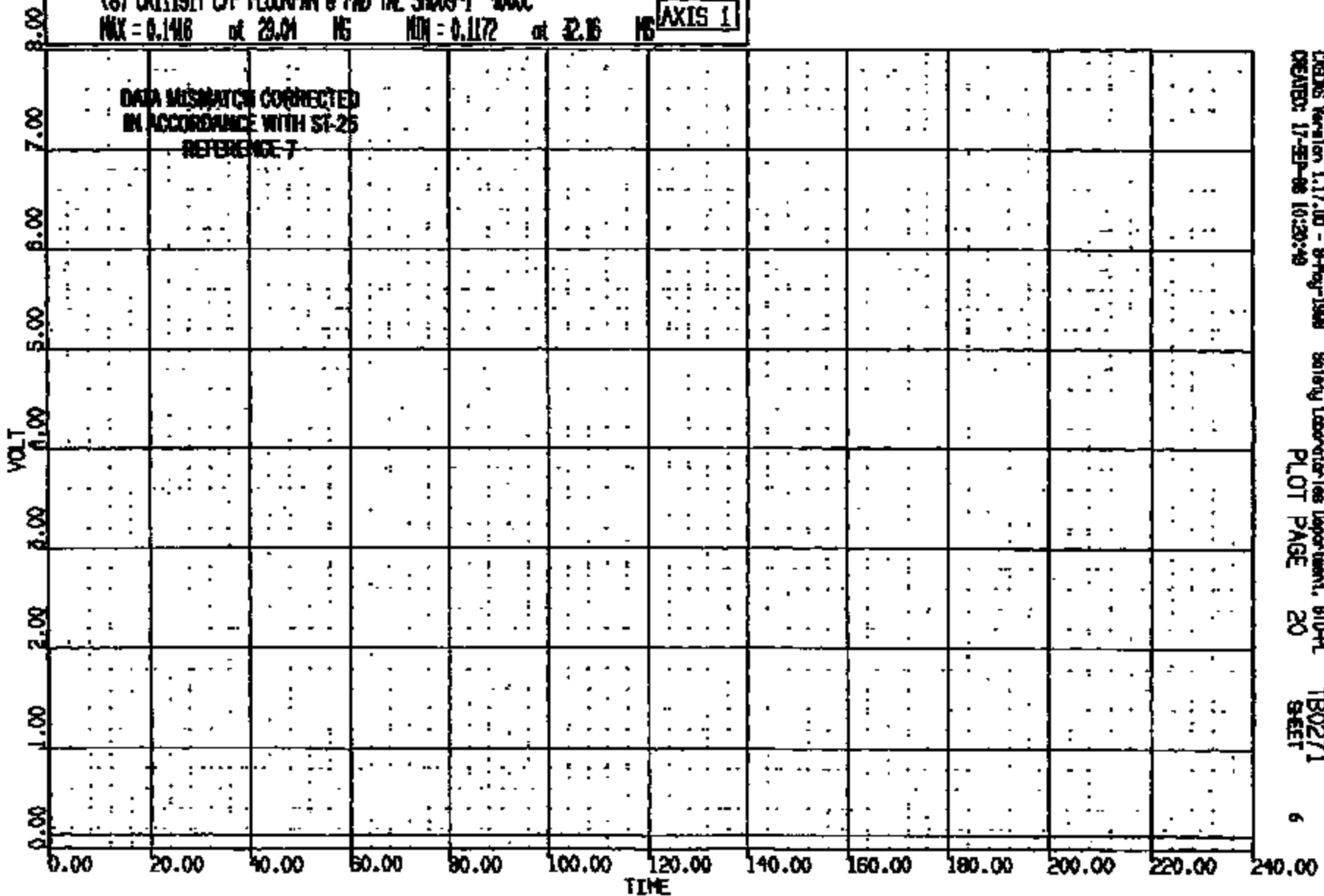
5

CRTS 0011191

CR R: 11191 TO: TB0271 DATE: 980914 14:25:41  
2000 D-188

(8) DRILLBIT C/F FLOORPAN @ FWD TML SH009-1 4000C  
MAX = 0.1418 at 29.01 MS MIN = 0.1172 at 32.16 MS **AXIS 1**

DATA MISMATCH CORRECTED  
IN ACCORDANCE WITH ST-25  
REFERENCE 7



CR06 Version 1.17.00 - 8-May-1998  
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Safety Laboratories Department, BMD-PL  
PLOT PAGE 20  
TB0271  
SHEET

6

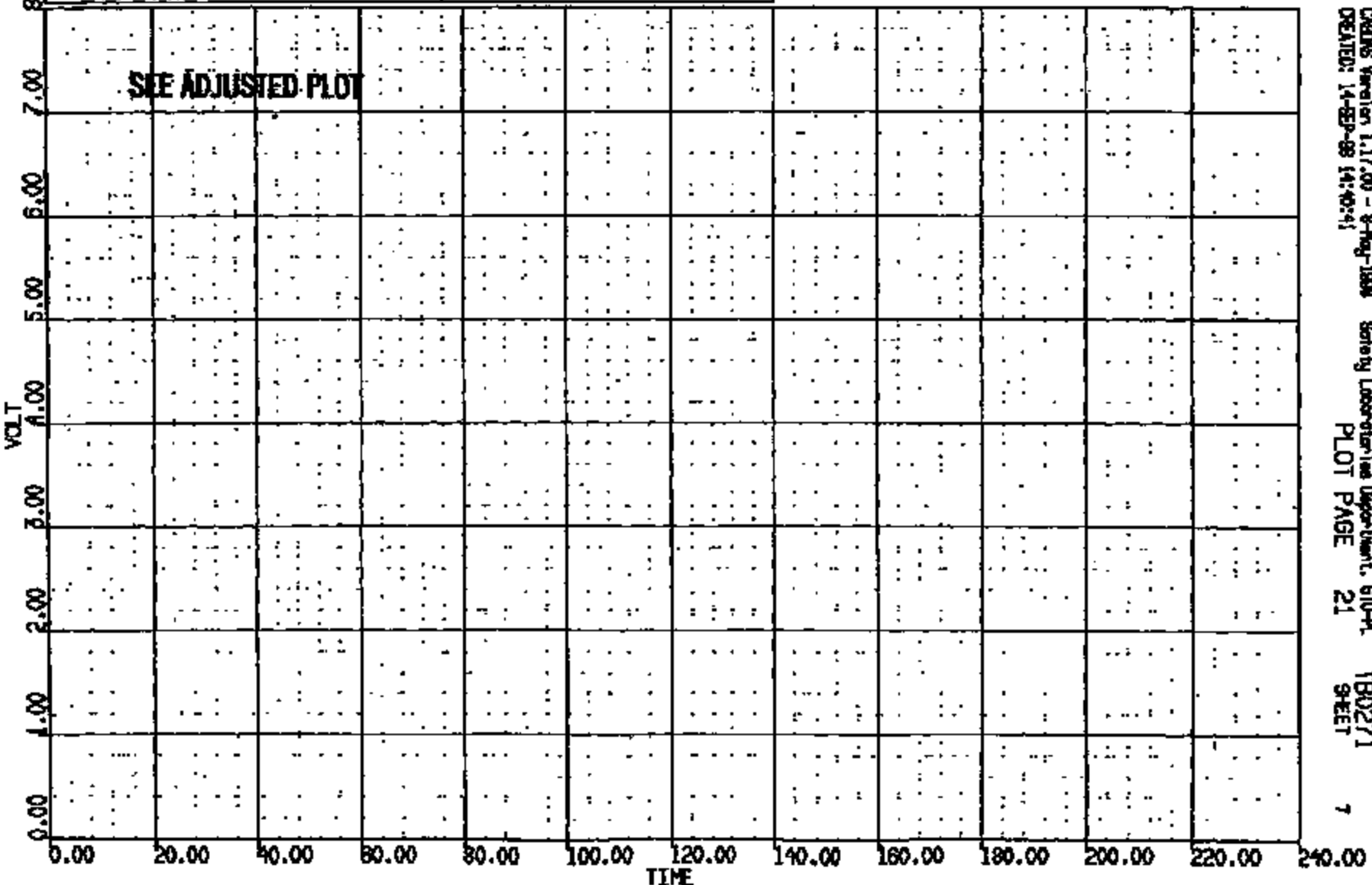
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CR R: 11191 TO: T80271 DATE: 880914 14:23:41  
3000 D-188

(16) CRT1191T C/F FLOOR PAN @ FWD TUNNEL SPD 4000C  
MAX = 0.000E+00 at 0.000E+00 MS MIN = 0.000E+00 at 0.000E+00 MS

AXIS 1

SEE ADJUSTED PLOT



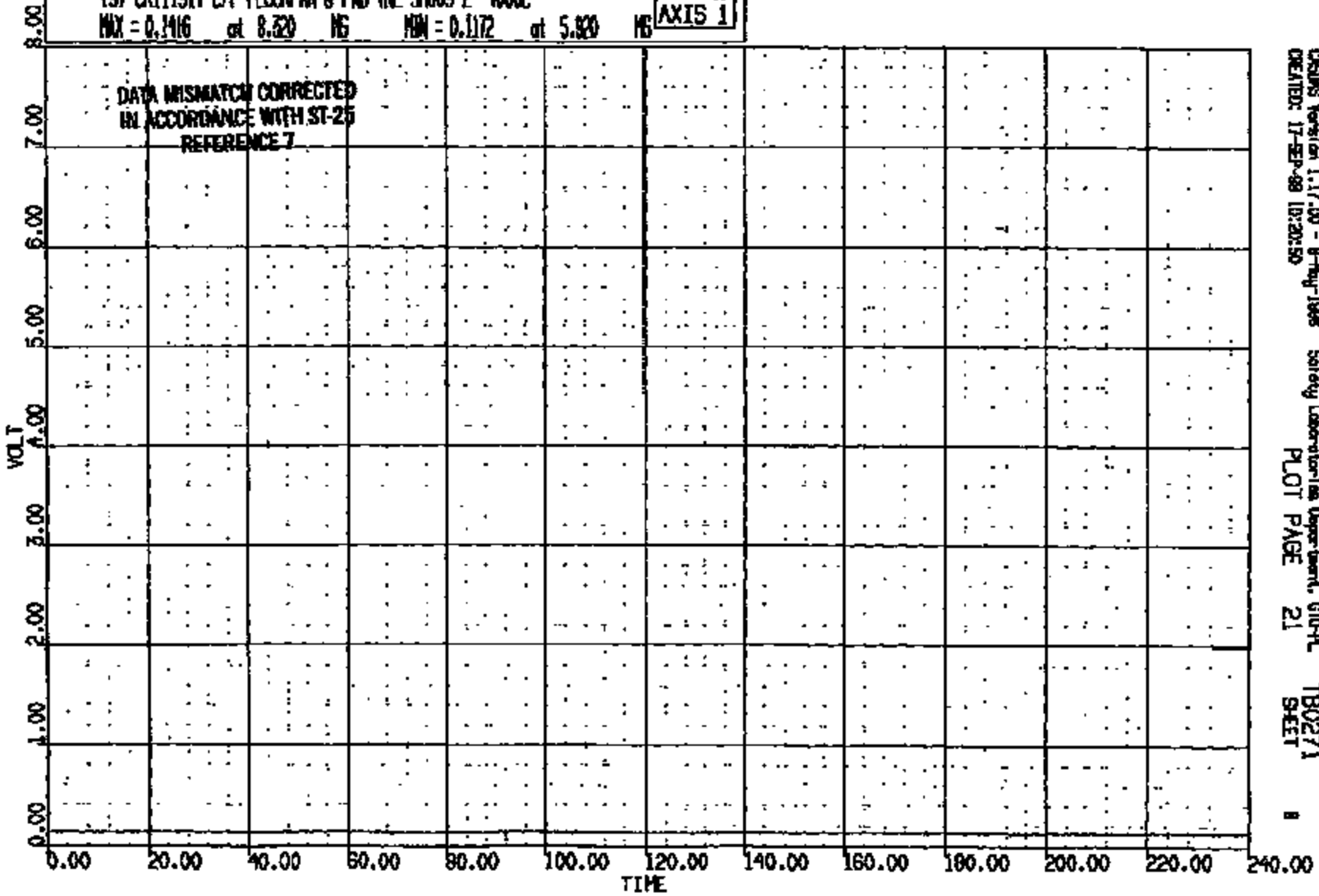
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CREATED: 14-SEP-88 14:40:41 PLOT PAGE 21 T80271  
SHEET 7

CRTS 0011191

CR R: 11191 TO: TB0271 DATE: 080917 14:28:41  
2000 D-188

(9) CR11191T C/F FLOORPAN @ FWD INL 9009-2 4000C  
MAX = 0.3416 at 8.320 MS MIN = 0.1172 at 5.820 MS **AXIS 1**

DATA MISMATCH CORRECTED  
IN ACCORDANCE WITH ST-25  
REFERENCE 7



CRSIS Version 1.17.00 - 8-Aug-1998 Safety Laboratory Department, G10-PL  
CREATED: 17-SEP-98 10:20:50 PLOT PAGE 21 TB0271  
SHEET 1

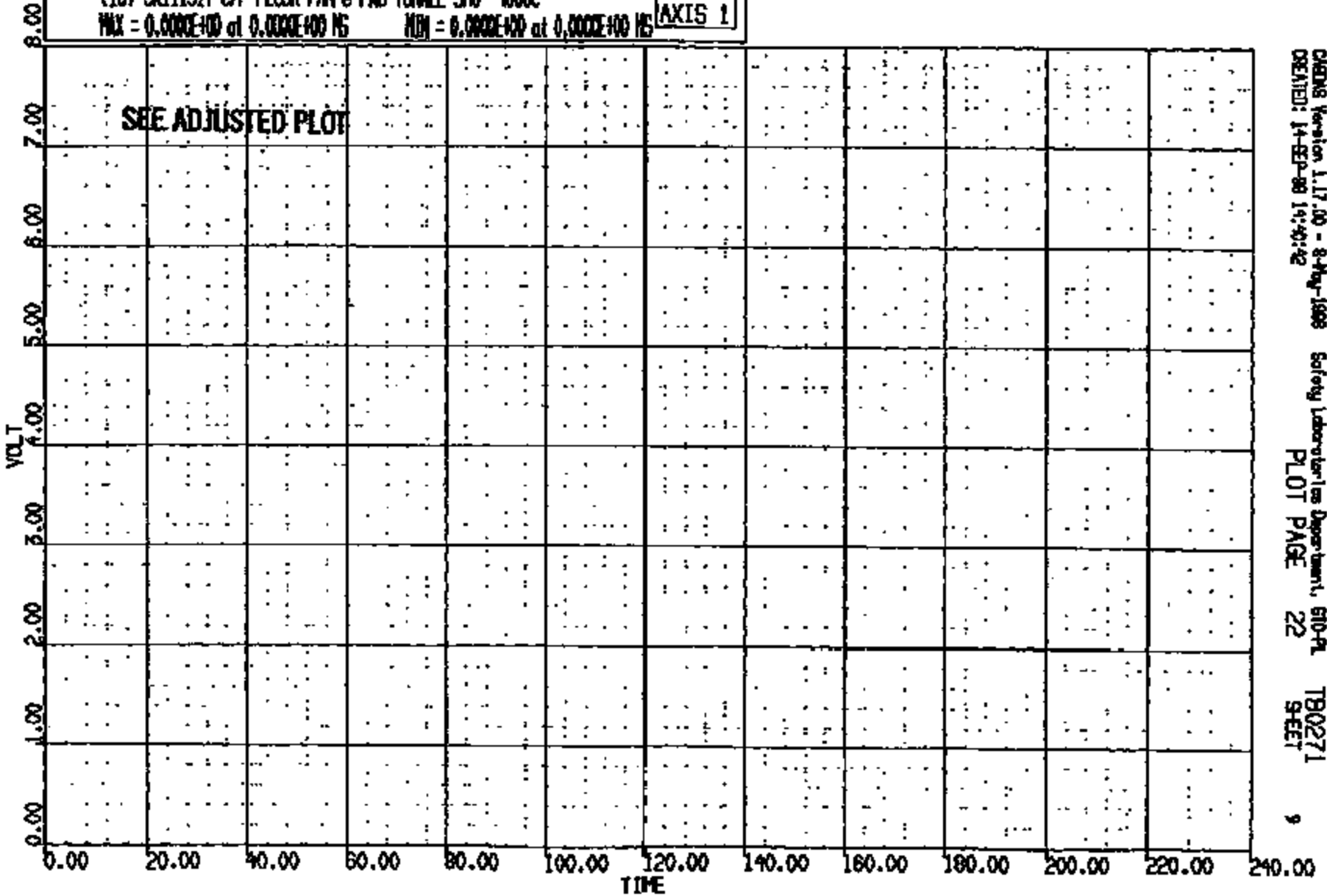
CRIS 0011191



CR R: 11191 TO: TB0271 DATE: 080914 14:23:41  
2000 0-188

(16) CR11191T C/F FLOOR PAN @ FWD TUNNEL SHO 4000C  
MAX = 0.000E+00 at 0.000E+00 MS MIN = 0.000E+00 at 0.000E+00 MS

AXIS 1



CRAMS Version 1.17.00 - 8-Aug-1998  
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Safety Laboratory/Ins Department, 610-PL  
PLOT PAGE 22

TB0271  
SHEET

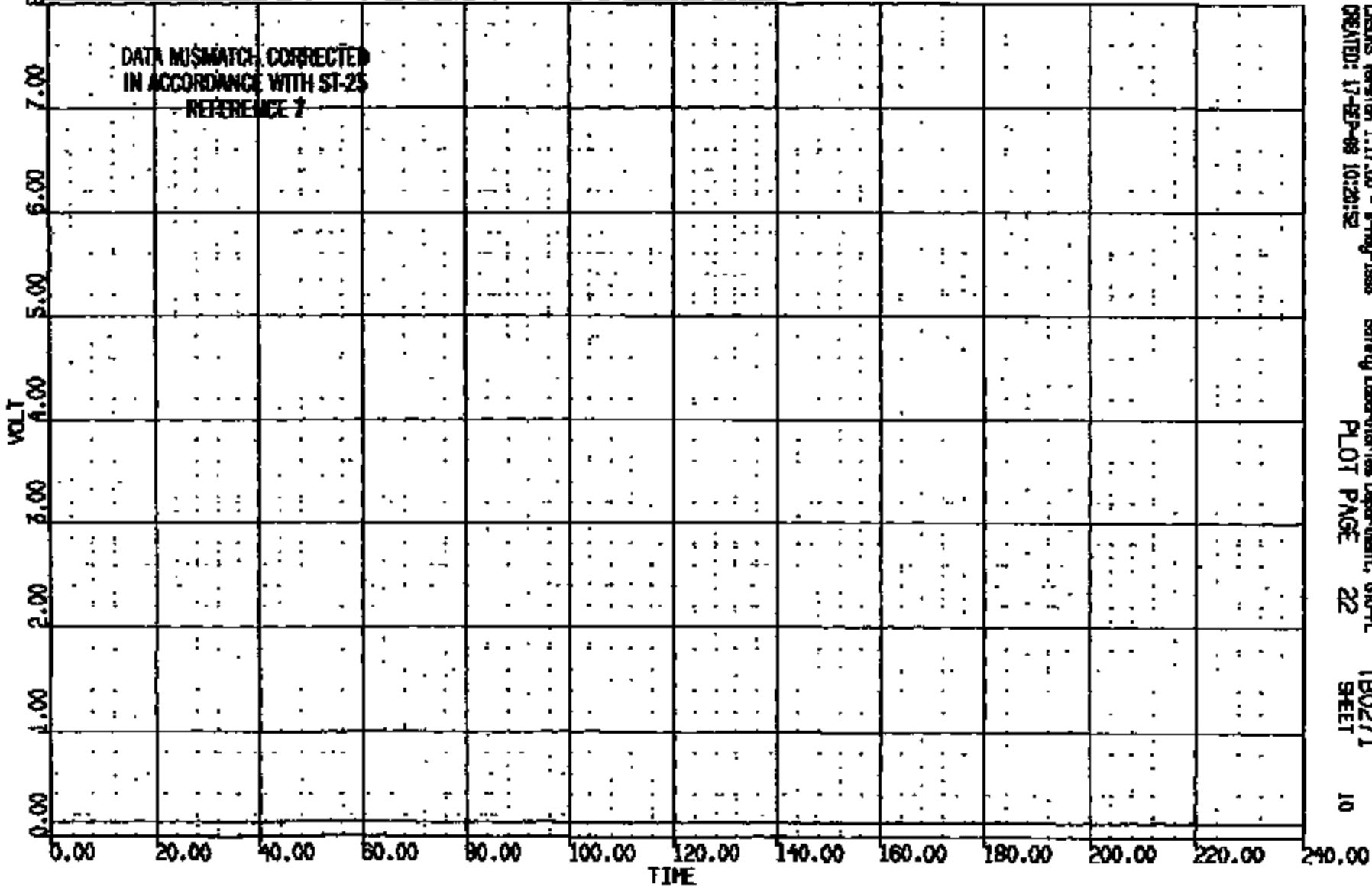
CRIS 0011191

CR R: 11191 TO: TB0271 DATE: 880914 14:23:41  
2000 D-188

(10) CR11917 C/F FLOORPAN @ FWD WL 94000-3 4000C  
MAX = 0.1416 at 2.400 MS MIN = 0.1172 at 0.000E+00 MS

AXIS 1

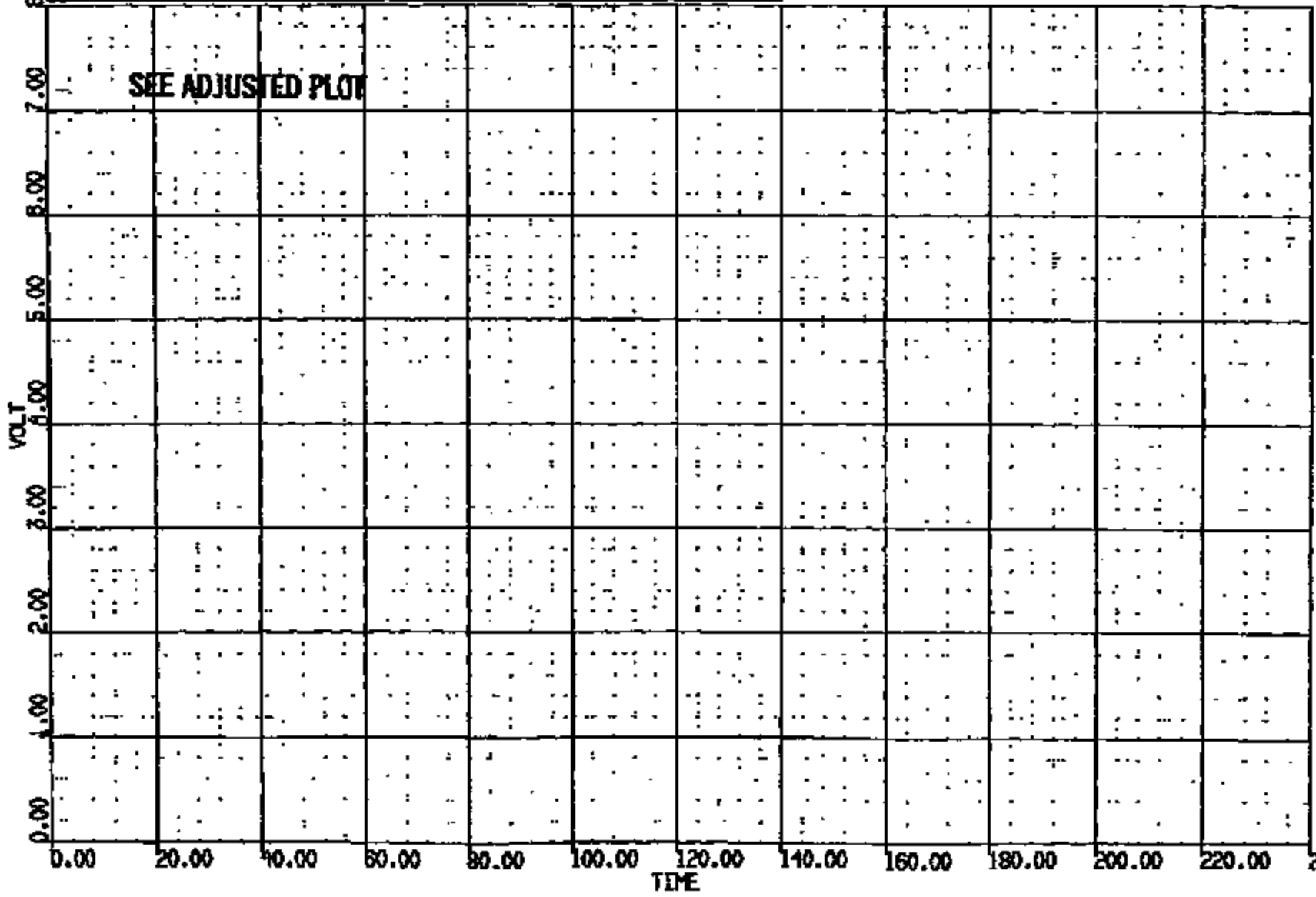
DATA MISMATCH CORRECTED  
IN ACCORDANCE WITH ST-25  
REFERENCE 7



CR R: 11191 TO: TB0271 DATE: 980914 14:25:41  
2000 D-168

(16) CR11191T C/F FLOOR P/W @ FWD TUNNEL S/W 4000C  
MAX = 0.0000E+00 at 0.0000E+00 MS MIN = 0.0000E+00 at 0.0000E+00 MS

AXIS 1

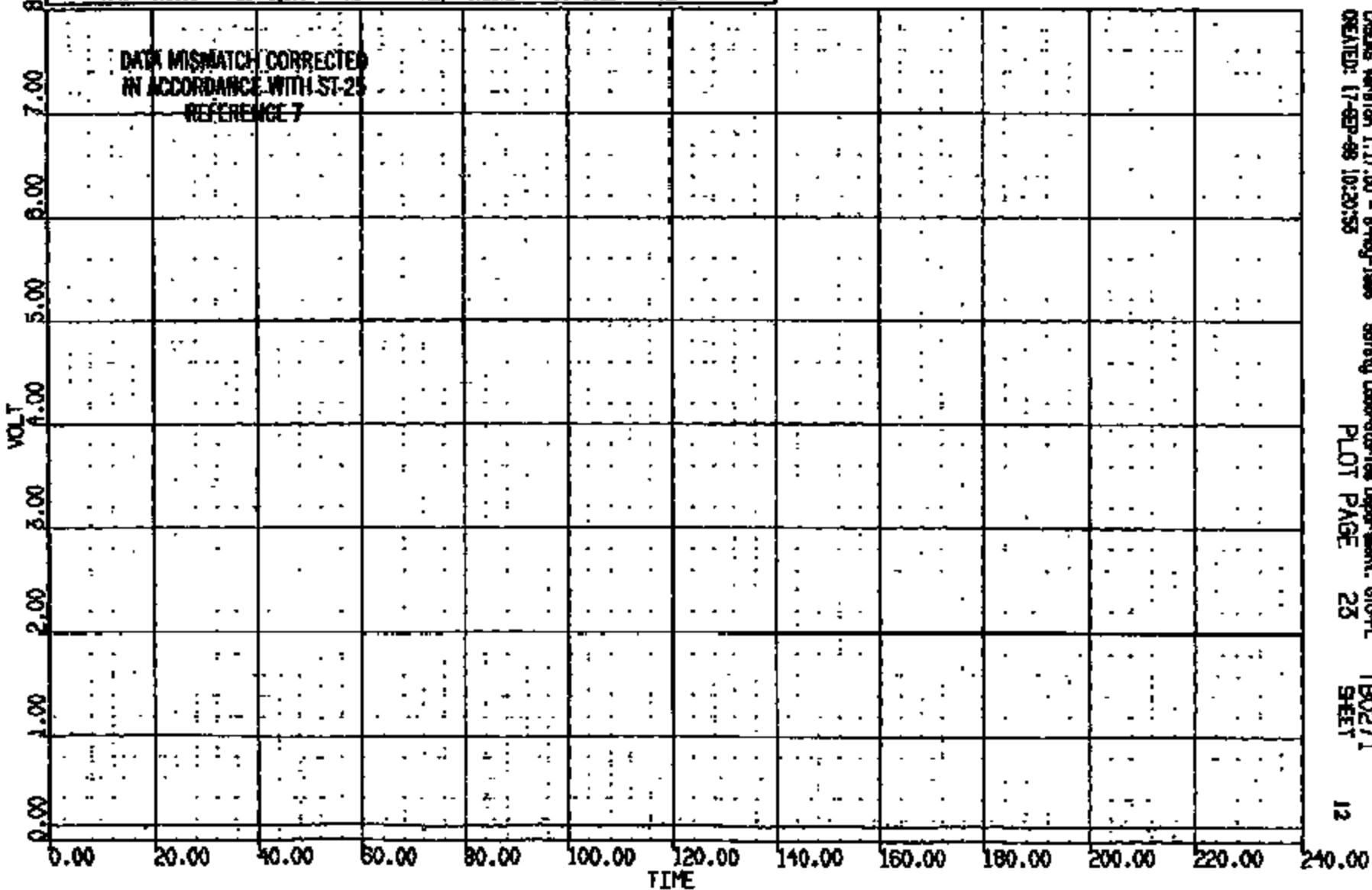


CRS Version 1.17.00 - 8-May-1998 Safety Laboratory Department, ORO-PL TB0271  
CREATED: 14-SEP-98 14:40:45 PLOT PAGE 25 SHEET 11

CRIS 0011191

CR R: 11191 TO: TB0271 DATE: 980914 14:23:41  
2000 D-198

(11) CRIT1911 C/F FLOOR/PAV @ FND TML 5M009-1 4000C  
MAX = 0.1611 at 118.5 MS MIN = 0.2172 at 18.29 MS **AXIS 1**



CRS05 Version 1.17.00 - 8-Aug-1998  
CREATED: 17-SEP-99 10:20:53

Safety Laboratories Department, G10-PL  
PLOT PAGE 25

TB0271  
SHEET

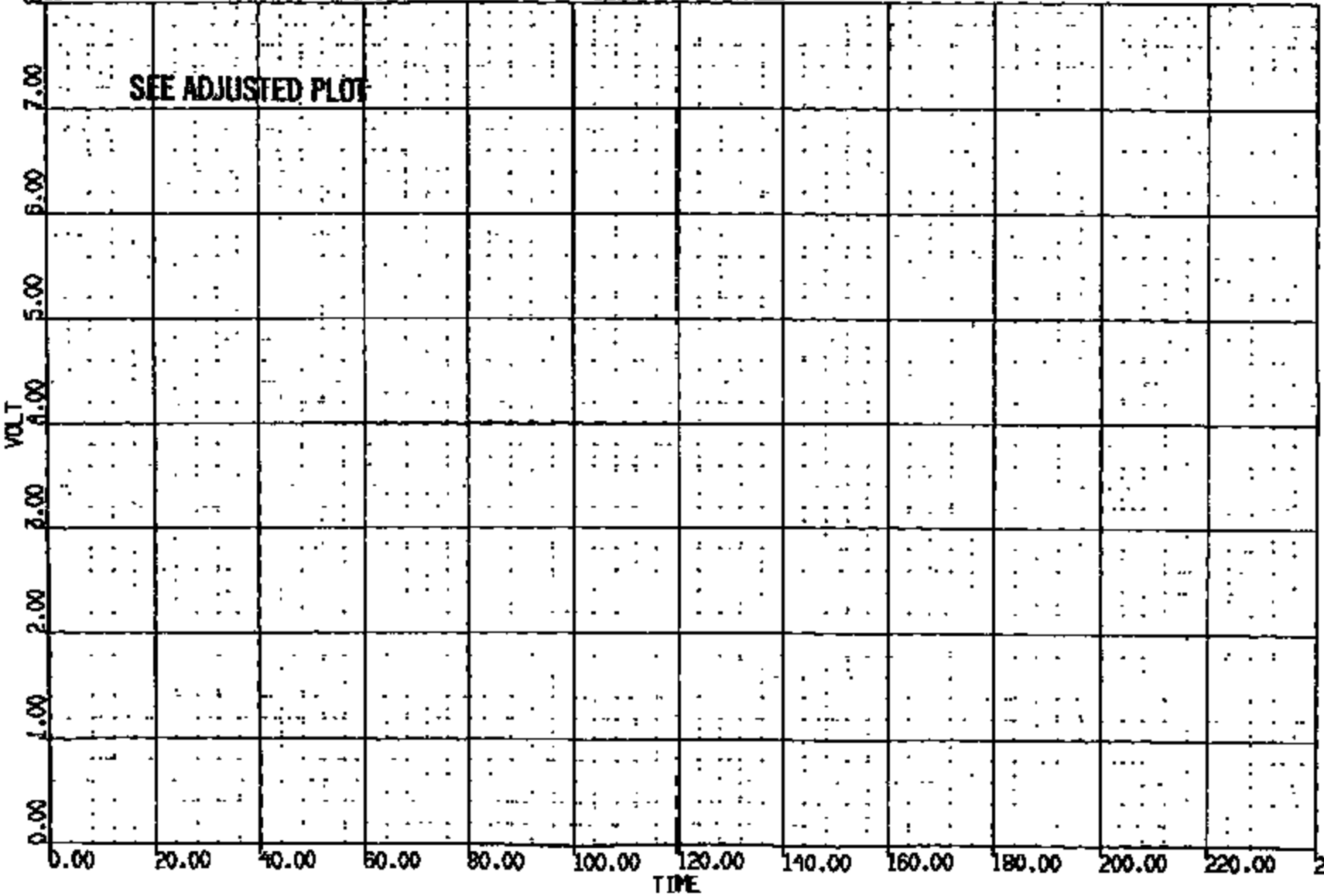
12

CRTS 0011191

CR R: 11191 TO: TB0271 DATE: 880914 14:23:41  
2000 D-188

(16) CR11917 C/F FLOOR P/W @ FWD TUNNEL SPD \*NOXXC  
MAX = 0.000E+00 at 0.000E+00 MS MIN = 0.000E+00 at 0.000E+00 MS

AXIS 1



CRS16 Version 1.17.00 - 8-May-1988 Safety Laboratories Department, SLO-PL  
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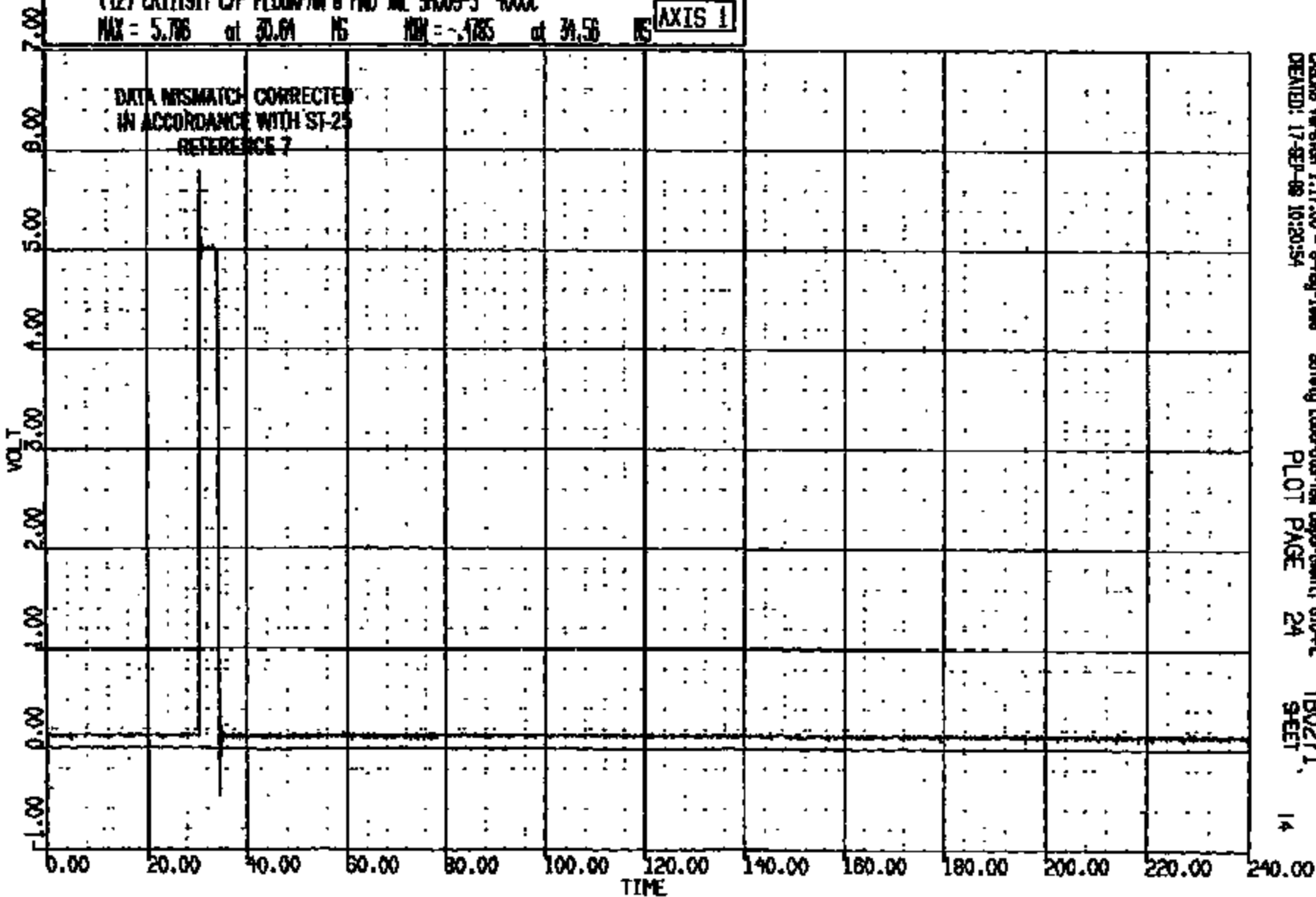
CRTS 0011191

CR R: 11191 TO: TB0271 DATE: 880914 14:28:41  
2000 D-188

(12) CR1191T C/F FLOORPAIN @ FND WIL 91009-5 4000C

MAX = 5.786 at 30.64 NS MIN = -.4785 at 39.56 NS

AXIS 1



CASUS Version 1.17.00 - 8-May-1988  
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Safety Laboratory, Los Alamos, NM  
PLOT PAGE 24

TB0271  
SHEET

14

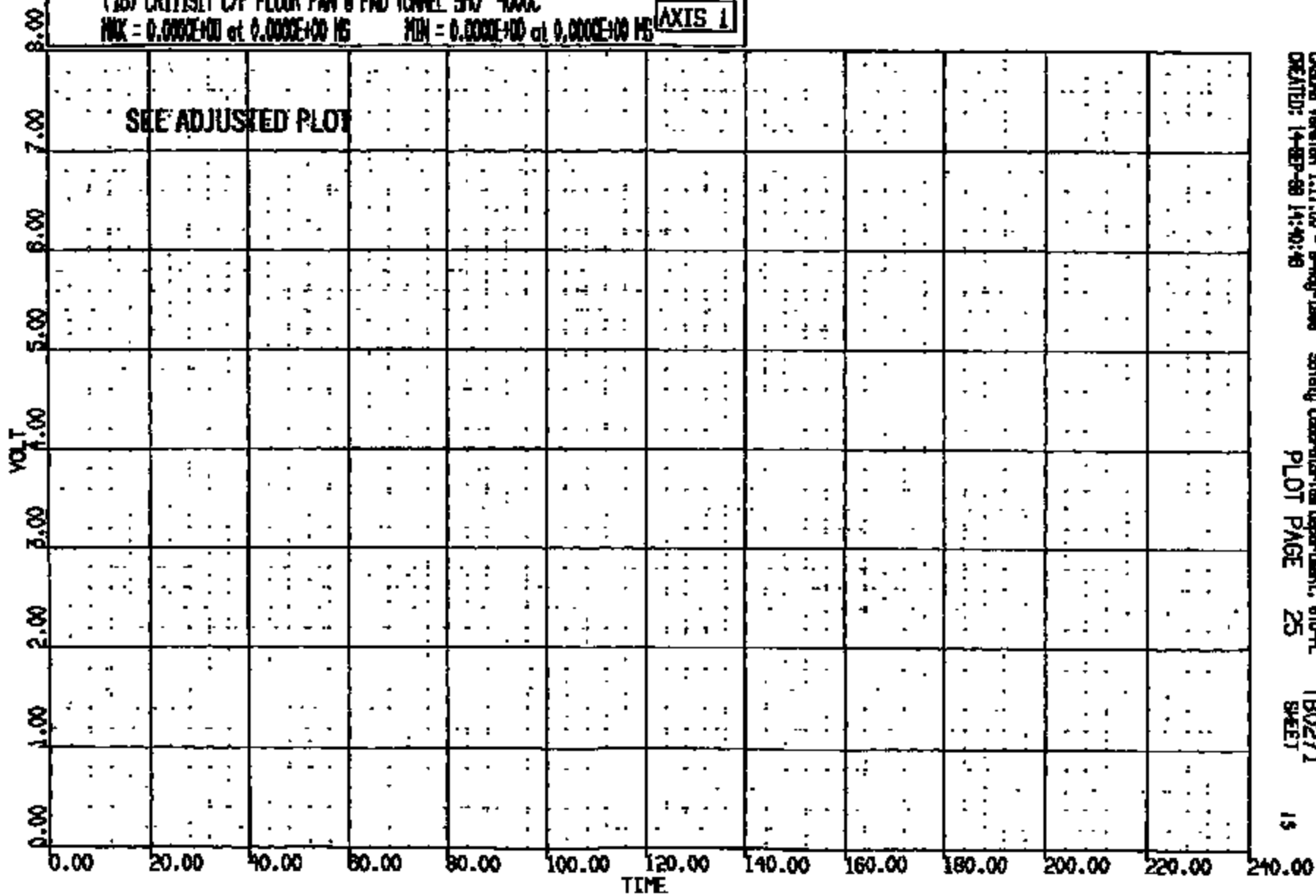
CRTS 0011191

CR R: 11191 TO: TB0271 DATE: 880914 14:25:41  
2000 D-198

(16) CRISISLT C/F FLOOR PAN @ FWD TUNNEL SMO 4000C  
MAX = 0.000E+00 at 0.000E+00 MS MIN = 0.000E+00 at 0.000E+00 MS

AXIS 1

SEE ADJUSTED PLOT



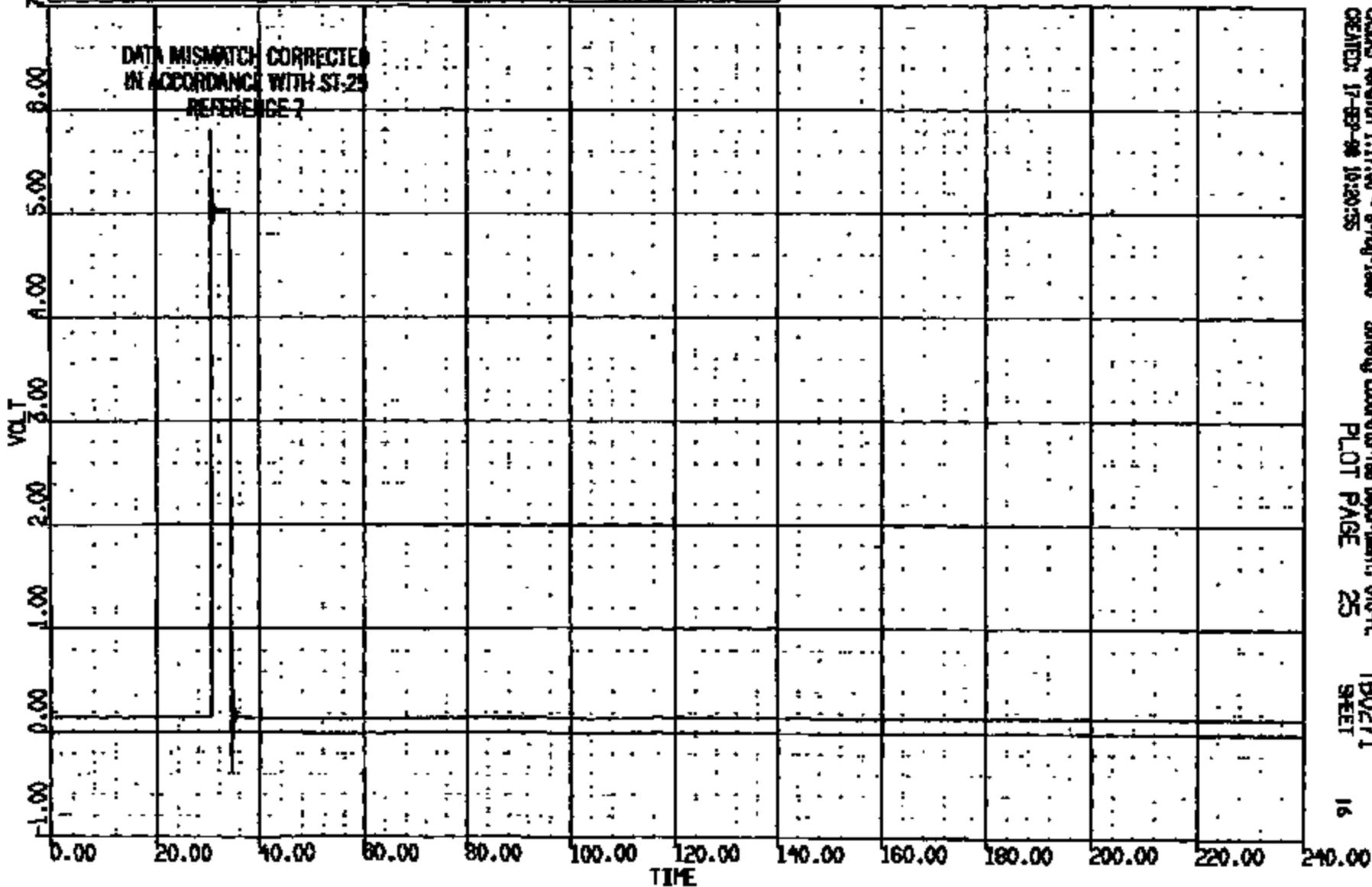
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CREATED: 14-SEP-88 14:40:48 PLOT PAGE 25 SHEET 15

CRIS 0011191

CR #: 11191 TO: TB0271 DATE: 880814 14:25:41  
2000 D-186

(13) CR1191T C/F FLOORPAN @ FWD TAIL SH009-6 400C  
MAX = 5.771 at 30.04 NS MIN = -.3857 at 34.04 NS

AXIS 1



CASYS Version 1.17.00 - 8-May-1988 Safety Laboratory Department, 610-FL  
CREATED: 17-SEP-88 18:28:55 PLOT PAGE 25 TB0271  
SHEET

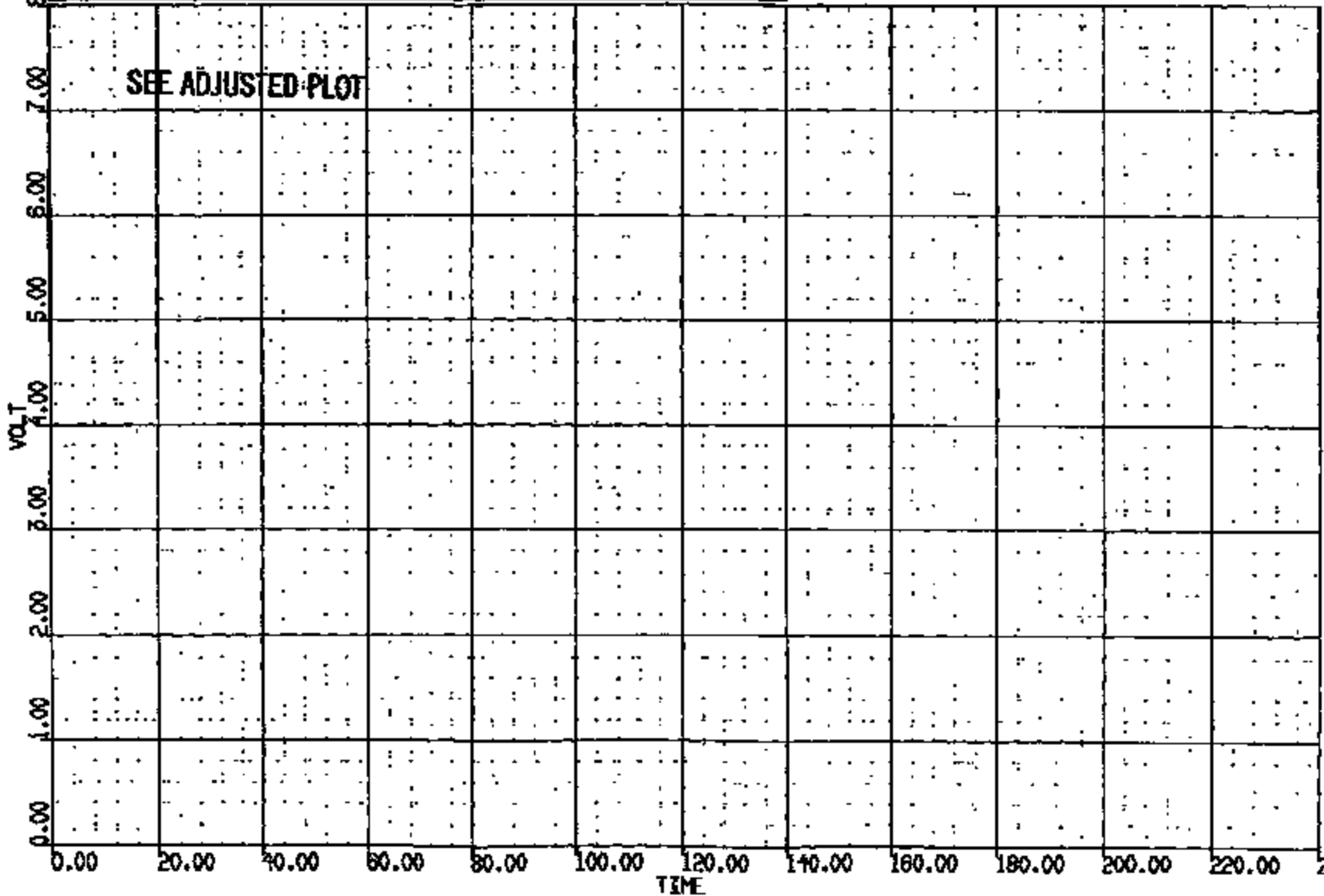
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CR R: 11191 TC: TB0271 DATE: 980914 14:25:41  
2000 D-188

(16) CR1191T C/F FLOOR PAN @ FWD TUNEL SHD 4000C  
MAX = 0.0000E+00 at 0.0000E+00 MS MIN = 0.0000E+00 at 0.0000E+00 MS

AXIS 1



CRS Version 1.17.00 - 8-Aug-1998 Safety Laboratories Department, DTIC-PL  
CREATED: 14-SEP-98 14:40:47 PLOT PAGE 26 SHEET 17

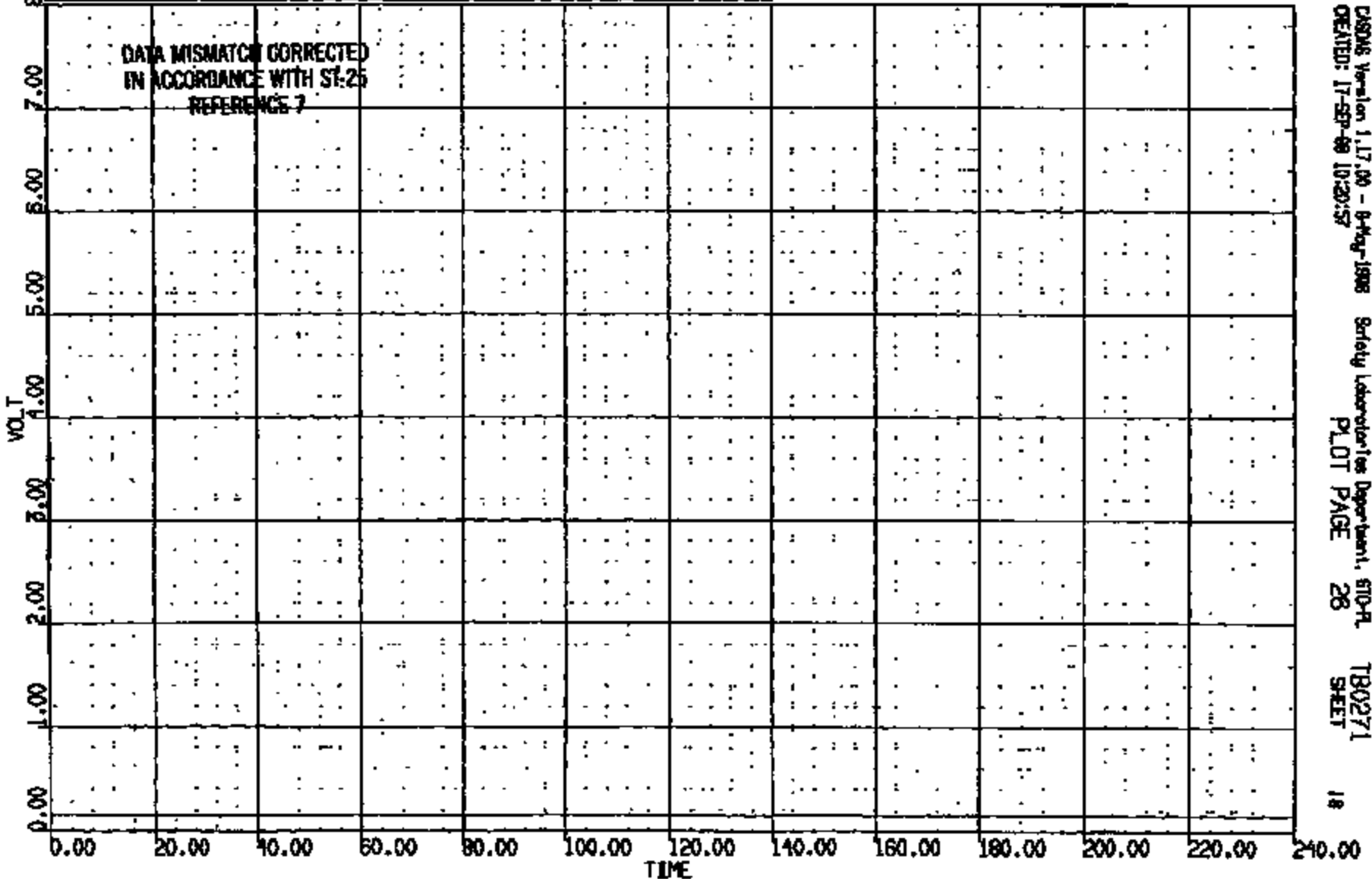
CRTS 0011191

CR R: 11191 TO: TB0271 DATE: 280914 14:25:41  
2000 D-106

(14) CRT1191T C/F FLOORPAN @ FWD TAIL SW009-7 400C  
MAX = 0.1563 at 30.48 NS MIN = 0.1357 at 32.80 NS

AXIS 1

DATA MISMATCH CORRECTED  
IN ACCORDANCE WITH SF-25  
REFERENCE 7



CRS006 Version 1.17.00 - 8-Aug-1998 Safety Laboratories Department, SIOPL TB0271  
CREATED: 17-SEP-98 10:20:57 PLOT PAGE 28 SHEET 18

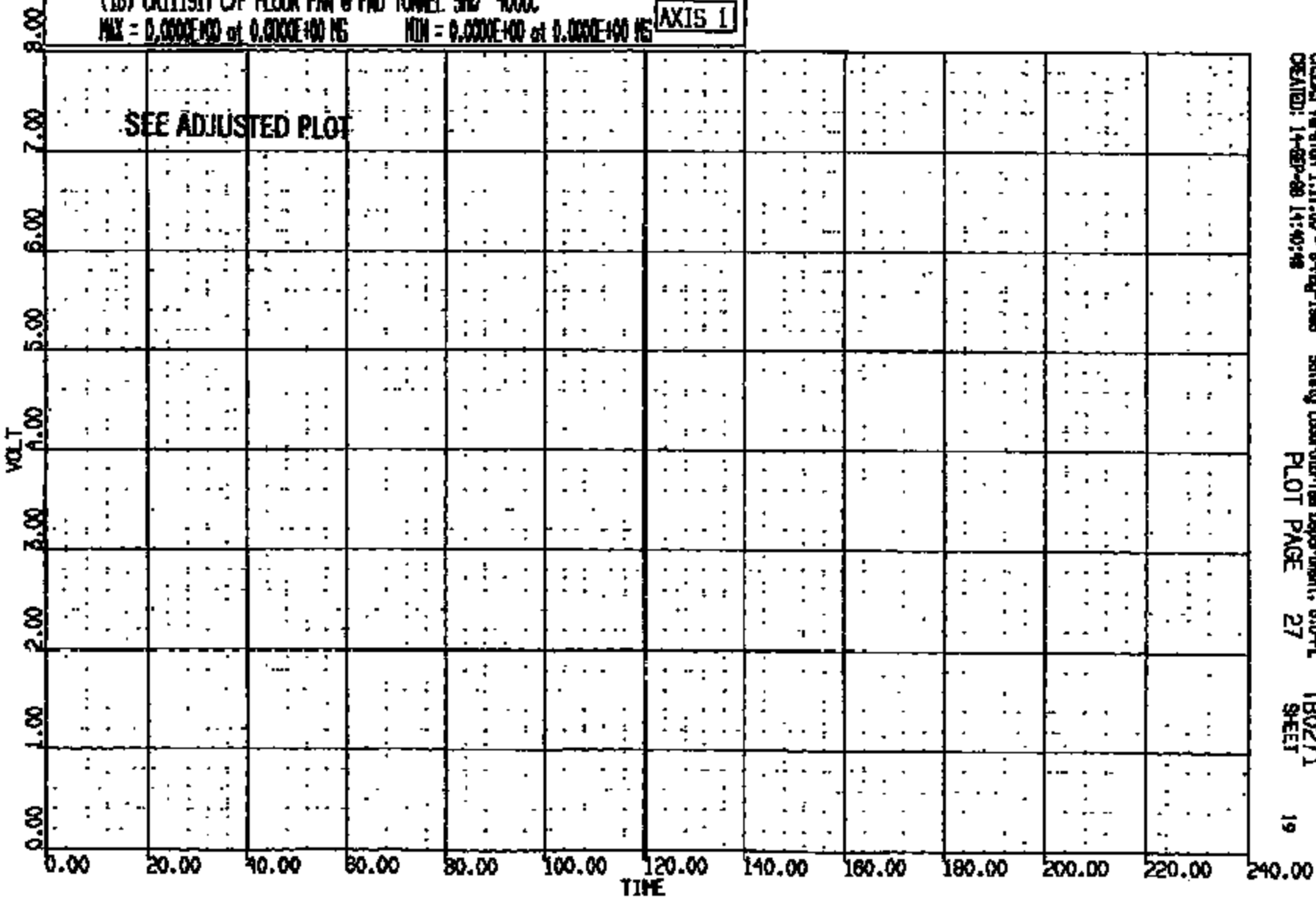
CRS 0011191

CR R: 11191 TO: TB0271 DATE: 880814 14:25:41  
2000 D-188

(16) CR1191T C/F FLOOR PW @ FID TUNNEL. SMD 400C  
MAX = 0.0000E+00 at 0.0000E+00 MS MIN = 0.0000E+00 at 0.0000E+00 MS

AXIS 1

SEE ADJUSTED PLOT

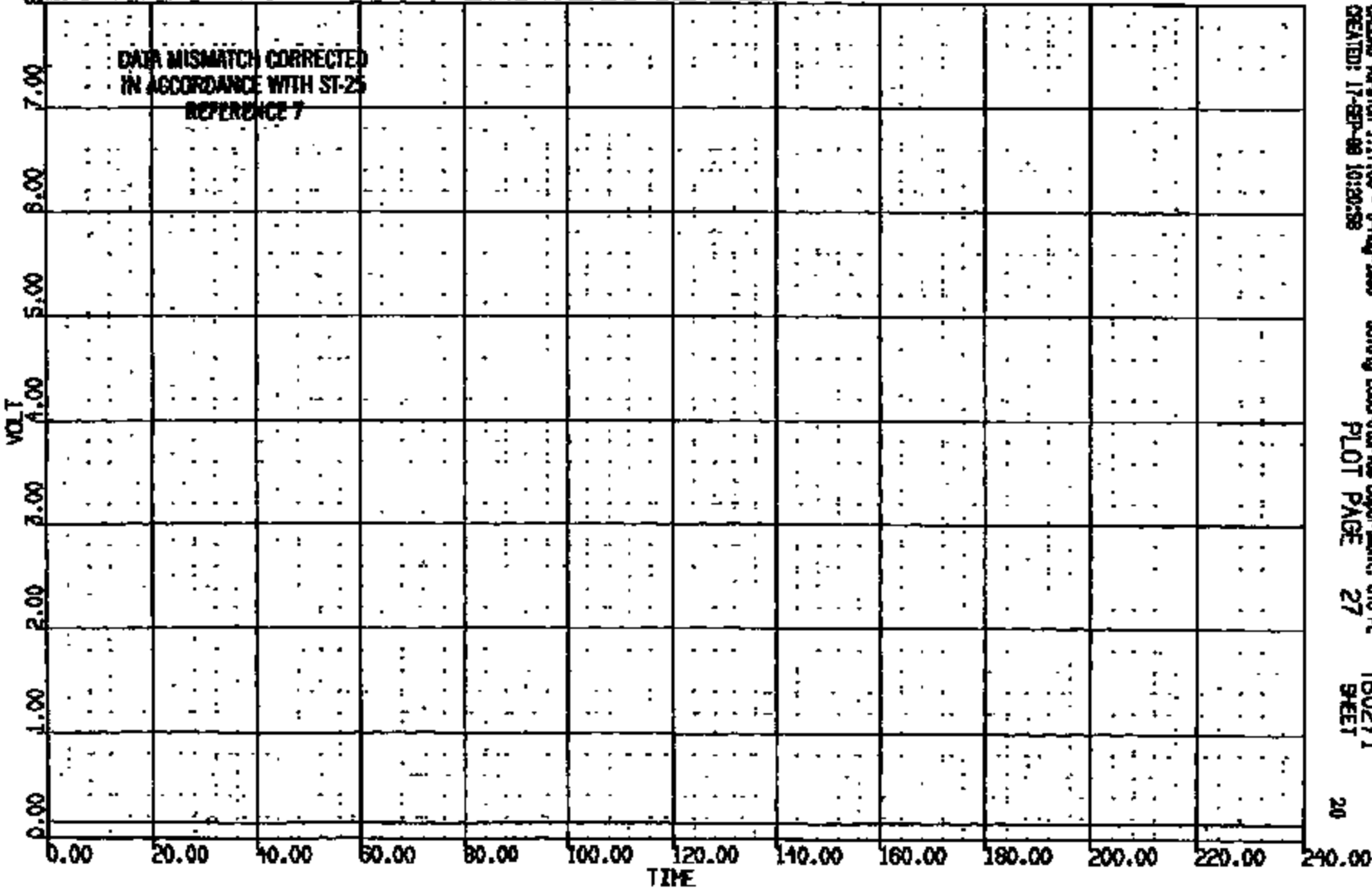


CADDS Version 1.17.00 - 8-May-1988 Safety Laboratories Department, 610-PL TB0271  
CREATED: 14-SEP-88 14:40:48 PLOT PAGE 27 SHEET 19

CRTS 001191

CR R= 11191 TO: TB0271 DATE: 860914 14:25:41  
8000 D-188

(15) CR1191T C/F FLOORPAN @ FWD IN 9809-8 400C  
MAX = 0.1758 at 30.48 MG MIN = 0.1172 at 124.3 MG **AXIS 1**

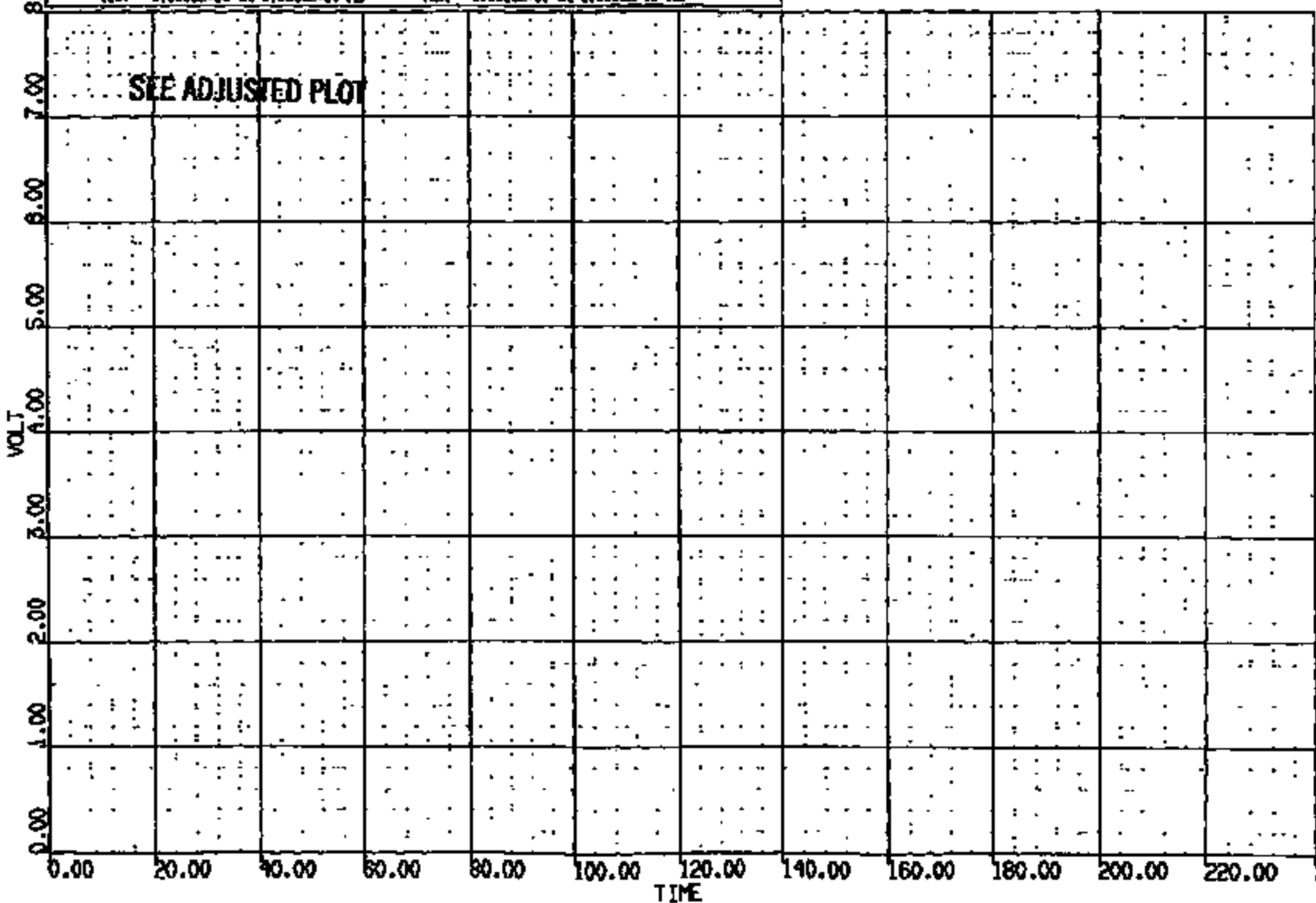


CRS Version 1.17.00 - 8-May-1988 Safety Laboratories Department, DTIC PL  
CREATED: 17-SEP-86 10:20:38 PLOT PAGE 27 SHEET

DR R: 11191 TO: TB0271 DATE: 980917 14:23:41  
2000 D-188

(16) CR1191LT C/F FLOOR PAN @ FWD TUNNEL SHD 4000C  
MAX = 0.0000E+00 at 0.0000E+00 MS MIN = 0.0000E+00 at 0.0000E+00 MS

AXIS 1



CRS Version 1.17.00 - 8-May-1998  
CREATED: 14-SEP-98 14:40:19

Safety Laboratories Department, 610-A  
PLOT PAGE 28

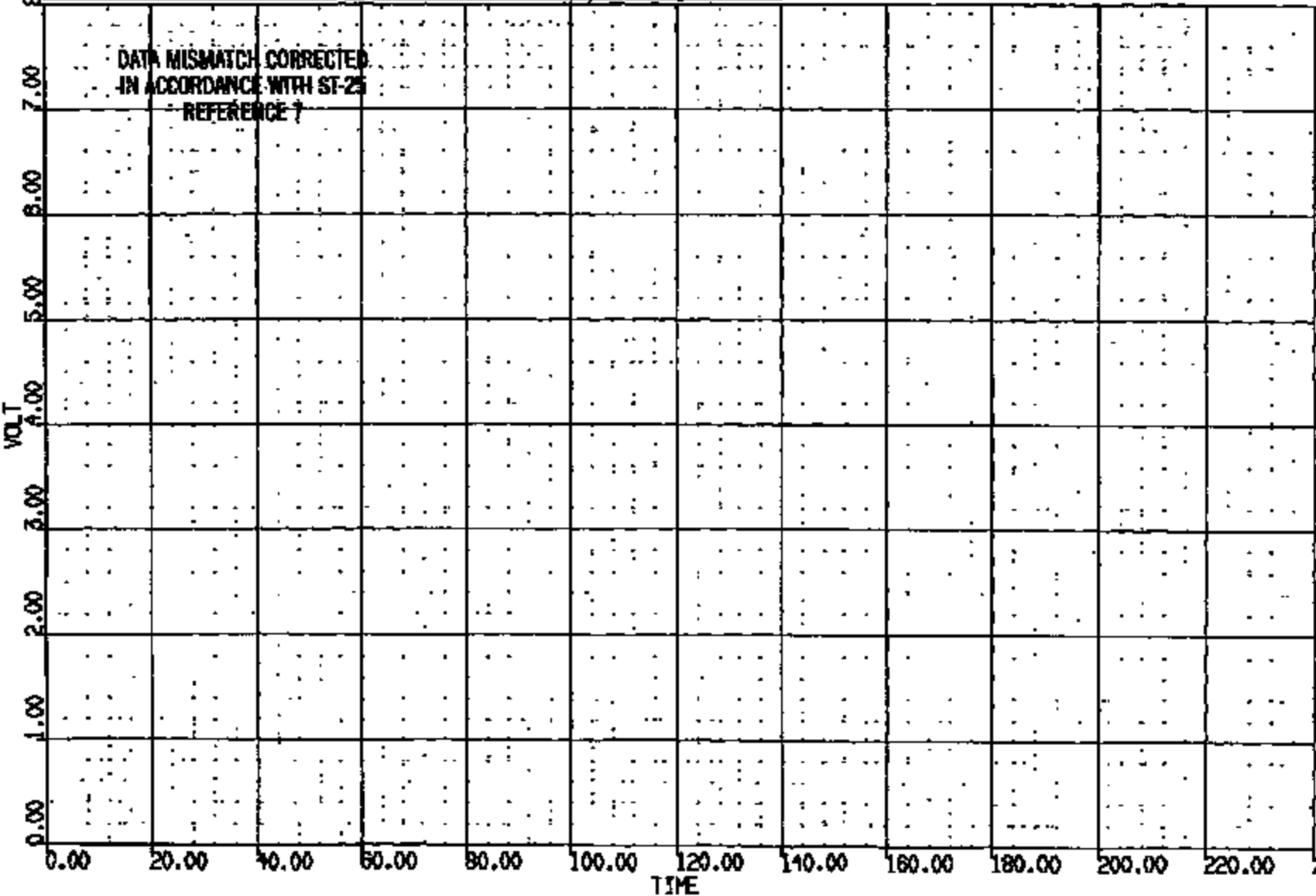
TB0271  
SHEET

CRIS 0011191

CR N: 11191 TO: TB0271 DATE: 980914 14:23:41  
2000 D-198

(16) CRIT191T C/F FLOORPAN @ FID INL 94009-9 4000C  
MAX = 0.0000E+00 at 0.0000E+00 NS MIN = 0.0000E+00 at 0.0000E+00 NS

AXIS 1



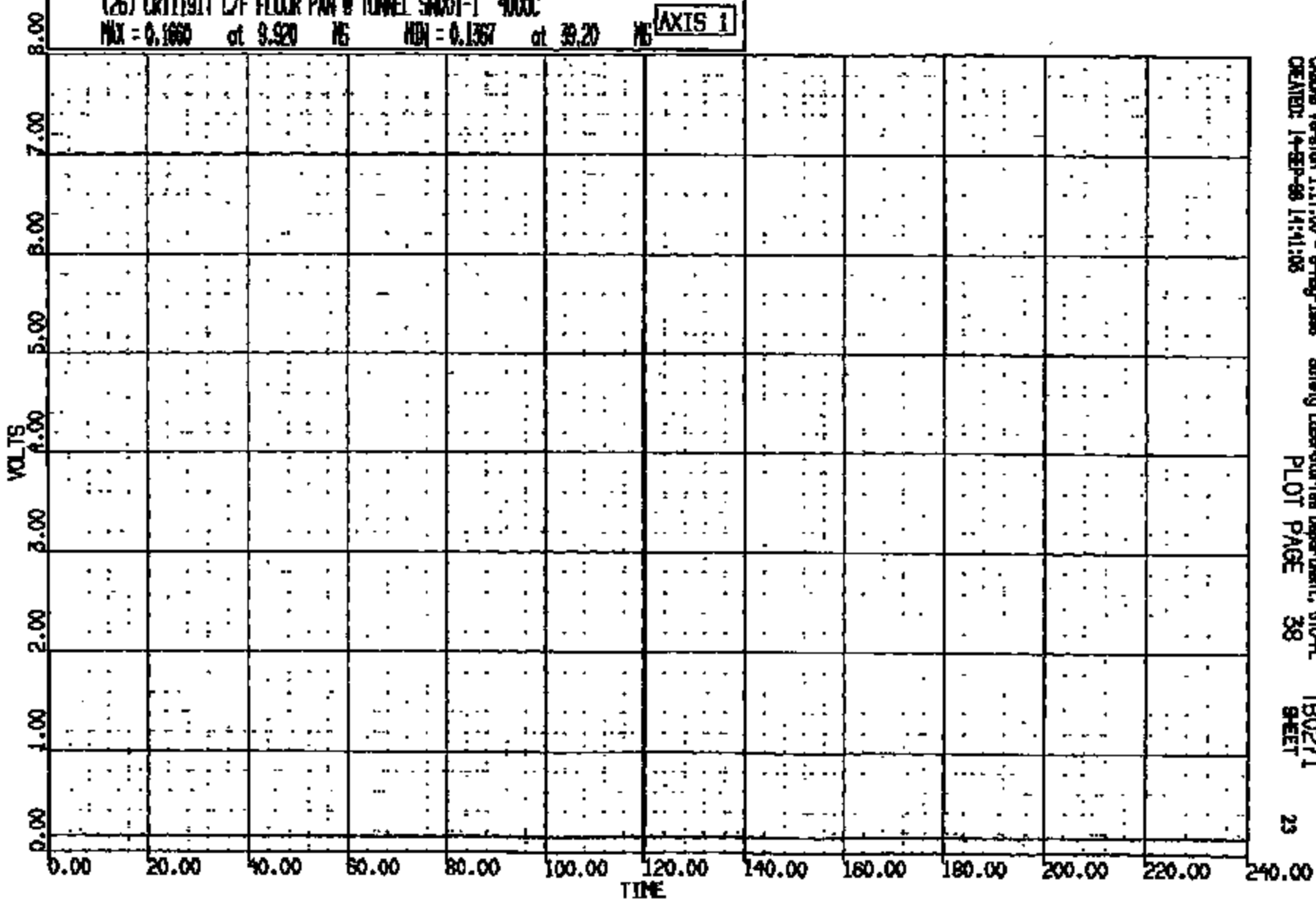
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CREATED: 17-SEP-98 10:20:59 PLOT PAGE 28 SHEET 22

CRTS 0011191

CR R: 11191 TO: TB0271 DATE: 980914 14:23:41  
2000 D-188

(26) CR11191T C/F FLOOR PAN @ TUNNEL SMOO1-1 400C  
MAX = 0.1660 at 9.920 MS MIN = 0.1367 at 39.20 MS

AXIS 1



CRADIS Version 1.17.00 - 8-May-1998  
CREATED: 14-SEP-98 14:41:03

Safety Laboratories Department, 610-PL  
PLOT PAGE 38

TB0271  
SHEET

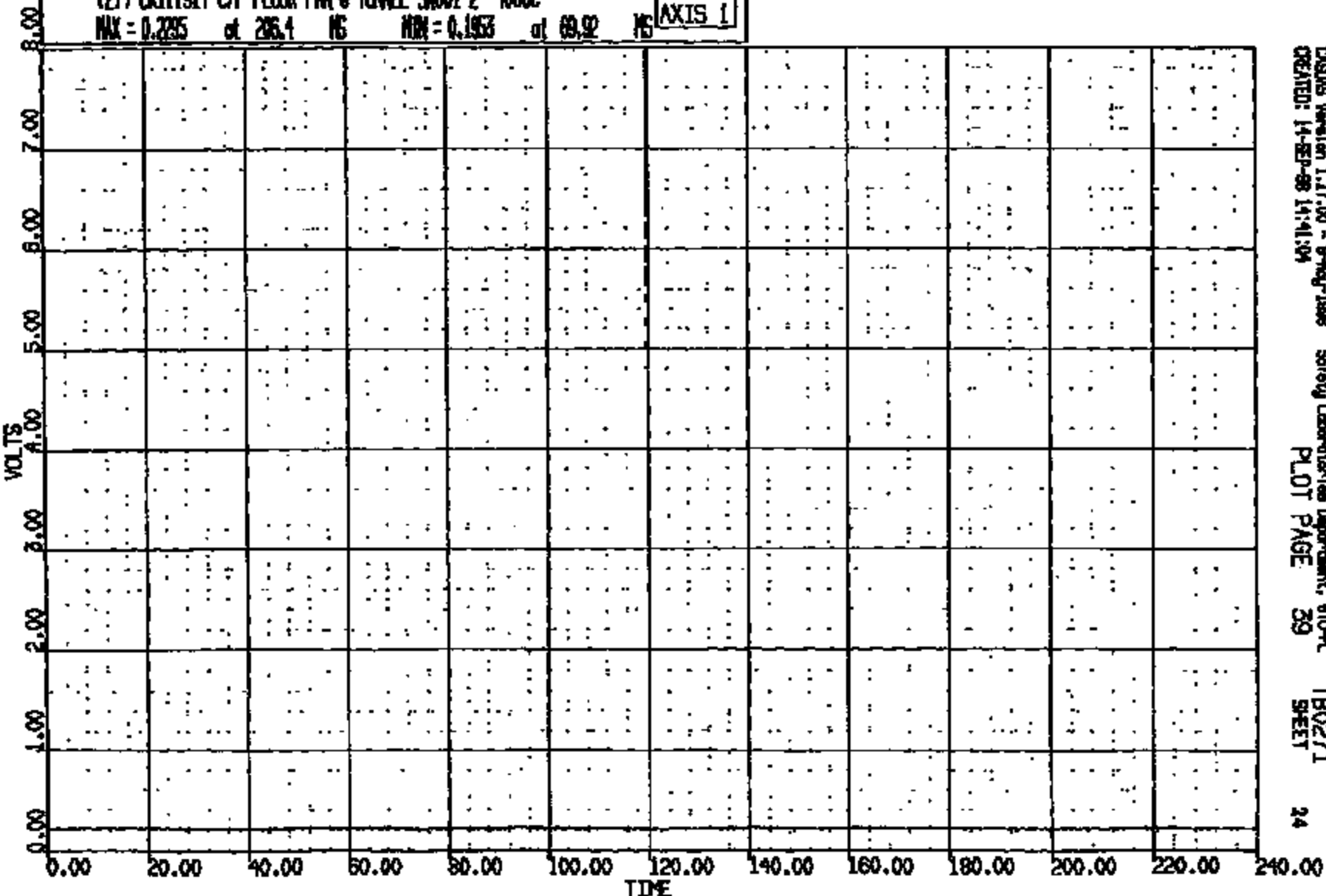
23

CRIS 0011191

DR R: 11191 TO: TB0271 DATE: 990914 14:25:41  
#000 D-199

(27) CR1191T C/F FLOOR PAN @ TUNNEL SMOKE-2 400C  
MAX = 0.2295 at 235.4 MS MIN = 0.1953 at 69.92 MS

AXIS 1



CASING Version 1.17.00 - 9-May-1999 Safety Laboratories Department, 610-PL  
CREATED: 14-SEP-98 14:41:04 PLOT PAGE 39 SHEET 24

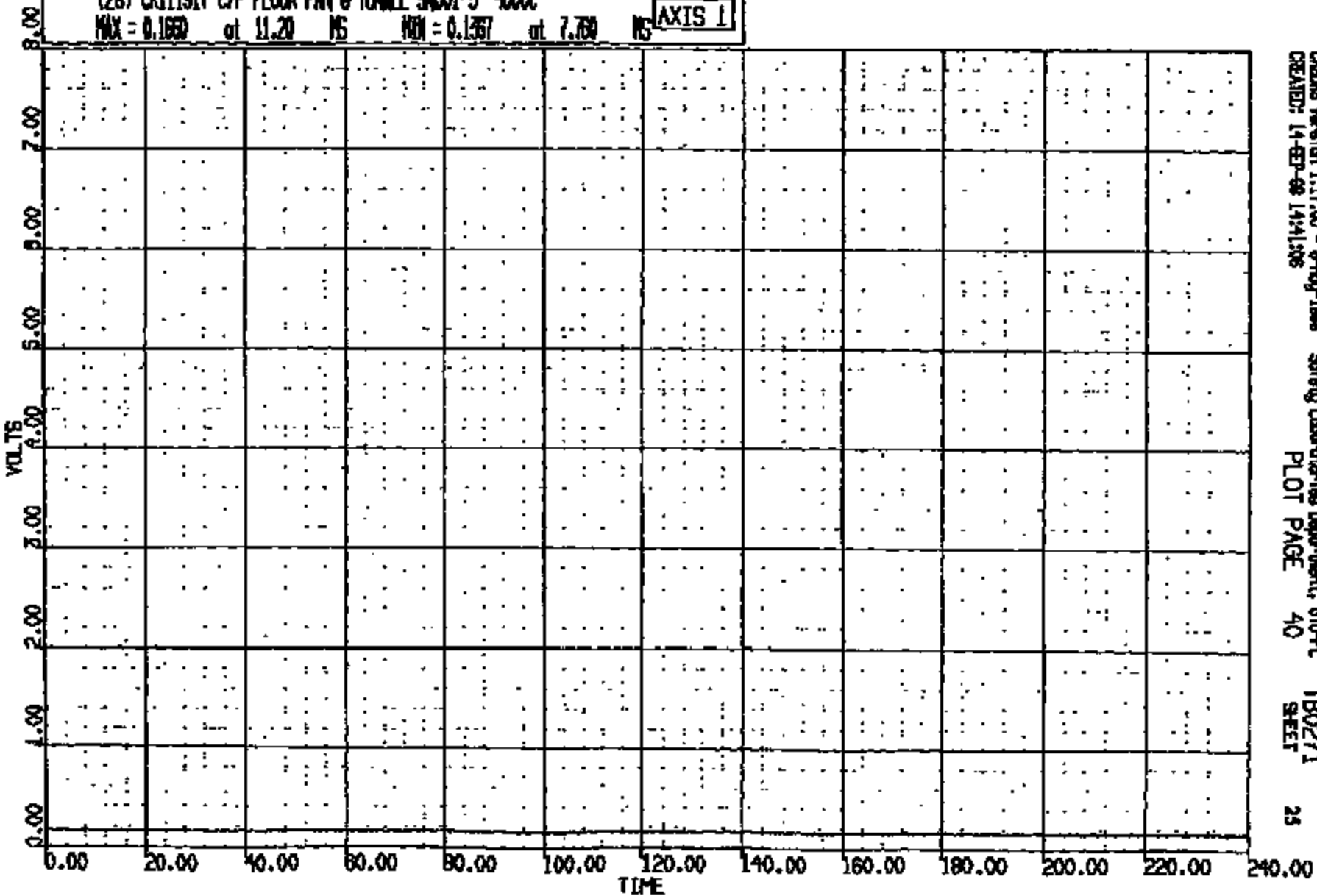
CRTS 0011191



CR R: 11191 TO: TB0271 DATE: 990914 14:28:41  
2000 D-196

(28) CR1191T C/F FLOOR PAN @ TUNNEL 94001-3 4000  
MAX = 0.1690 at 11.20 MS MIN = 0.1367 at 7.760 MS

AXIS 1



CRIBS View on 1:17:00 - 9-May-1999  
CREATED: 14-SEP-99 14:41:06

Safety Laboratories Department, 610-PL  
PLOT PAGE 40

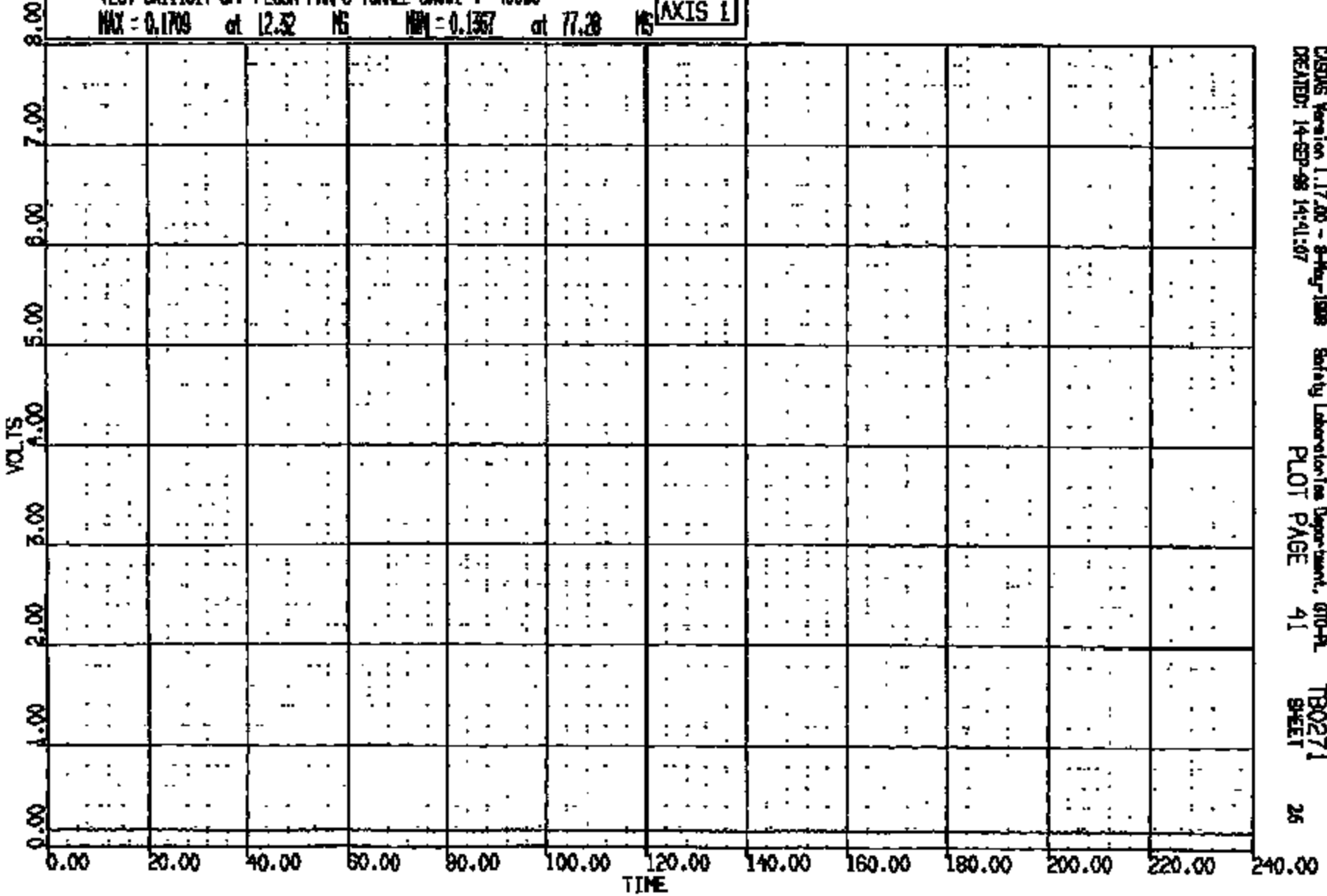
TB0271  
SHEET

25

CRIS 0011191

CR R: 11191 TO: 780271 DATE: 980914 14:28:41  
2000 D-188

(29) CR1191T C/F FLOOR PAN @ TUNEL SMOKE-4 4000C  
MAX = 0.1709 at 12.32 MS MIN = 0.1367 at 77.28 MS **AXIS 1**



CASYS Version 1.17.00 - 8-Aug-1998  
CREATED: 14-SEP-98 14:41:07

Safety Laboratory Department, G10-PL  
PLOT PAGE 41

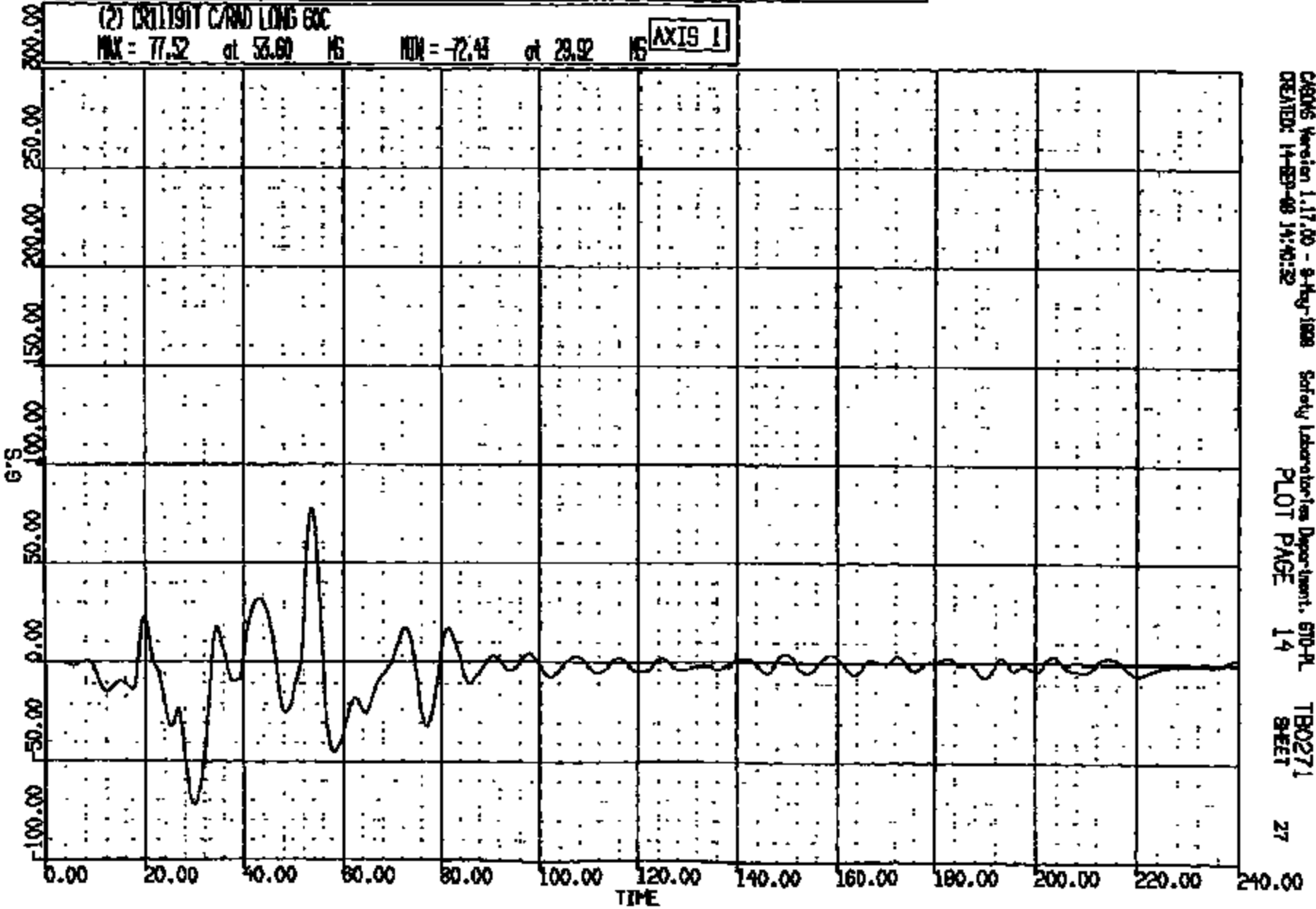
TB0271  
SHEET

CR #: 11191 TO: TB0271 DATE: 980914 14:23:41  
2000 0-188

(2) CR1191T C/RAD LONG GSC

MAX = 77.52 at 53.60 MS MIN = -72.43 at 29.92 MS

AXIS 1



CRAMS Version 1.17.00 - 9-May-1999  
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Safety

Laboration Department, 610-PL

PLOT PAGE 14

TB0271

SHEET

27

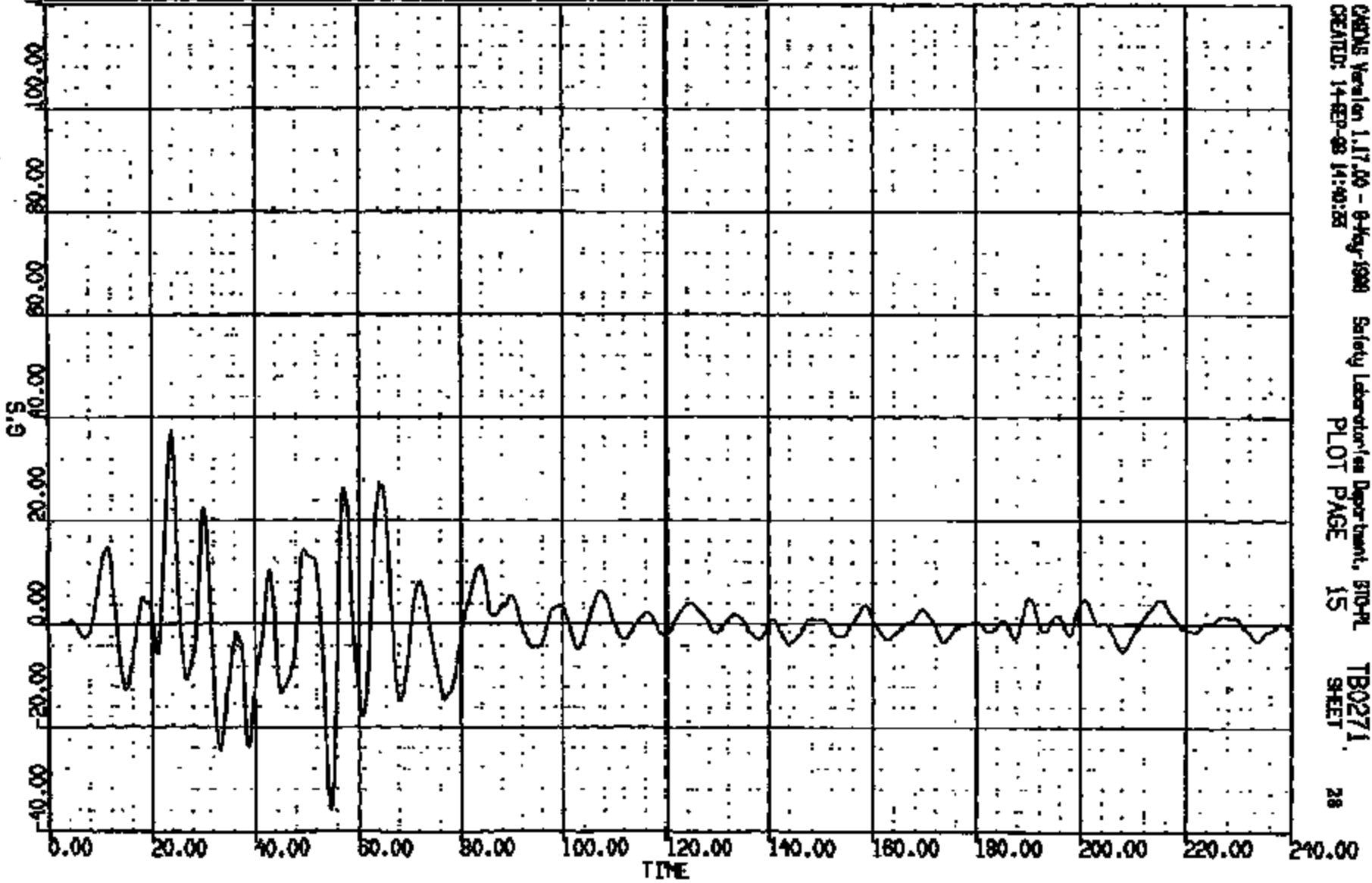
CRIS 0011191

CR R: 11191 TD: TB0271 DATE: 280914 14:23:41  
2000 0-186

(3) CR1191T C/RND VERT 6DC

MAX = 37.29 at 23.91 MS MIN = -35.81 at 51.80 MS

AXIS 1



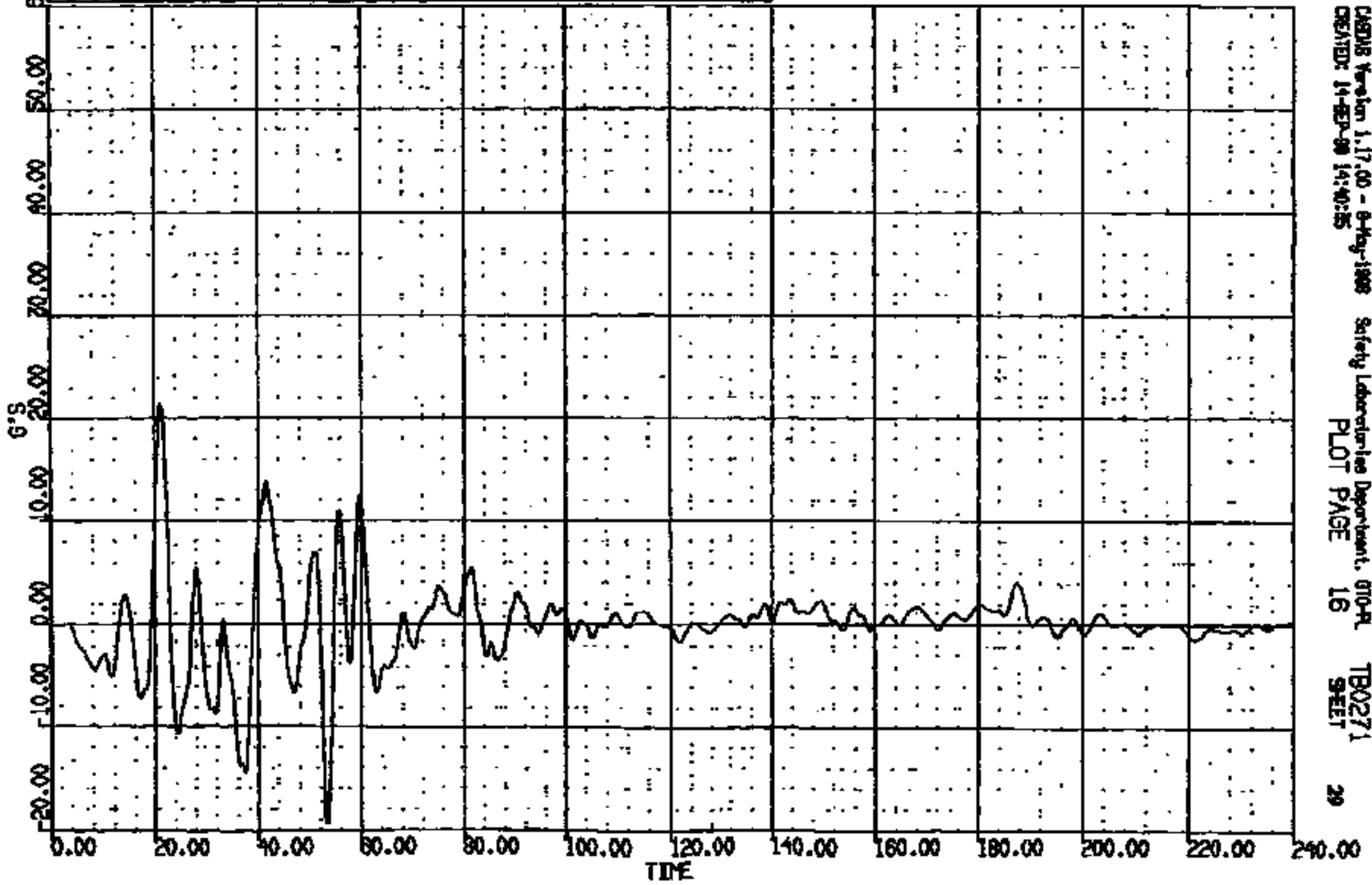
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CREATED: 14-SEP-98 14:40:28 PLOT PAGE 15 SHEET 28

CRIS 001191

CR RI 11191 TO: TB0271 DATE: 990914 14:25:41  
2000 D-160

(4) CRIT191T C/RAD LAT SOC  
MAX = 21.41 at 21.36 NS MIN = -19.56 at 53.28 NS

AXIS 1

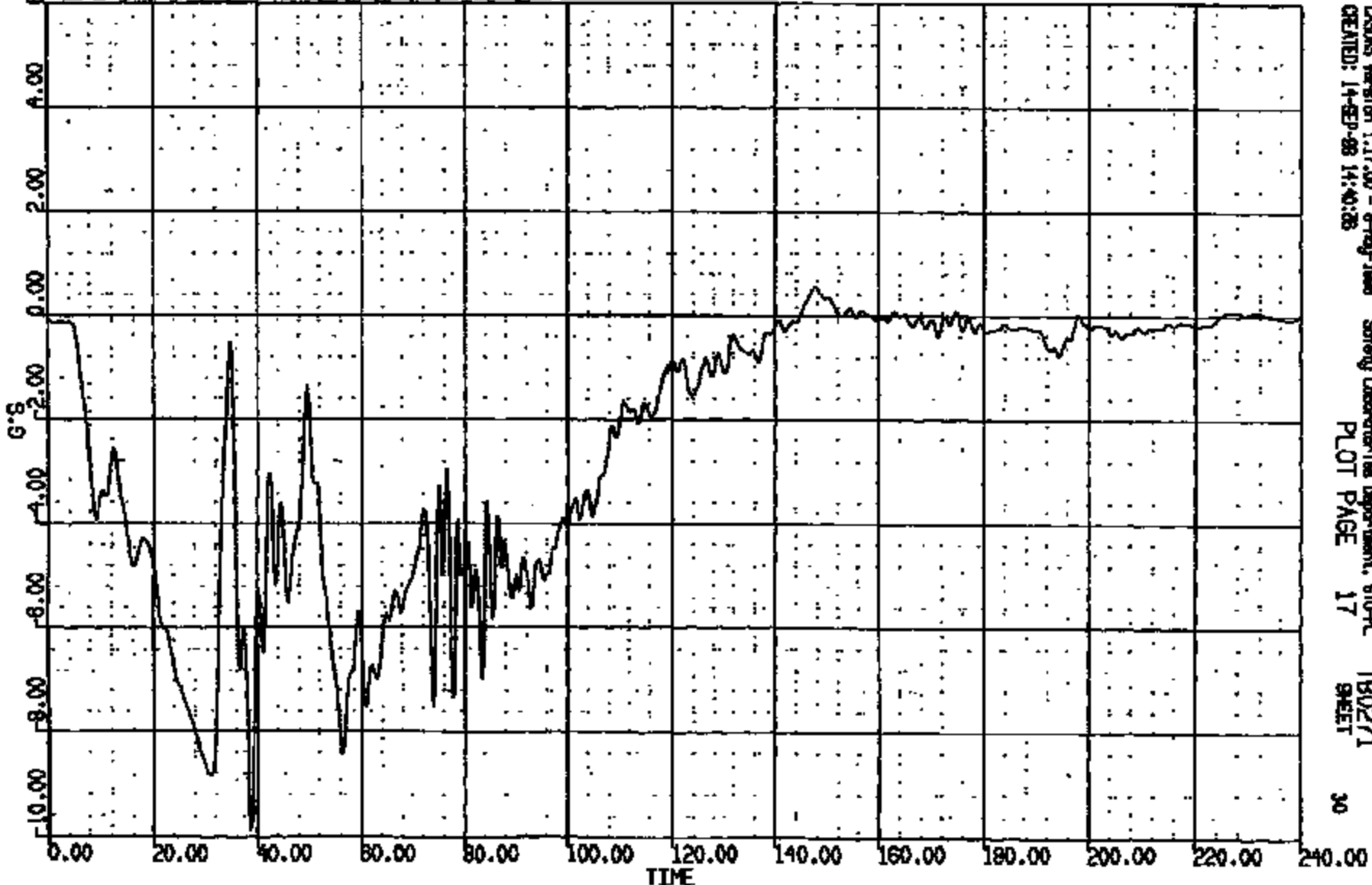


CRIBS Version 1.17.00 - 8-May-1998 Safety Laboratories Department, ORO-RL TB0271  
CREATED: 14-SEP-99 14:40:25 PLOT PAGE 16 SHEET 29

CRTS 0011191

CR R: 11191 TO: TB0271 DATE: 980914 14:23:41  
2000 D-198

(5) CR111917 L/F FLOOR PAN @ #1 XMR SEAT C LONG 60C  
MAX = 0.5516 at 147.7 MS MIN = -9.853 at 38.72 MS **AXIS 1**

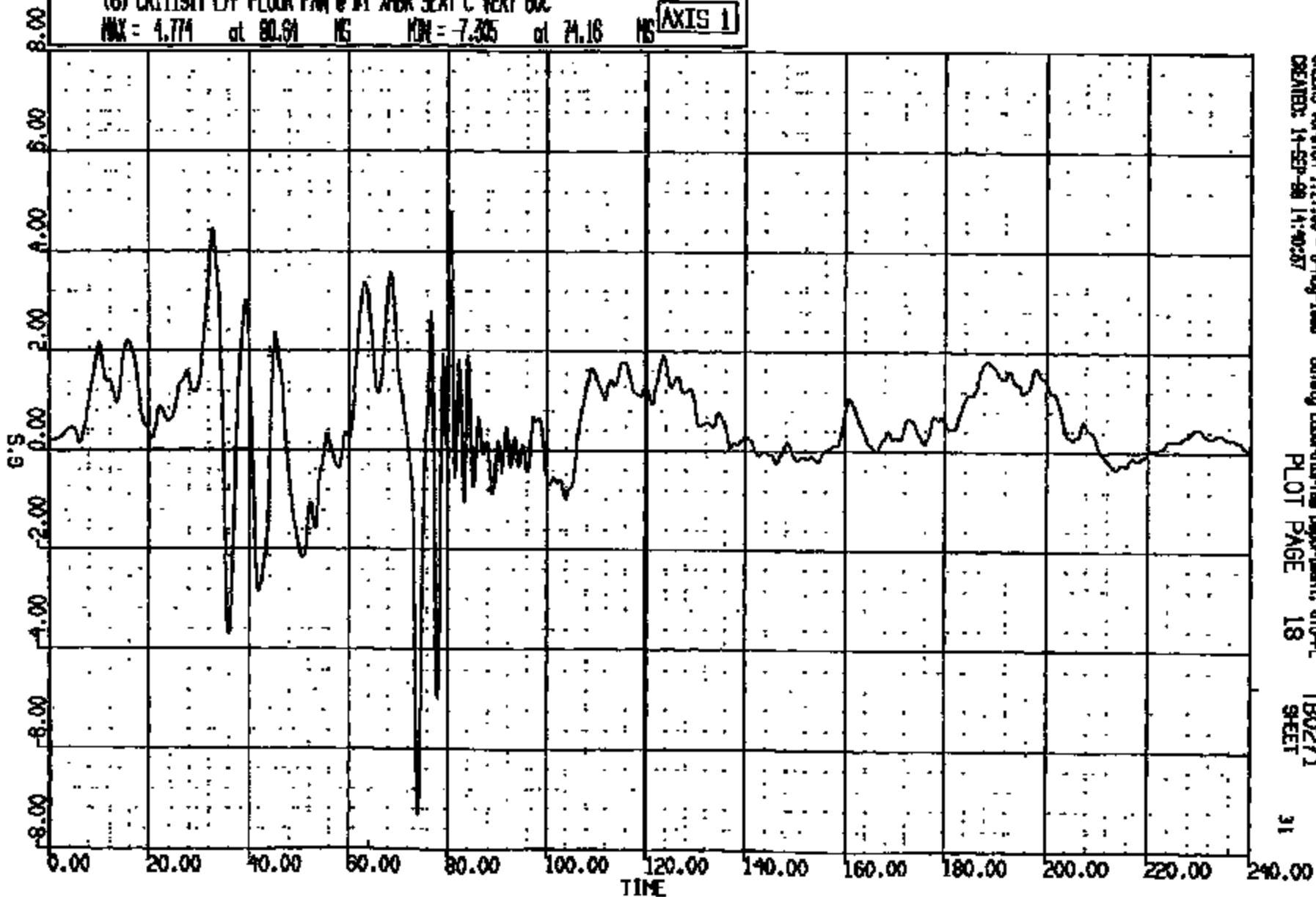


CADWIS Version 1.17.00 - 8-May-1998 Safety Laboratories Department, STD-PL  
CREATED: 14-SEP-98 14:40:28 PLOT PAGE 17 SHEET TB0271 30

CRIS 0011191

CR R: 11191 TO: TB0271 DATE: 990914 14:25:41  
2000 D-199

(6) CR11191T L/F FLOOR PAN @ AT XBR SEAT C VERT 60C  
MAX = 4.774 at 80.91 MS MIN = -7.305 at 71.16 MS **AXIS 1**



CRSIS Version 1.17.00 - 8-Aug-1999 Safety Laboratory Department, 870-PL  
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SHEET

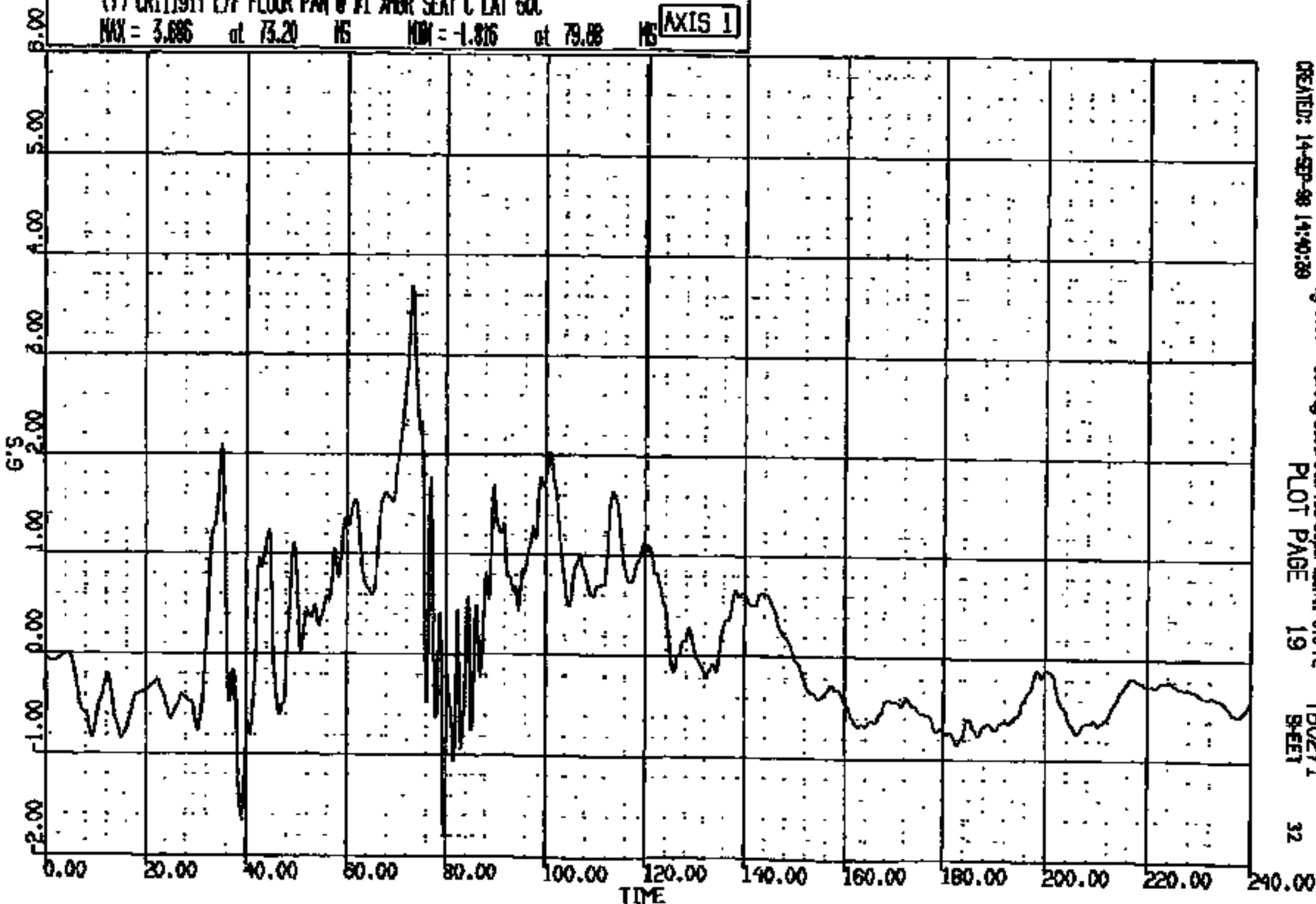
CRIS 0011191

CR R: 11191 TO: TB0271 DATE: 980914 14:23:41  
2000 D-198

(7) CR1191T L/F FLOOR PAN @ #1 XMR SEAT C LAT 60C

MAX = 3.686 at 73.20 MS MIN = -1.816 at 79.88 MS

AXIS 1



CRS Version 1.17.00 - 9-May-1998  
CREATED: 14-SEP-98 14:40:39

Safety Laboratories Department, 610-PL  
PLOT PAGE 19

TB0271  
SHEET

32

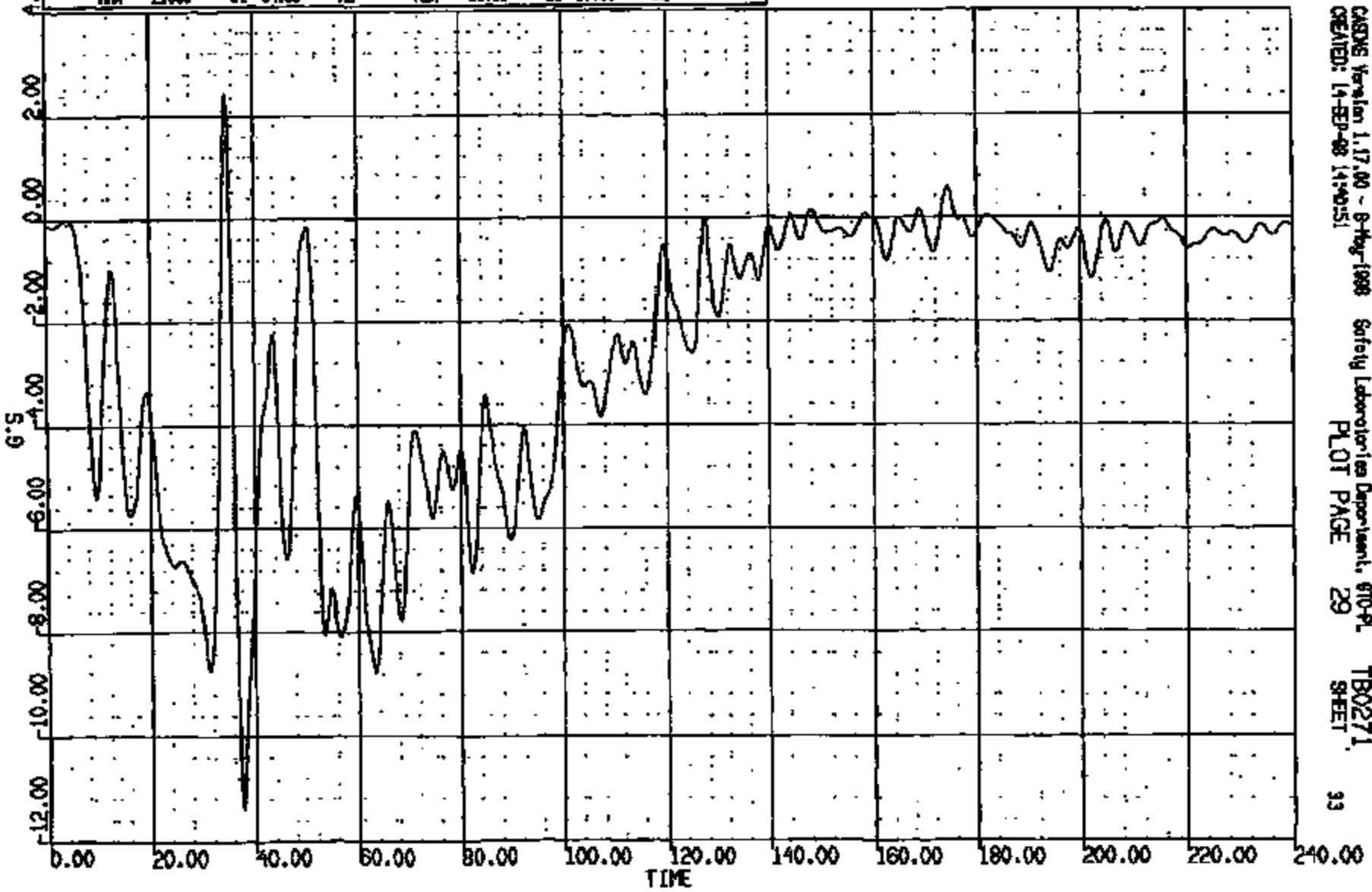
CRTS 0011191



CR R: 11191 TO: TB0271 DATE: 980914 14:23:41  
2000 D-188

(17) CR1191T C/F FLOOR PAN @ FWD TUNNEL LONG 60C  
MAX = 2.399 at 31.98 MS MIN = -11.36 at 37.60 MS

AXIS 1

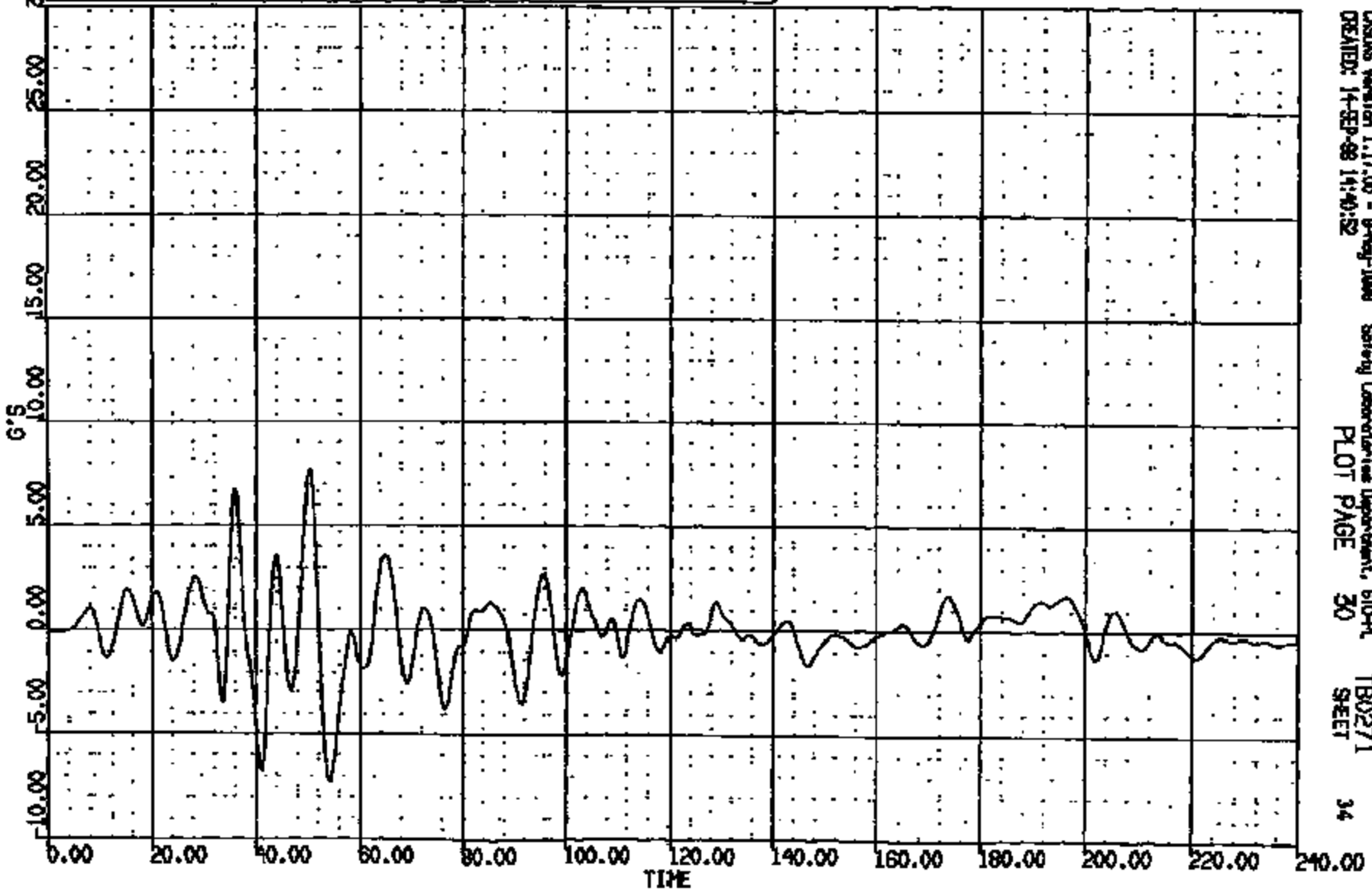


CASOS Version 1.17.00 - 8-May-1998 Safety Laboratories Department, 610-PL TB0271  
CREATED: 14-SEP-98 14:40:51 PLOT PAGE 29 SHEET 33

CRTS 0011191

CR R: 11191 TO: TB0271 DATE: 980814 14:28:41  
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(18) CR11191 C/F FLOOR PIN @ FWD TUNNEL VERT GXC  
MAX = 7.740 at 50.10 NS MIN = -7.267 at 51.16 NS **AXIS 1**

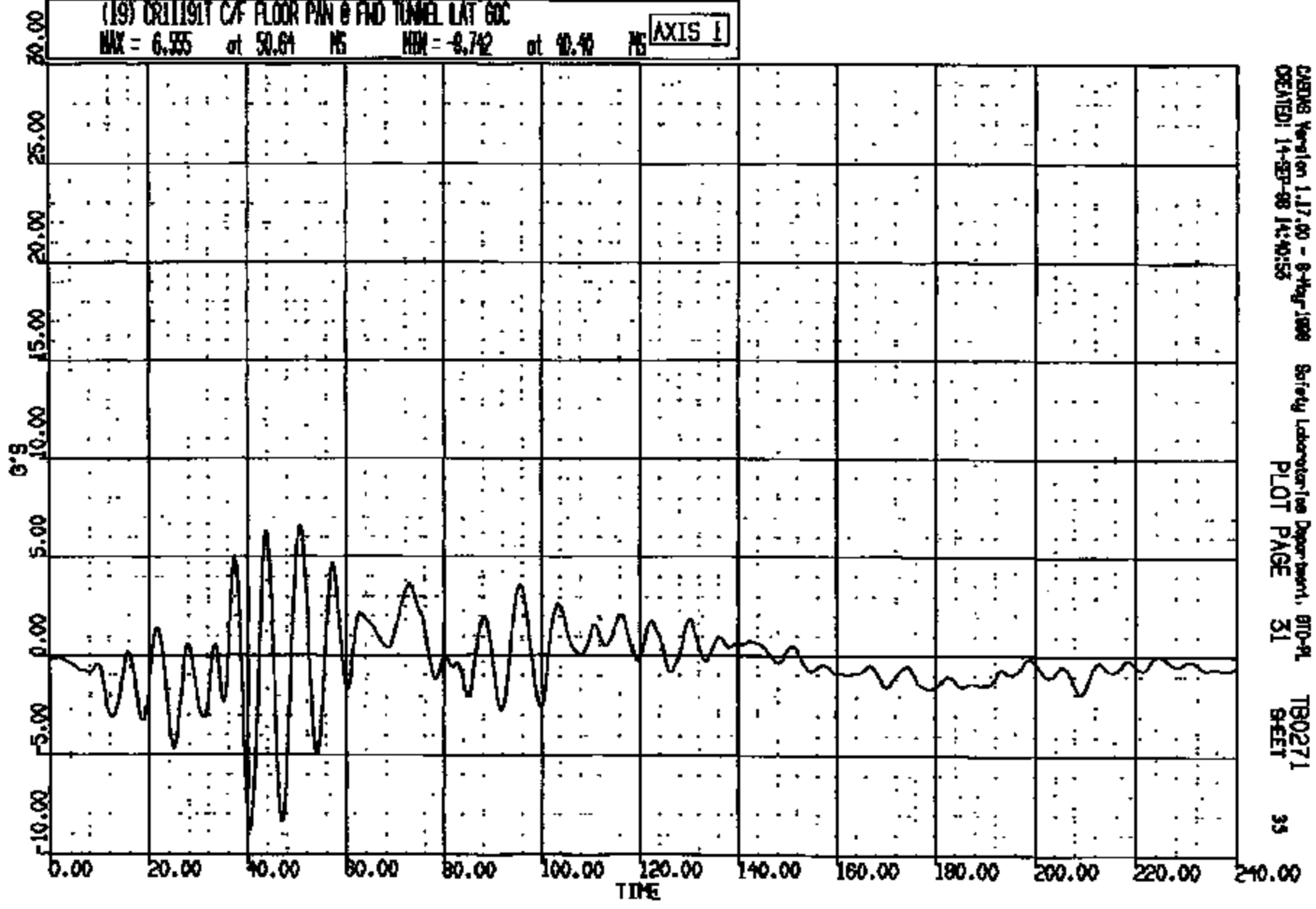


CASINS Version 1.17.00 - 9-May-1999 Safety Laboratories Department, SIDRA  
CREATED: 14-SEP-98 14:40:52 PLOT PAGE 30 SHEET TB0271 34

CRTS 0011191

CR #: 11191 TO: TB0271 DATE: 990914 14:25:41  
2000 D-198

(19) DRILLHOLE C/F FLOOR PAN @ FWD TUNNEL LAT 60C  
MAX = 6.555 at 50.64 MS MIN = -8.742 at 40.40 MS **AXIS 1**



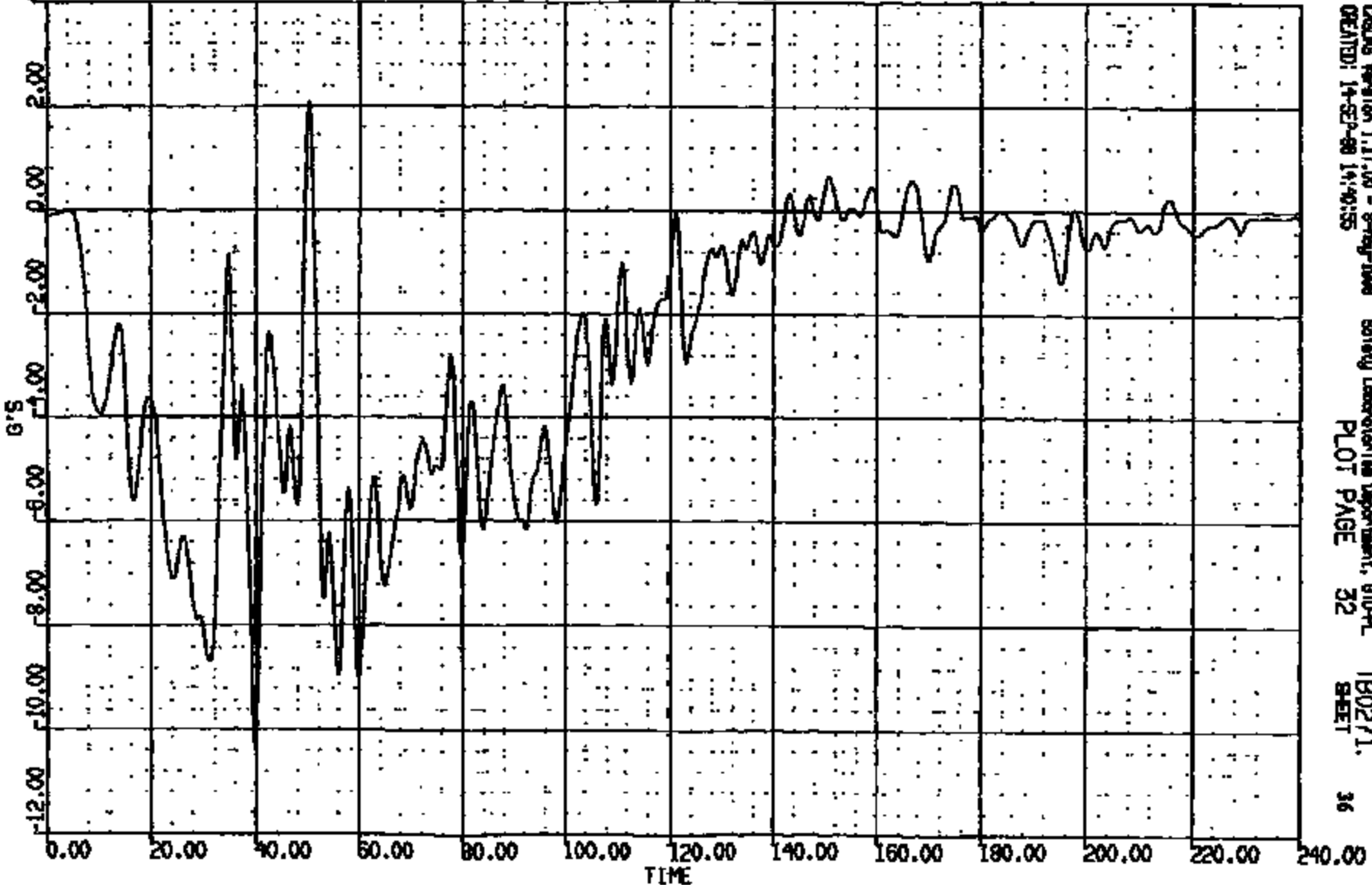
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CREATED: 14-SEP-98 14:40:53 PLOT PAGE 31 SHEET

CRIS 0011191

CR R: 11191 TO: TB0271 DATE: 990914 14:25:41  
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(20) CR11191T C/F FLOOR PIN @ TUNNEL SH LONG GUC  
MAX = 2.672 at 50.21 NS MIN = -10.93 at 38.04 NS

AXIS 1



CRSIS Version 1.17.00 - 9-Aug-1999 Safety Laboratory Department, GFD-PL  
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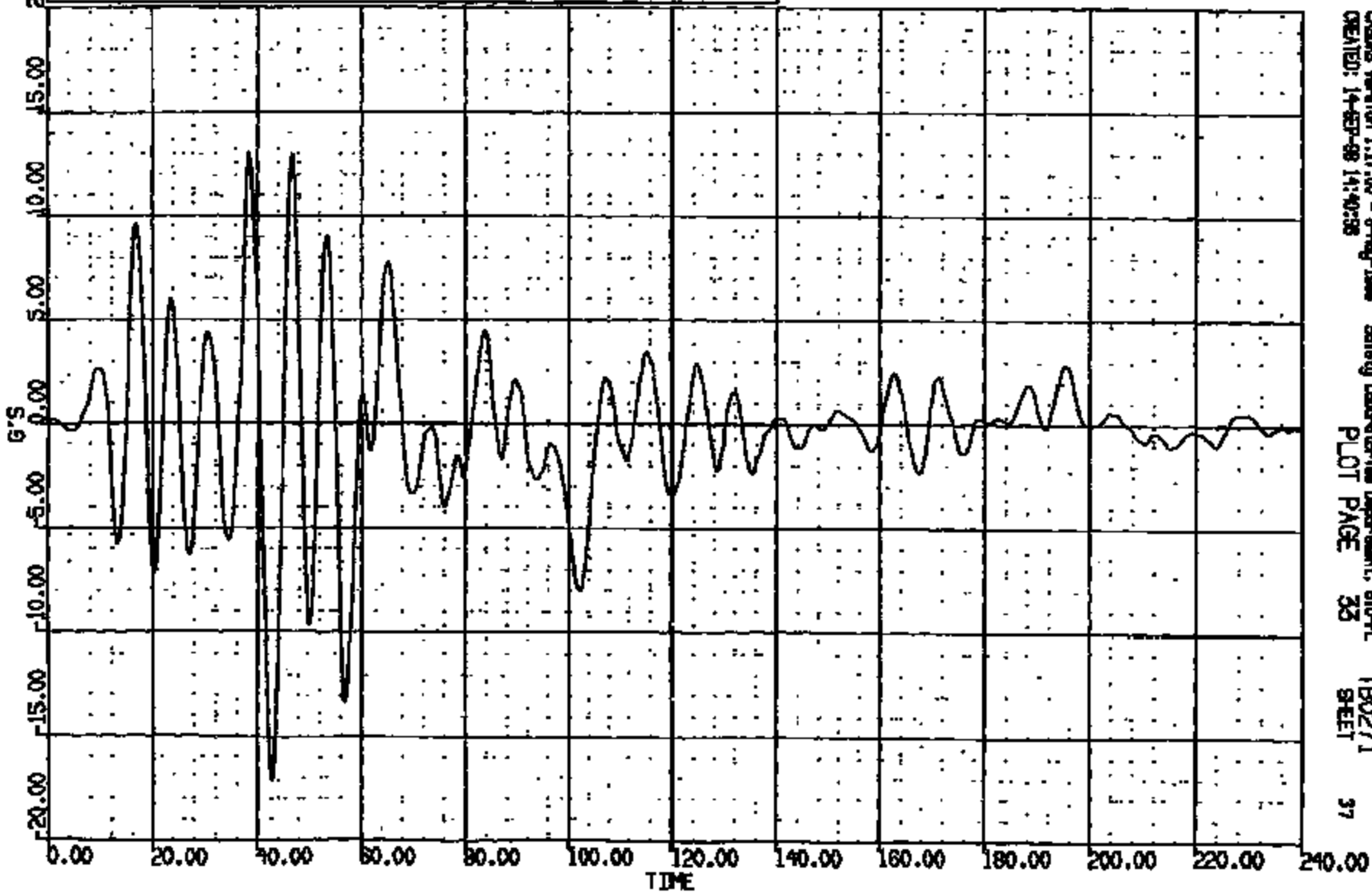
CRIS 0011191

CR R: 11191 TO: TB0271 DATE: 990914 14:23:41  
2000 D-198

(21) CR11191T C/F FLOOR P/W @ TUNNEL 5M VERT 60C

MAX = 13.03 at 36.40 MS MIN = -17.12 at 42.72 MS

AXIS 1



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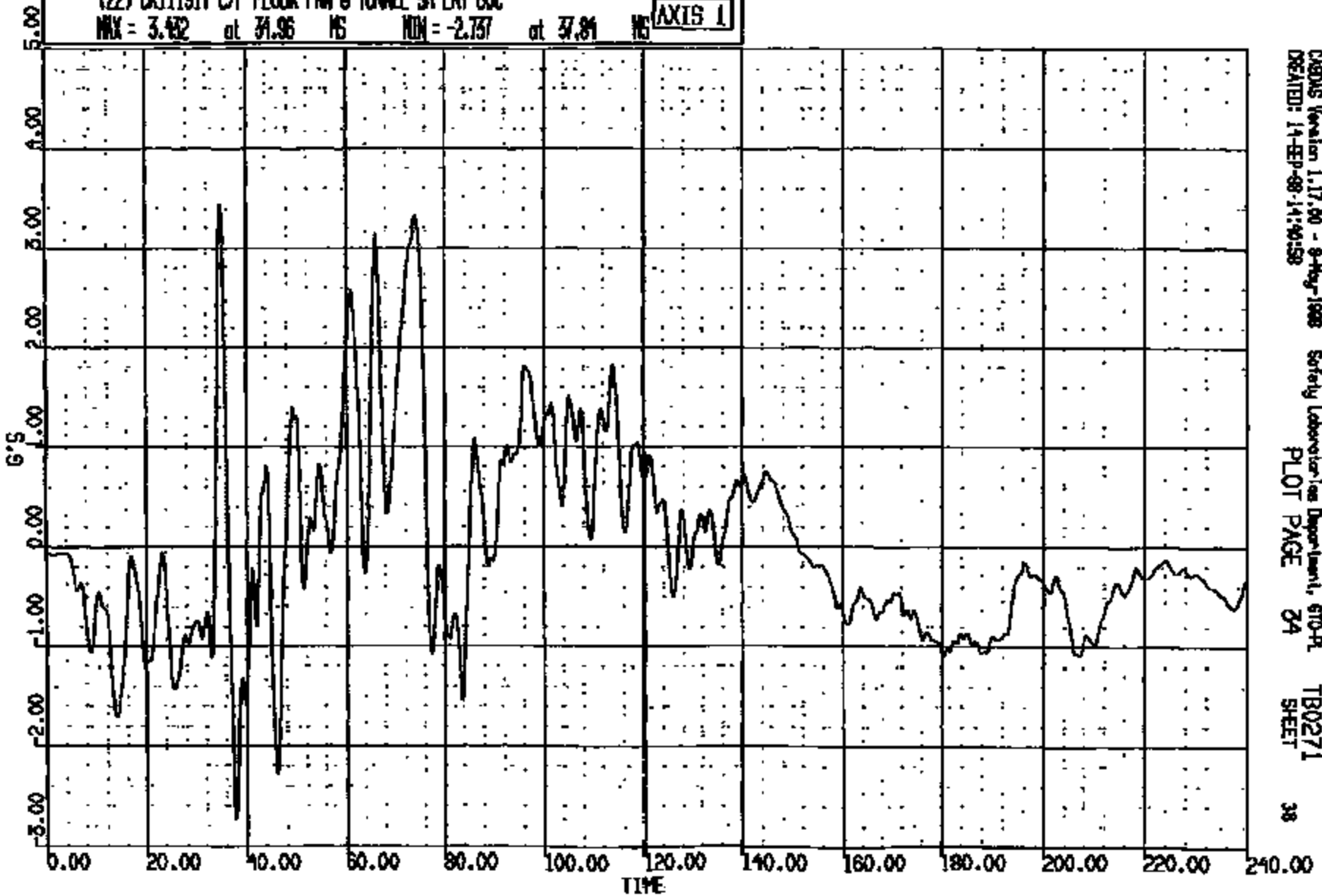
37

CRTS 0011191

CR R: 11191 TO: TB0271 DATE: 980914 14:23:41  
2000 0-188

(22) CR1191T C/F FLOOR P/W @ TUNNEL EN LAT 60C  
MAX = 3.432 at 34.96 MS MIN = -2.737 at 37.81 MS

AXIS 1



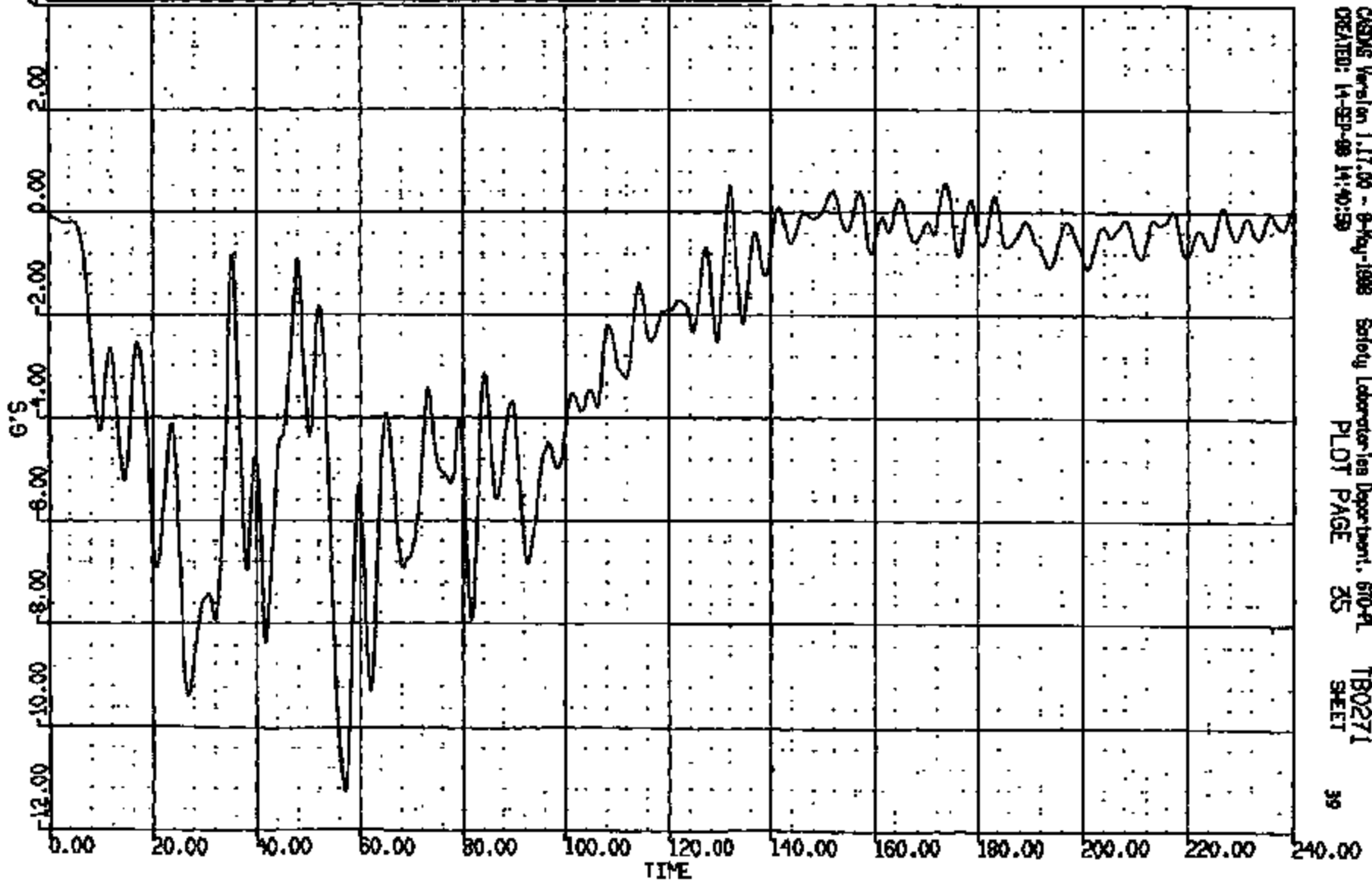
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CRTS 0011191

CR R: 11191 TO: TB0271 DATE: 990914 14:23:41  
2000 D-188

(23) CR11191T C/F FLOOR PAV @ TUNNEL LONG 60C  
MAX = 0.5794 at 173.6 NS MIN = -11.27 at 57.04 NS

AXIS 1



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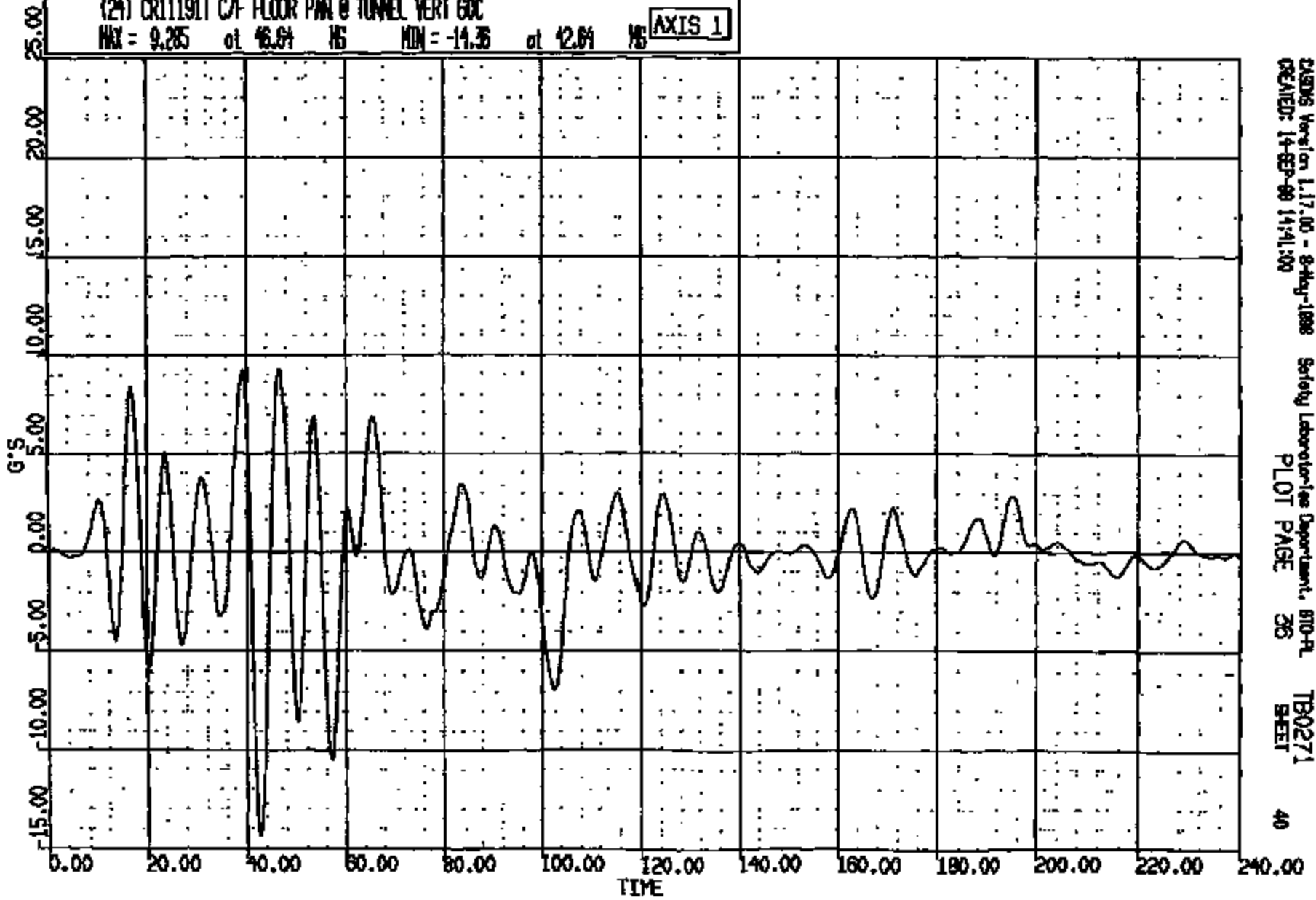
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PLOT PAGE 25

TB0271  
SHEET

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CR R: 11191 TO: TB0271 DATE: 980914 14:23:41  
2000 D-188

(24) CR11191T C/F FLOOR PAN @ TUNNEL VERT GOC  
MAX = 9.285 at 46.04 MS MIN = -14.36 at 42.04 MS **AXIS 1**



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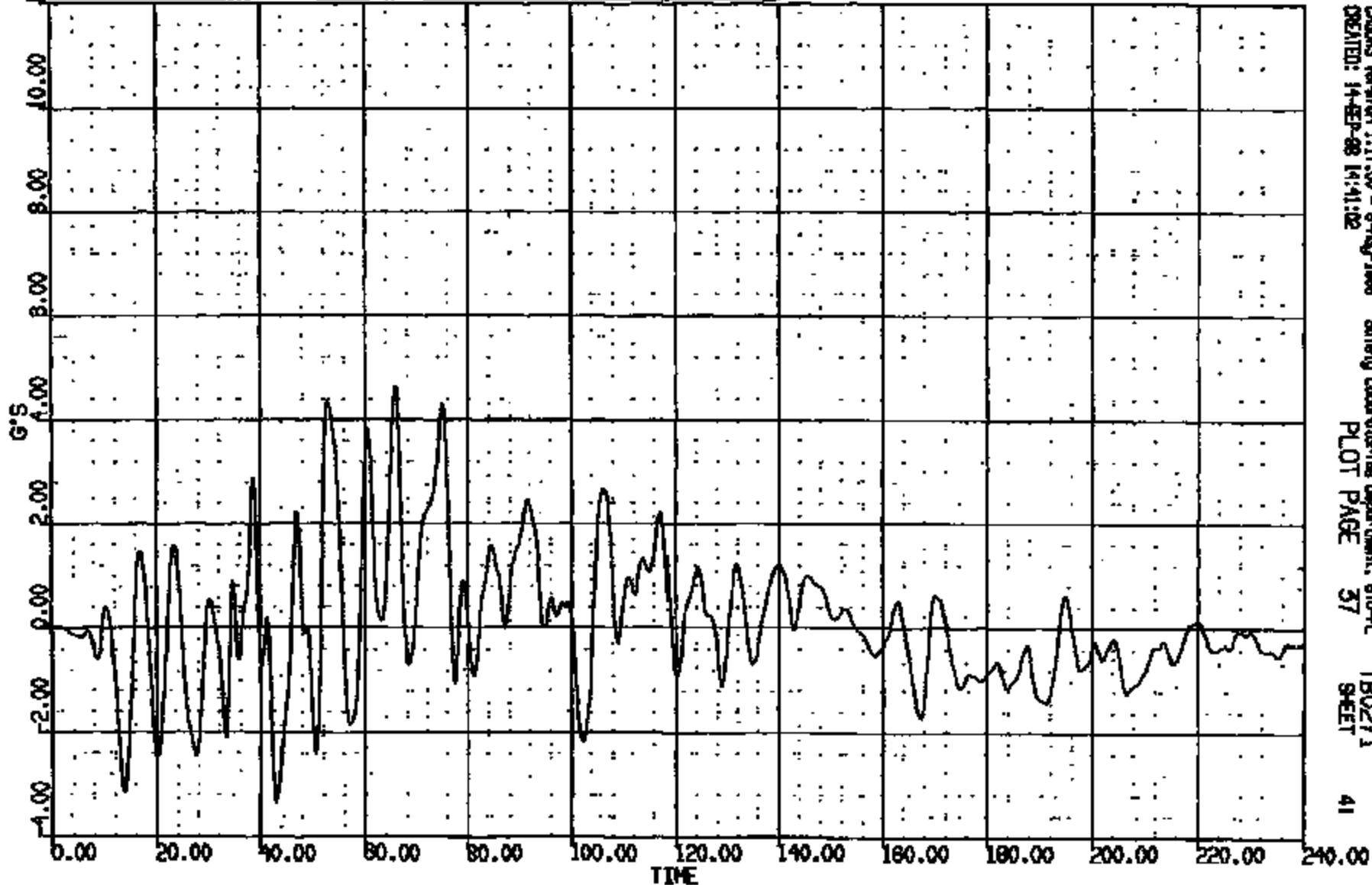
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CR R: 11191 TO: TB0271 DATE: 980914 14:25:41  
2000 D-188

(25) CR11191T C/F FLOOR PAN @ TUNNEL LAT 60C  
MAX = 1.689 at 65.08 HS MIN = -3.361 at 43.12 HS **AXIS 1**



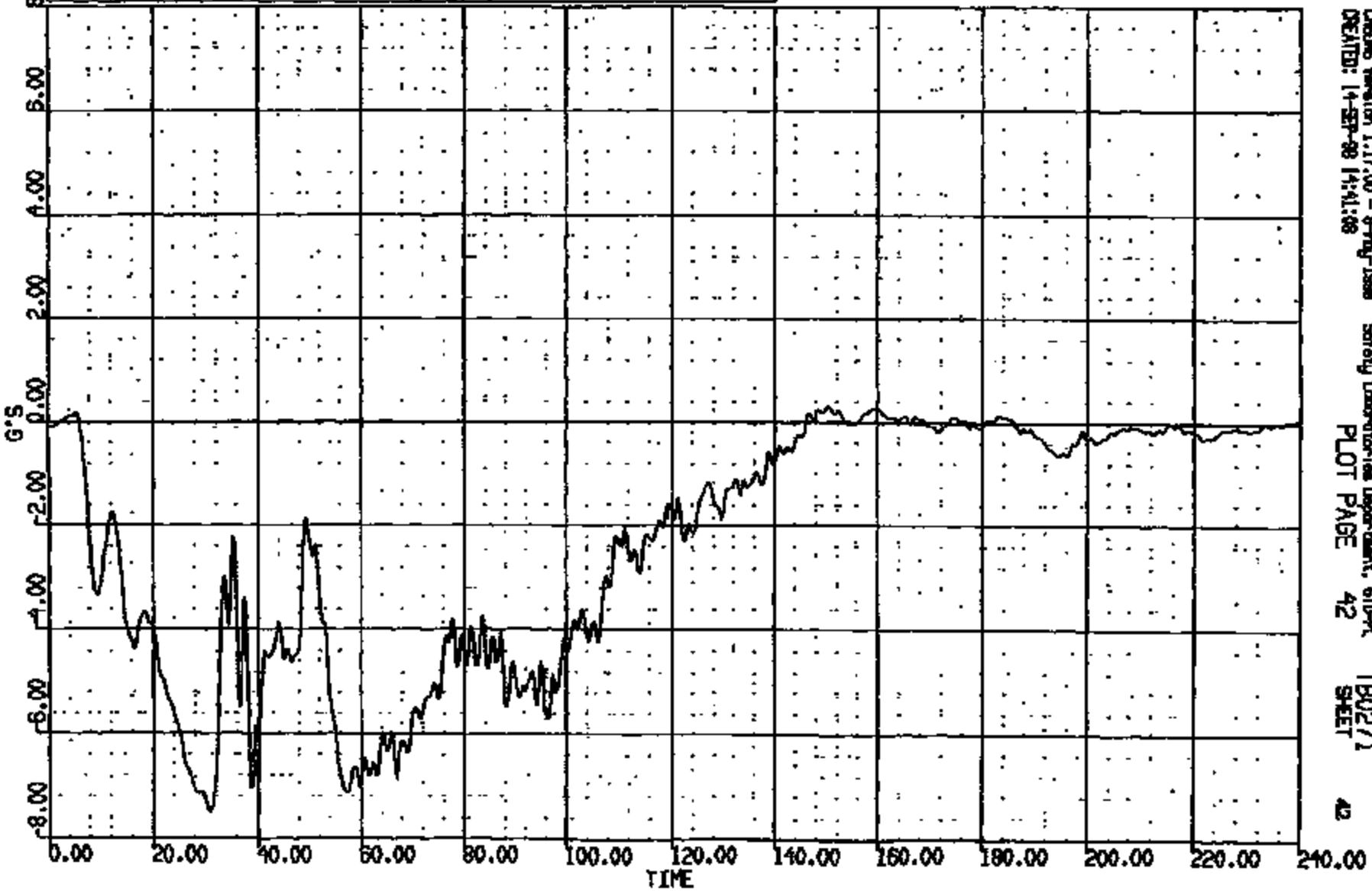
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(30) CR11191T R/F FLOOR PAN @ #1 WBR SEAT C LONG 60C  
MAX = 0.3279 at 130.4 NS MIN = -7.407 at 30.88 NS

AXIS 1

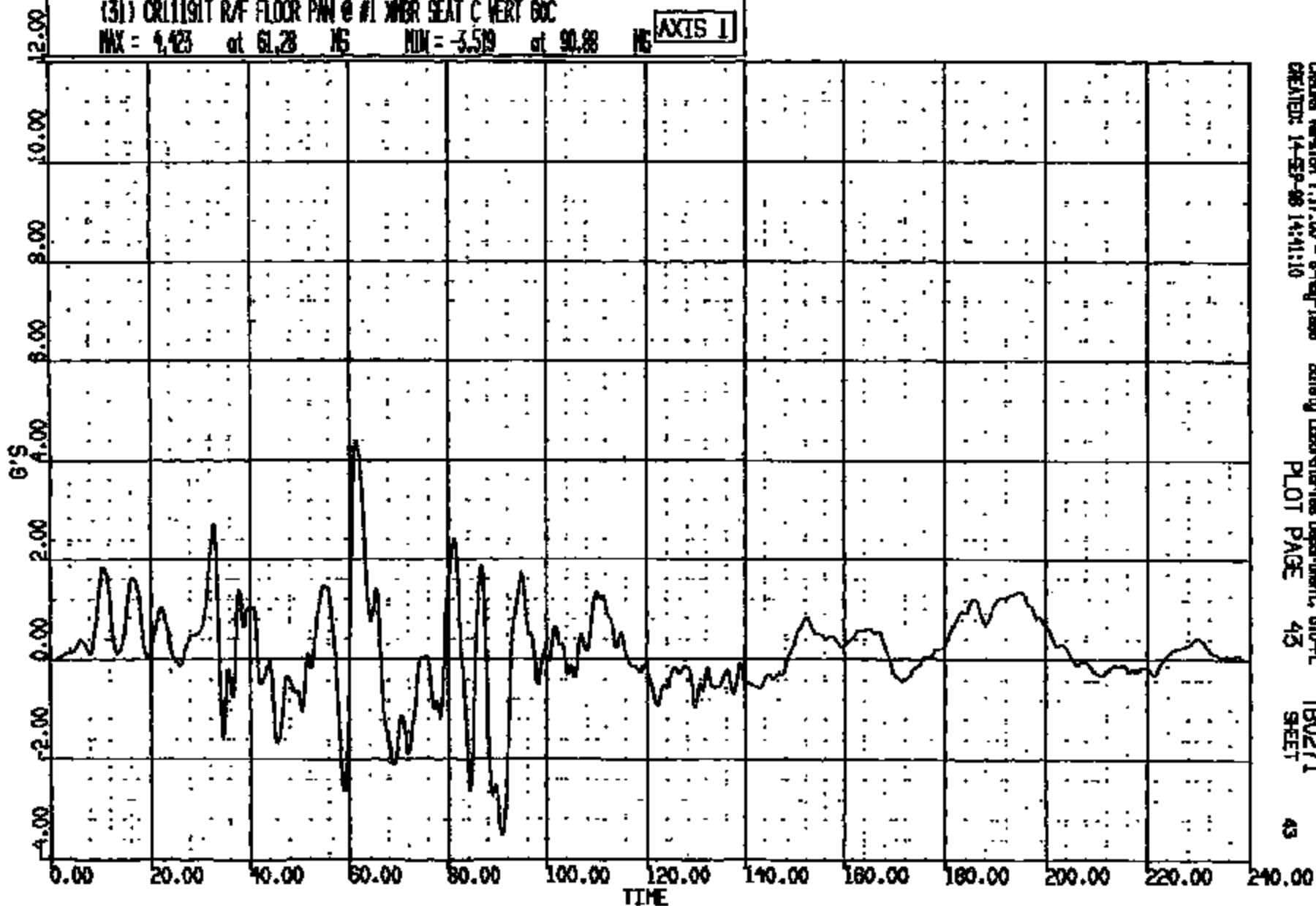


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CR R: 11191 TO: TB0271 DATE: 980914 14:23:41  
2000 D-188

(31) CRLLIGHT R/F FLOOR PAN @ #1 WING SEAT C VERT GOC  
MAX = 4.423 at 61.28 MS MIN = -3.519 at 90.88 MS **AXIS 1**

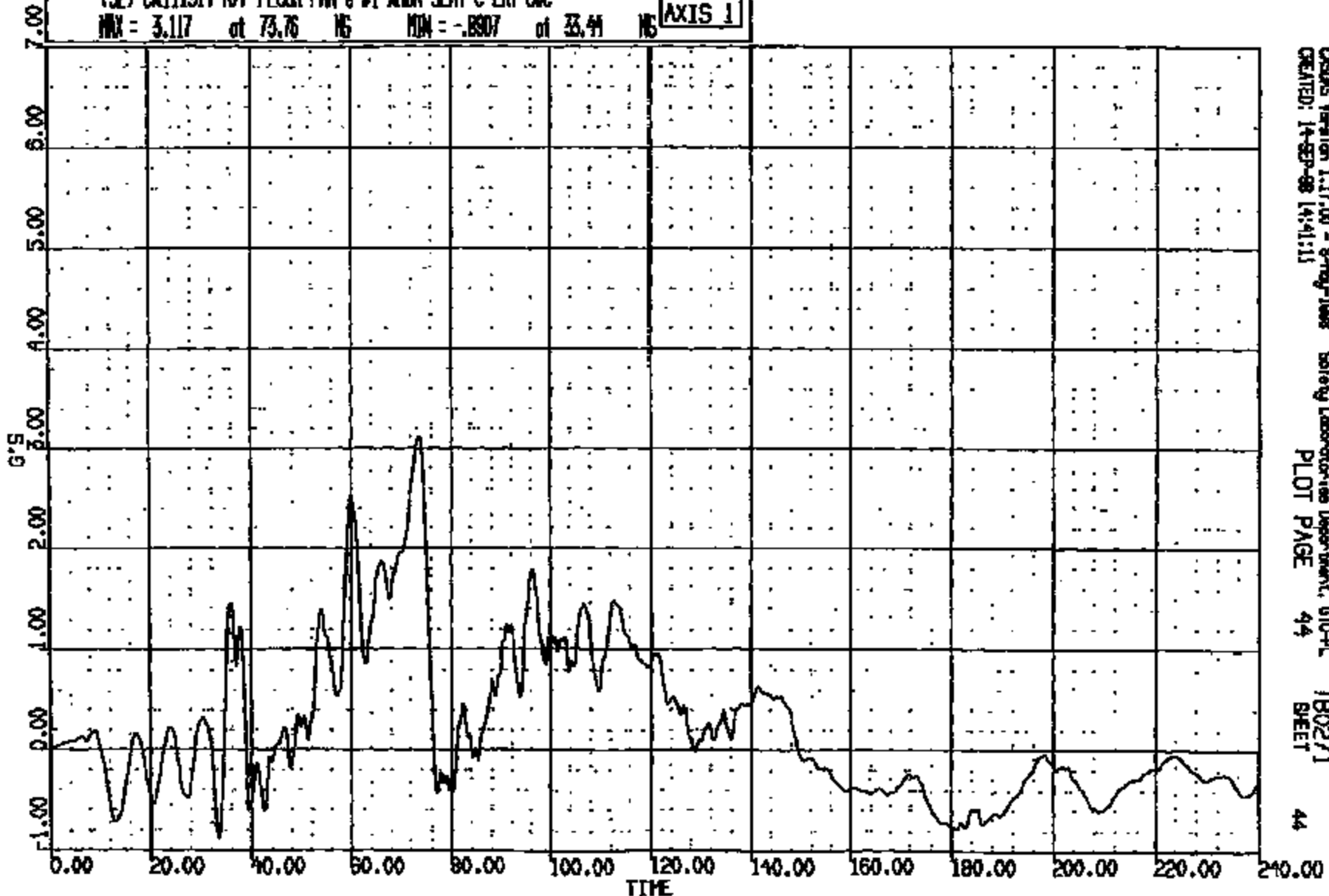


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CRTS 0011191

CR R: 11191 TO: TB0271 DATE: 880914 14:25:41  
2000 D-188

(32) CR11191T R/F FLOOR PAN @ #1 XMR SEAT C LAT 60C  
MAX = 3.117 at 73.76 MS MIN = -.8907 at 33.41 MS **AXIS 1**



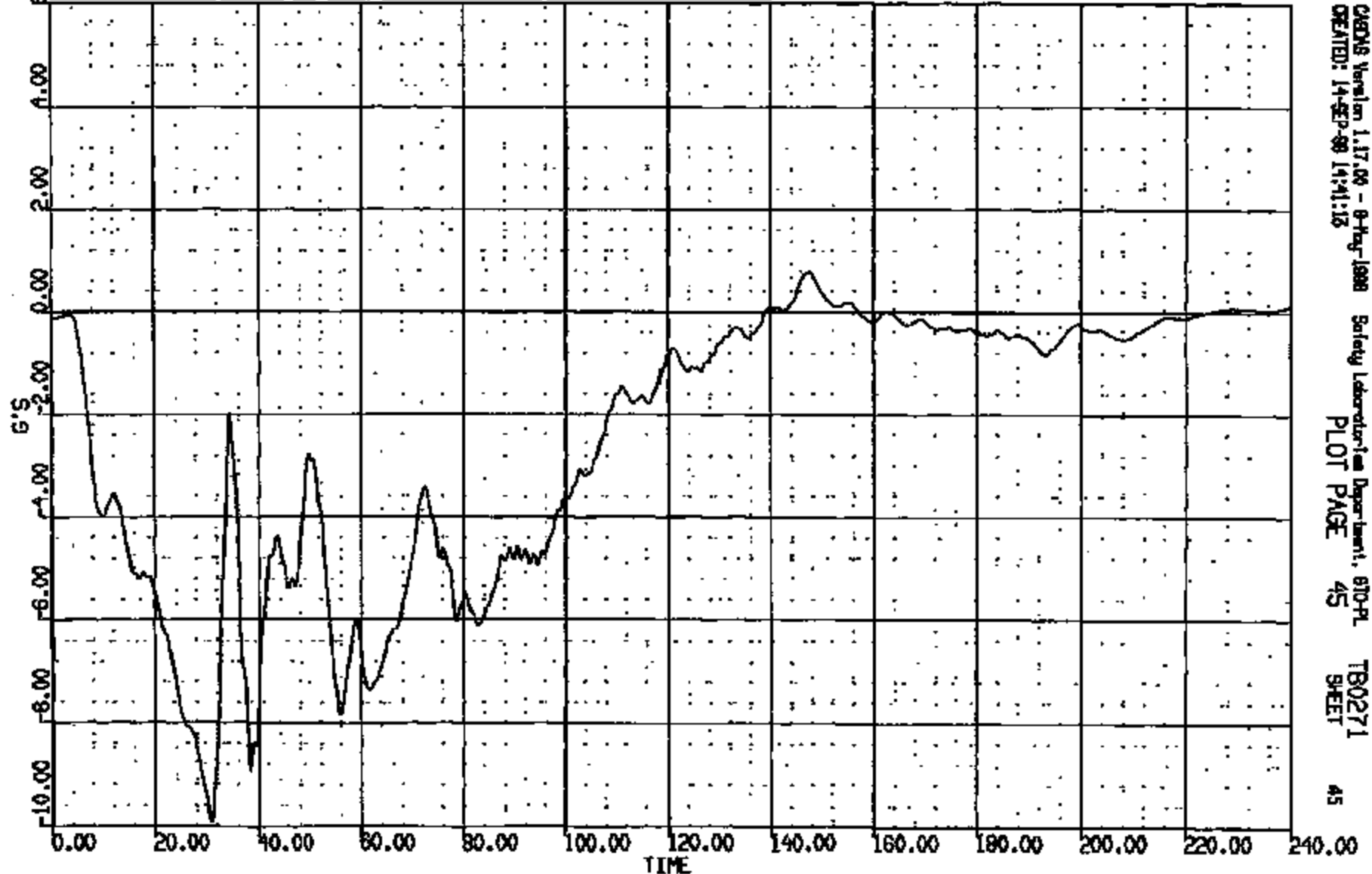
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CR15 0011191

CR #: 11191 TO: TB0271 DATE: 980914 14:25:41  
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(33) CR1191T L ROCKER @ B-PILLAR LONG GDC  
MAX = 0.7785 at 147.1 MS MIN = -9.938 at 30.98 MS

AXIS 1/



CRDS Version 1.17.00 - 8-Aug-1998 Safety Laboratory Department, 810-PL  
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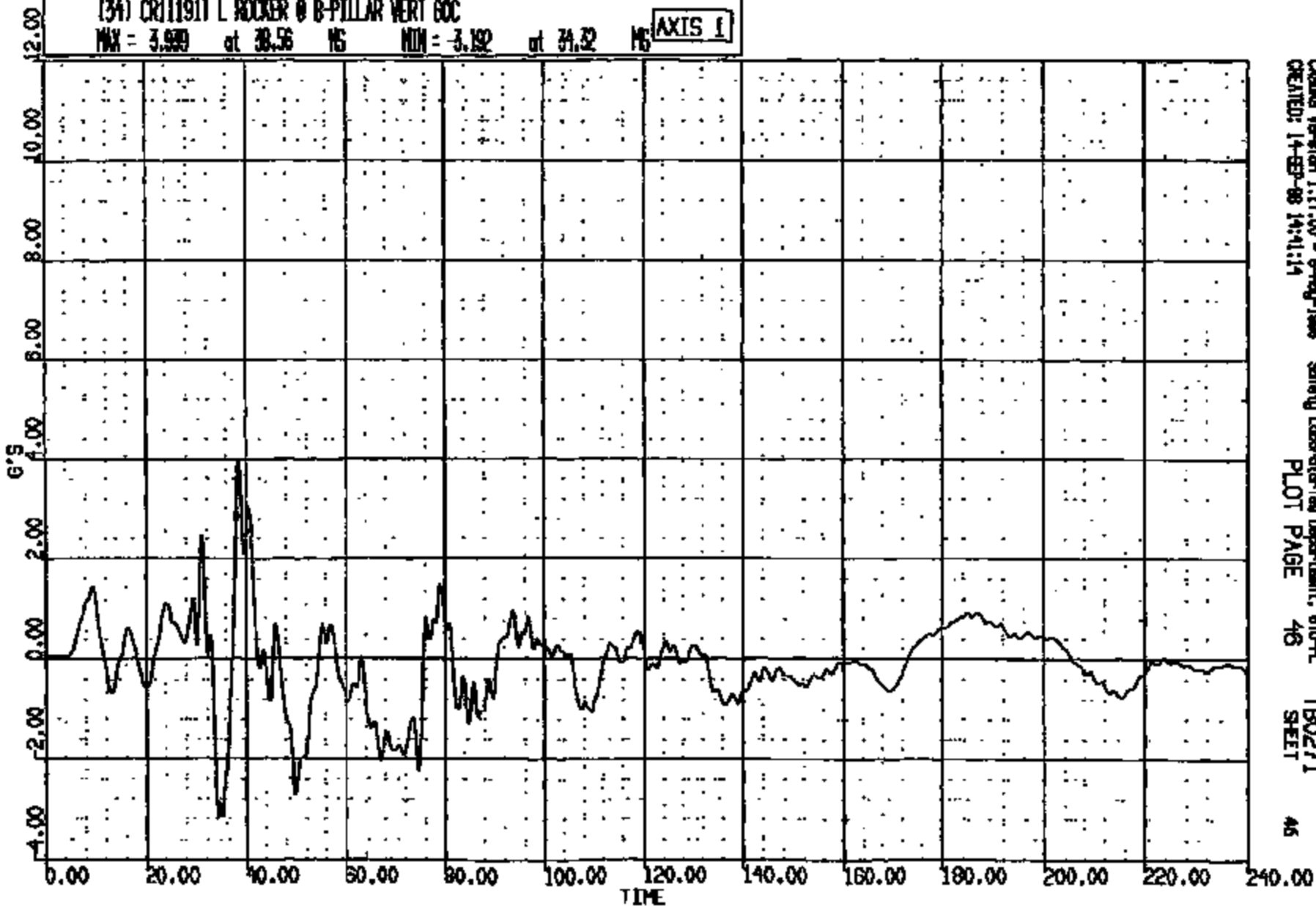
CRIS 001191

CR R: 11191 TO: TB0271 DATE: 080914 14:23:41  
2000 D-189

(34) CR11191T L ROCKER @ B-PILLAR VERT GOC

MAX = 3.989 at 38.56 MS MIN = -3.192 at 34.32 MS

AXIS 1



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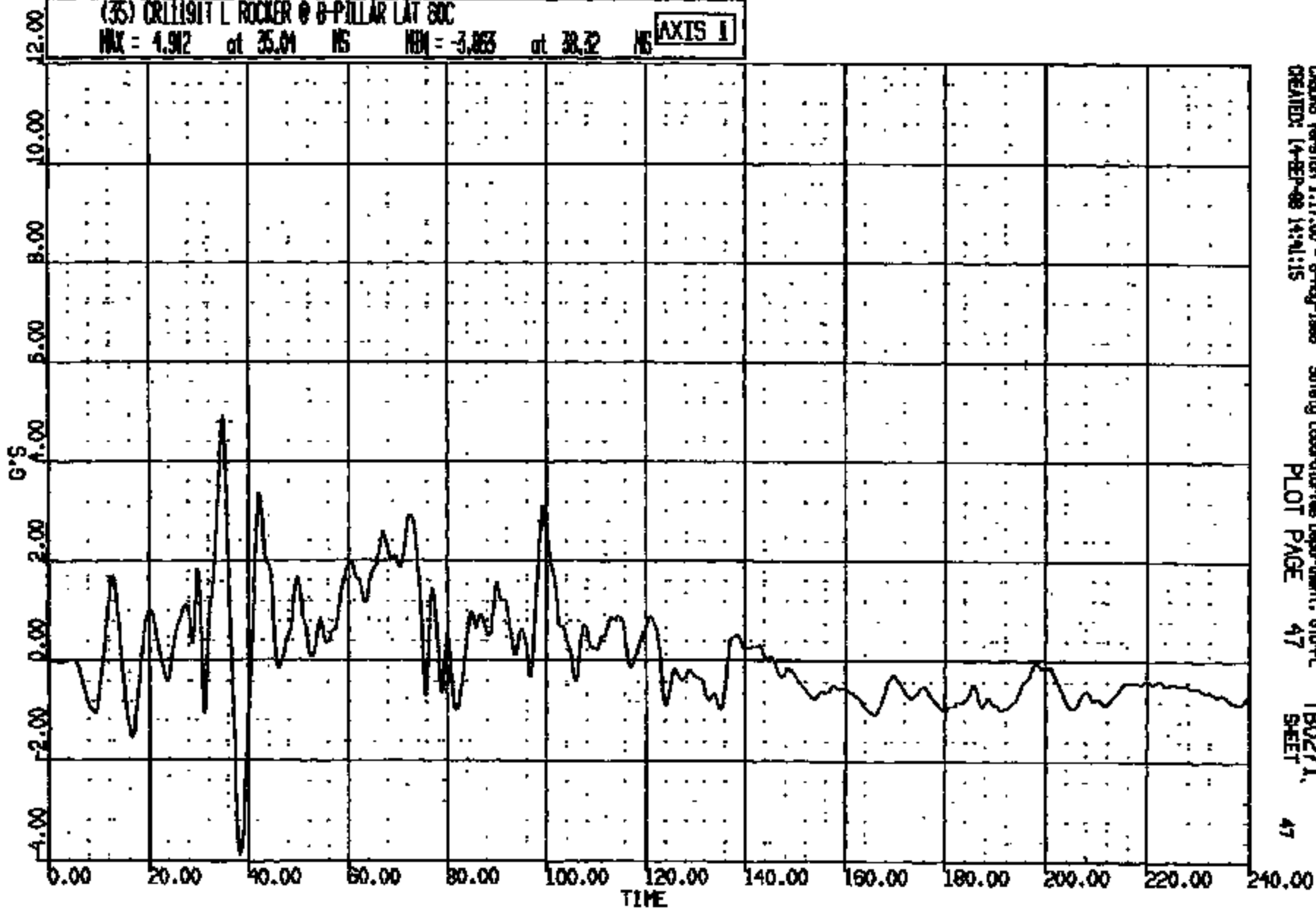
CRTS 0011191

CR R: 11191 TO: TB0271 DATE: 880914 14:23:41  
2000 D-198

(35) ORL1917 L ROCKER @ B-PILLAR LAT SOC

MAX = 4.912 at 35.01 MS MIN = -3.863 at 38.32 MS

AXIS 1



CRSIS Version 1.17.00 - 8-May-1988  
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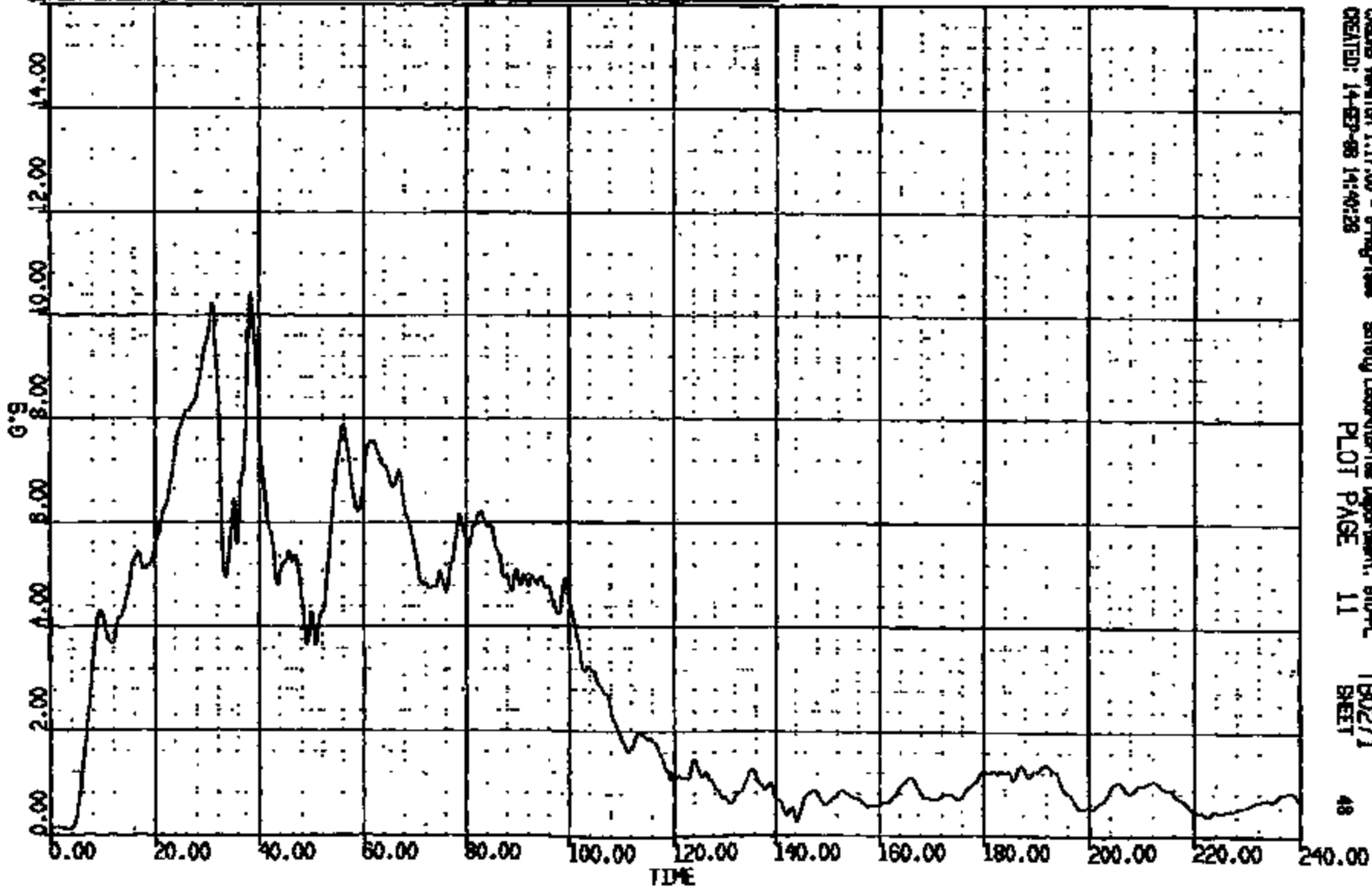
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CR R: 11191 TO: TB0271 DATE: 090014 14:28:41  
2000 D-198

(10001) CR1191T L ROCKER @ B-PILLAR RES 60C  
MAX = 10.42 at 38.40 NS MIN = 0.937E-01 at 3.000 NS **AXIS 1**



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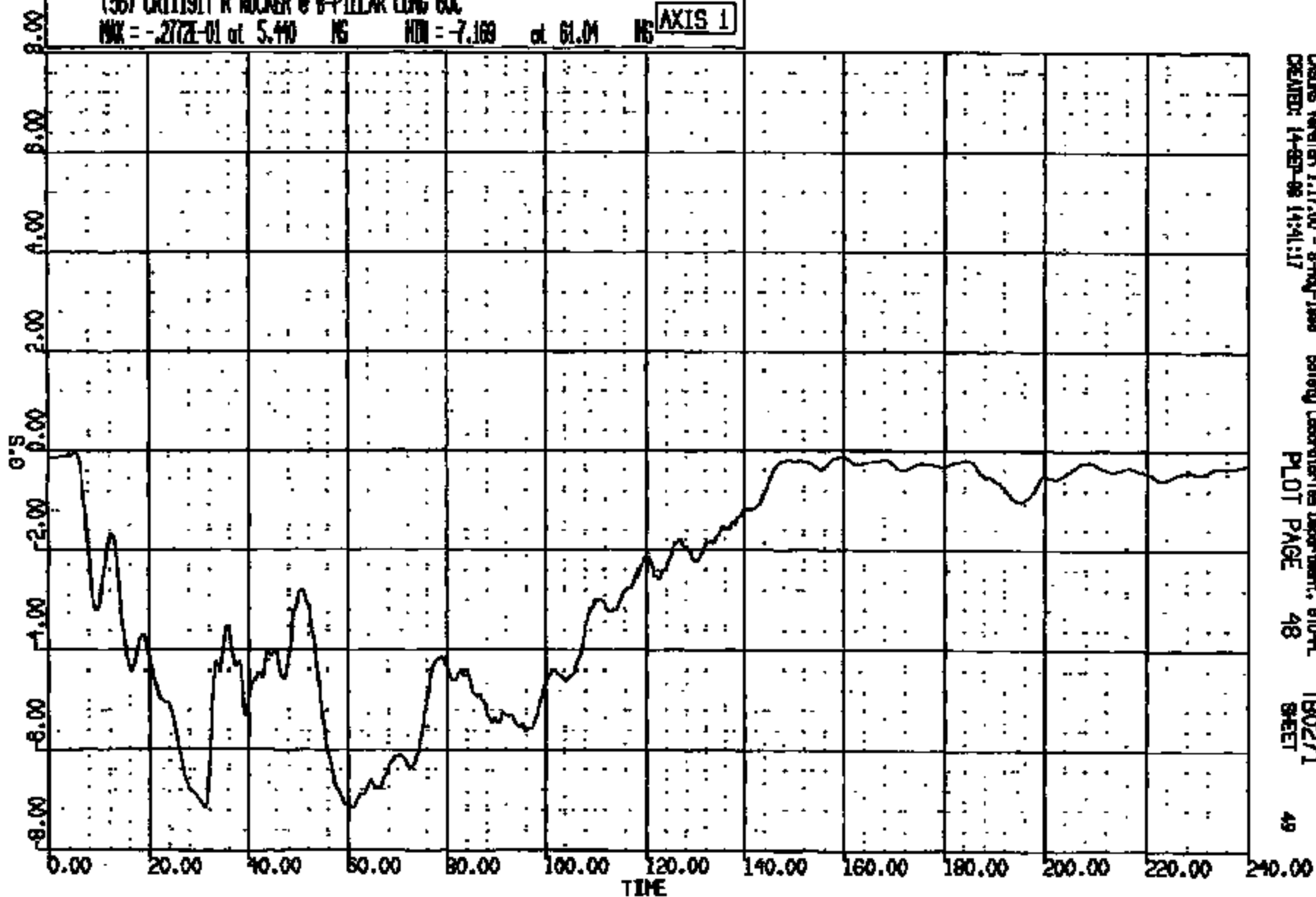


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2000 D-186

(35) CR1191T R WICKER @ B-PILLAR LONG 60C

PKR = -2.772E-01 at 5.440 NS MIN = -7.169 at 61.04 NS

AXIS 1



CRSUS Version 1.17.00 - 8-May-1998 Safety Laboratories Department, 870-4L T80271  
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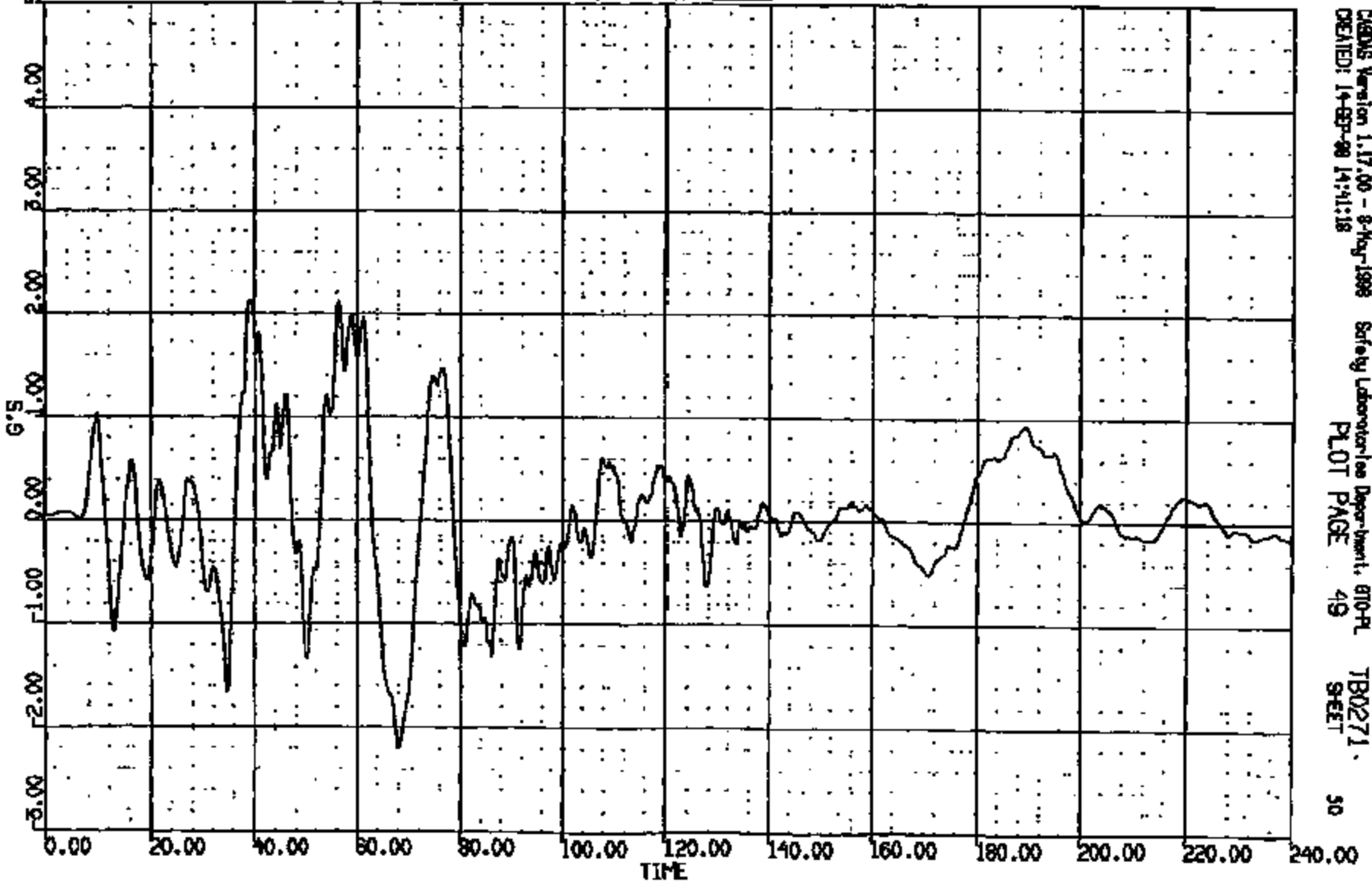
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2000 D-188

(37) CR1191T R ROCKER # B-PILLAR VERT GOC

MAX = 2.129 at 56.40 MS MIN = -2.212 at 68.08 MS

AXIS 1



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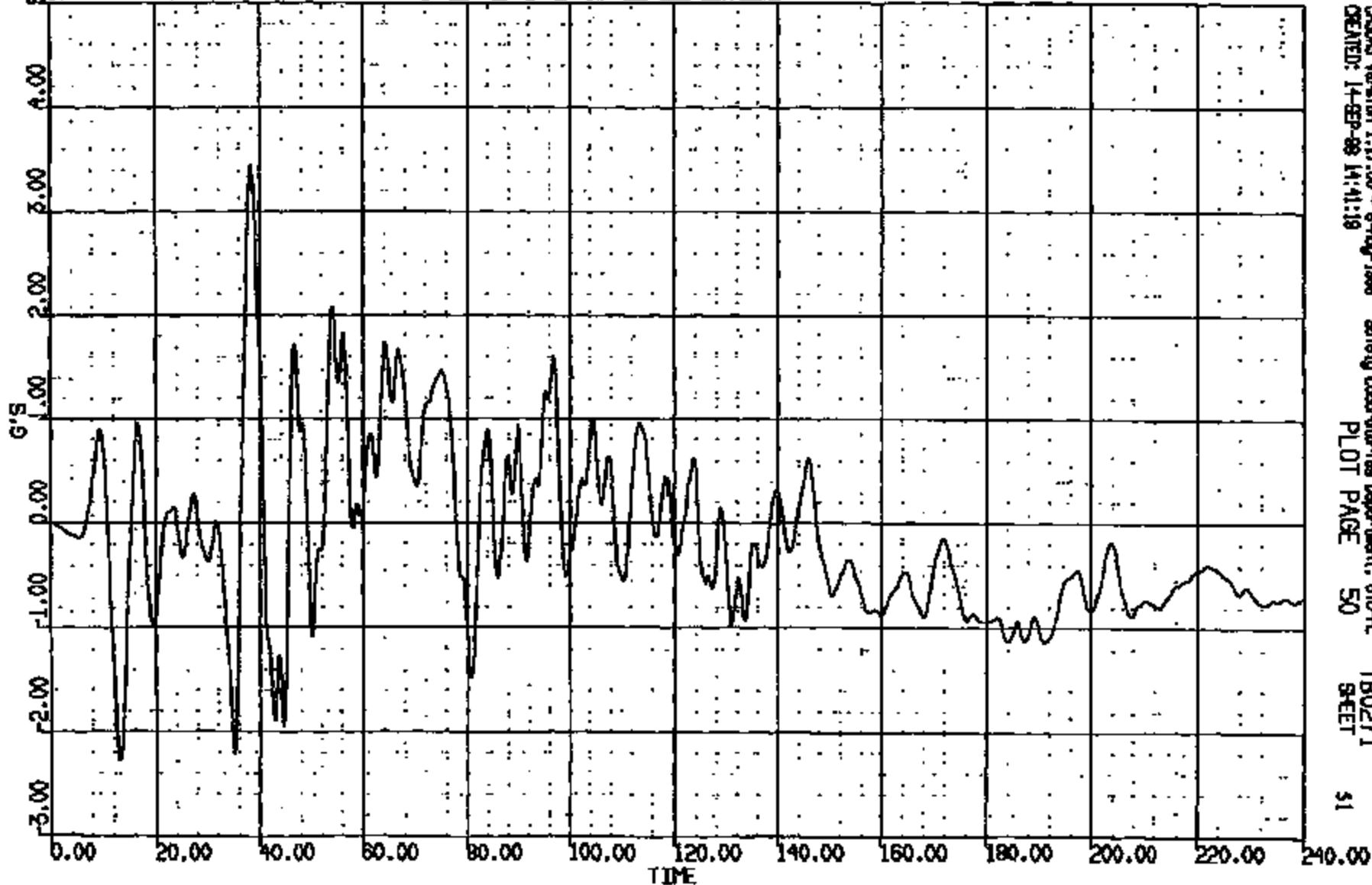
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CRTS 0011191

CR R: 11191 TO: TB0271 DATE: 980914 14:23:41  
2000 D-186

(38) CR1191T R WOCKER B B-PILLAR LAT 60C  
MAX = 3.450 at 38.21 NS MIN = -2.290 at 13.12 NS **AXIS 1**

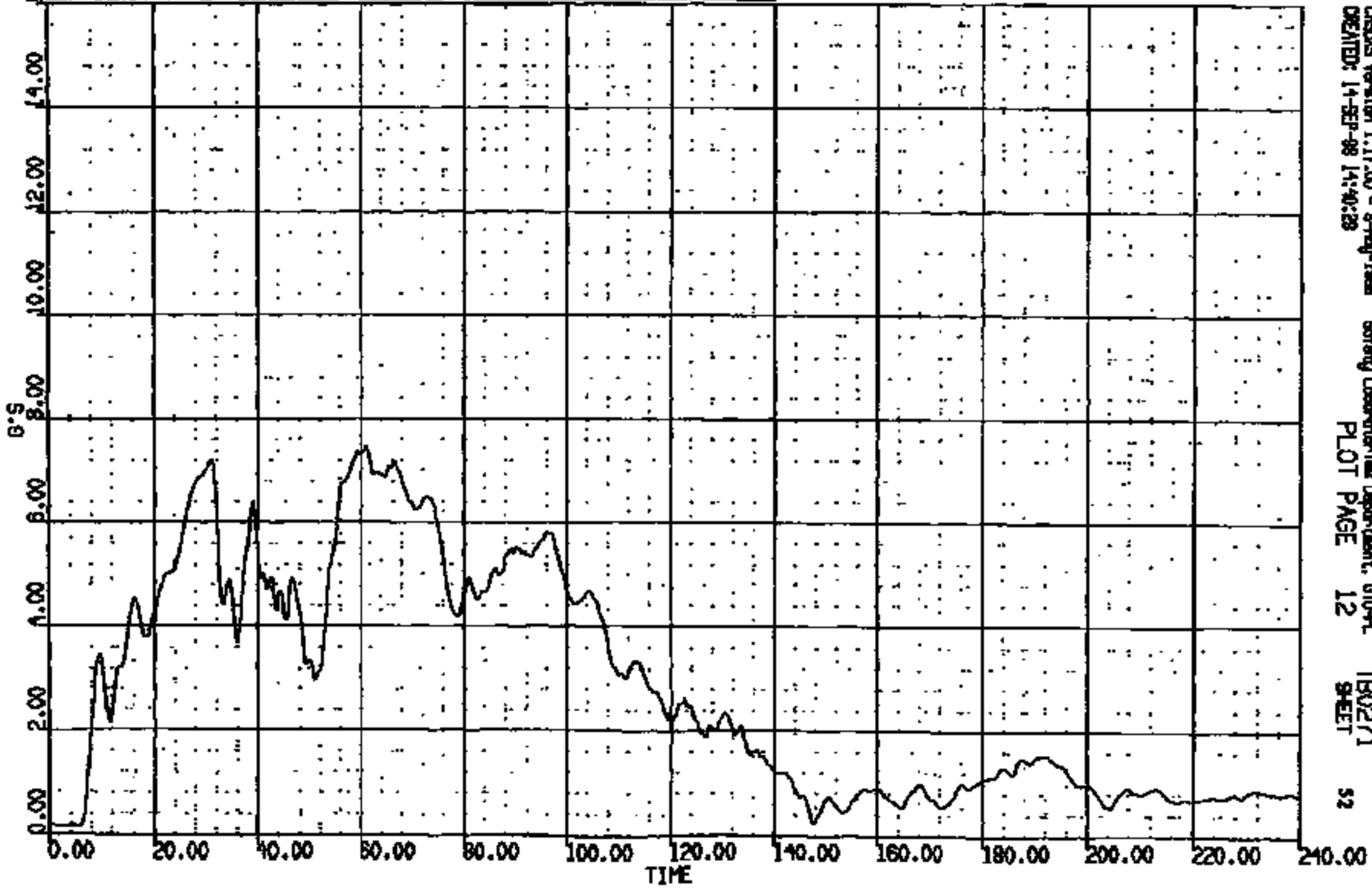


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CR R: 11191 TO: TB0271 DATE: 990914 14:23:41  
2000 D-199

(10002) CRIT191T R ROCKER @ B-PILLAR RES 60C  
MAX = 7.470 of 61.20 MS MIN = 0.1476 of 5.680 MS **AXIS 1**

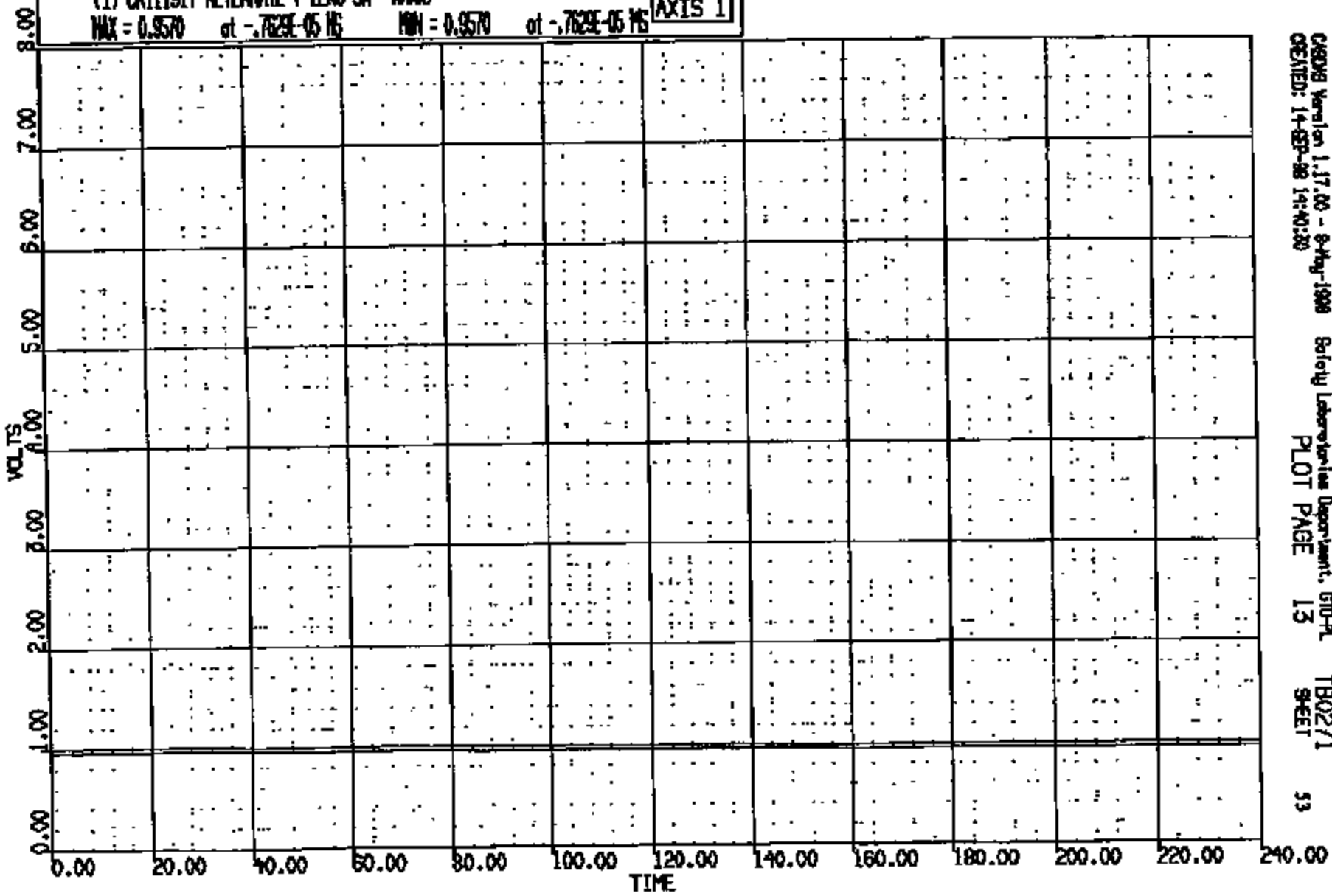


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CRTS 0011191

CR R: 11121 TO: T80271 DATE: 080214 14:23:41  
2000 D-199

(1) CRITISIT ALTERNATE T-ZERO SW 4000C  
MAX = 0.9570 at -.7629E-05 MS MIN = 0.9570 at -.7629E-05 MS **AXIS 1**

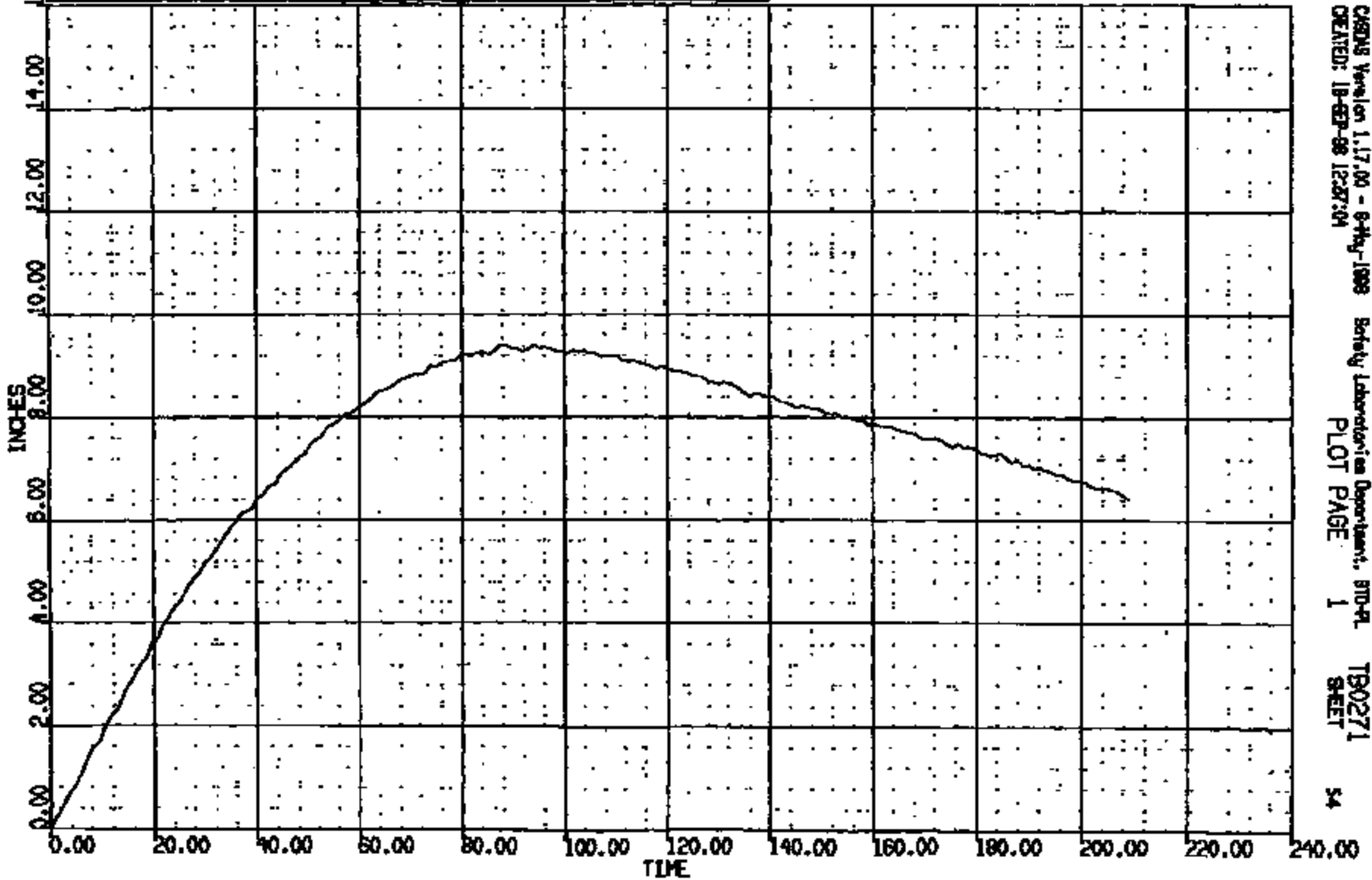


CRIS 001191

CR #: 11191 TO: TB0271 DATE: 980914 14:23:41  
2000 D-198

(0) CR11191 L NRR AT B FLR NRT L END REF LONG DISP  
MAX = 9.408 at 88.48 MS MIN = 0.000E+00 at 0.000E+00 MS

AXIS 1



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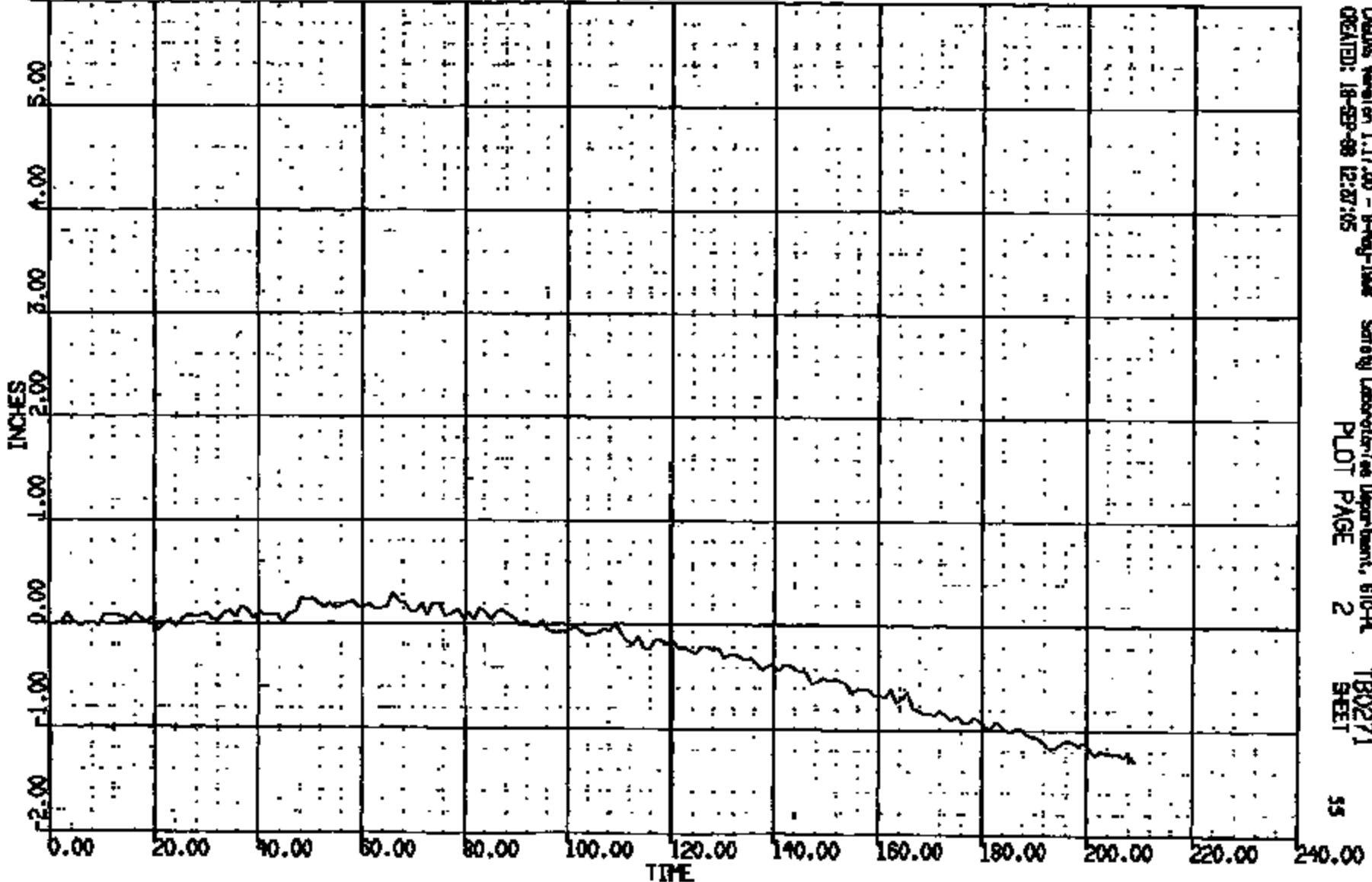
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CR R: 11191 TO: TB0271 DATE: 980914 14:25:41  
2000 D-188

(0) CR11191 L RRR AT B PLR HRT L GND REF VERT DISP  
MAX = 0.2985 at 65.13 MS MIN = -1.294 at 208.9 MS **AXIS 1**

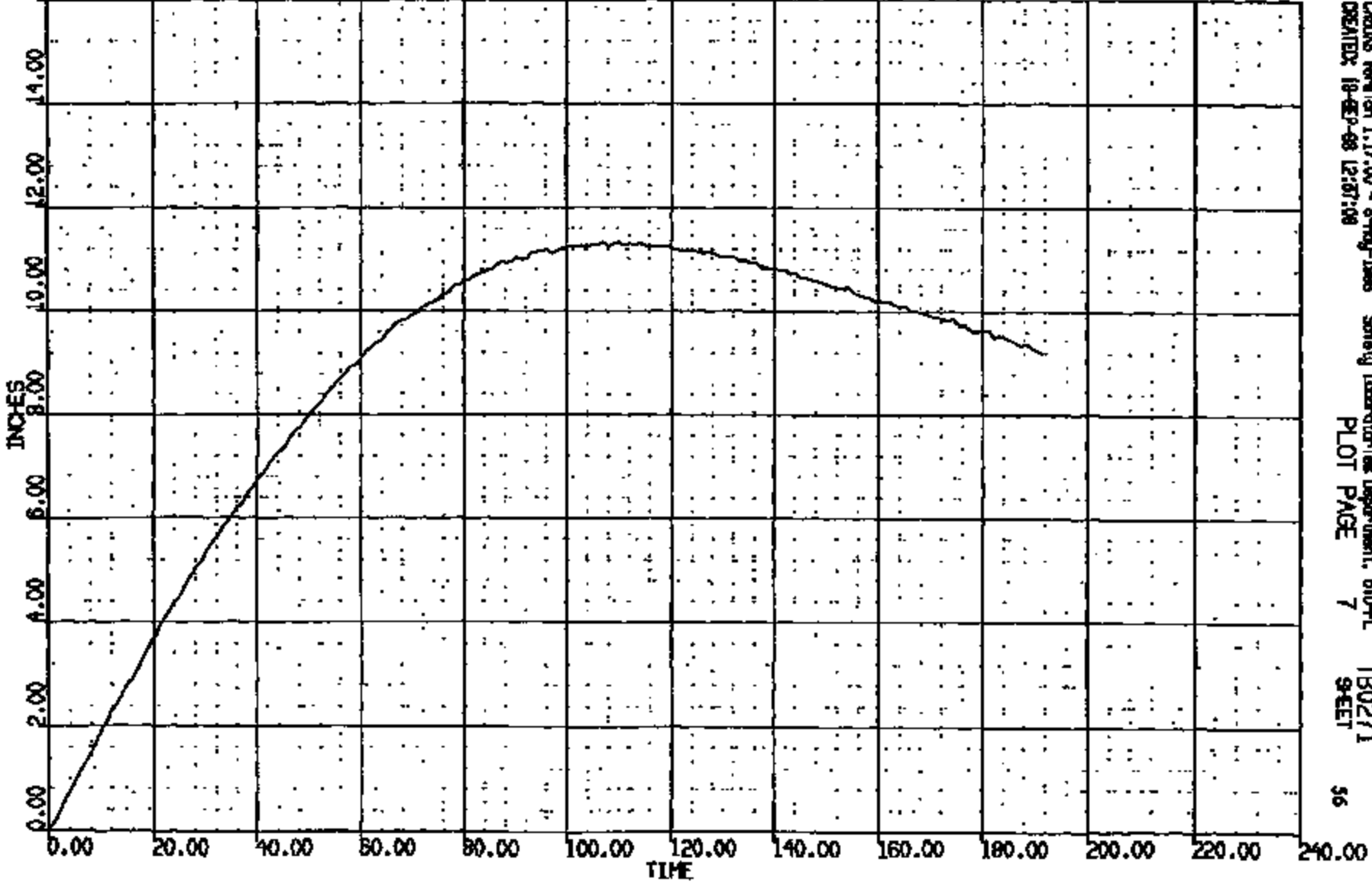


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CRIS 0011191

CR R: 11191 TO: T80271 DATE: 980914 14:25:41  
2000 D-128

(0) CRCL1191 R RWR AT B PLR WRT R GND REF LONG DISP  
MAX = 11.36 at 107.2 MS MIN = 0.000E+00 at 0.000E+00 MS **AXIS 1**



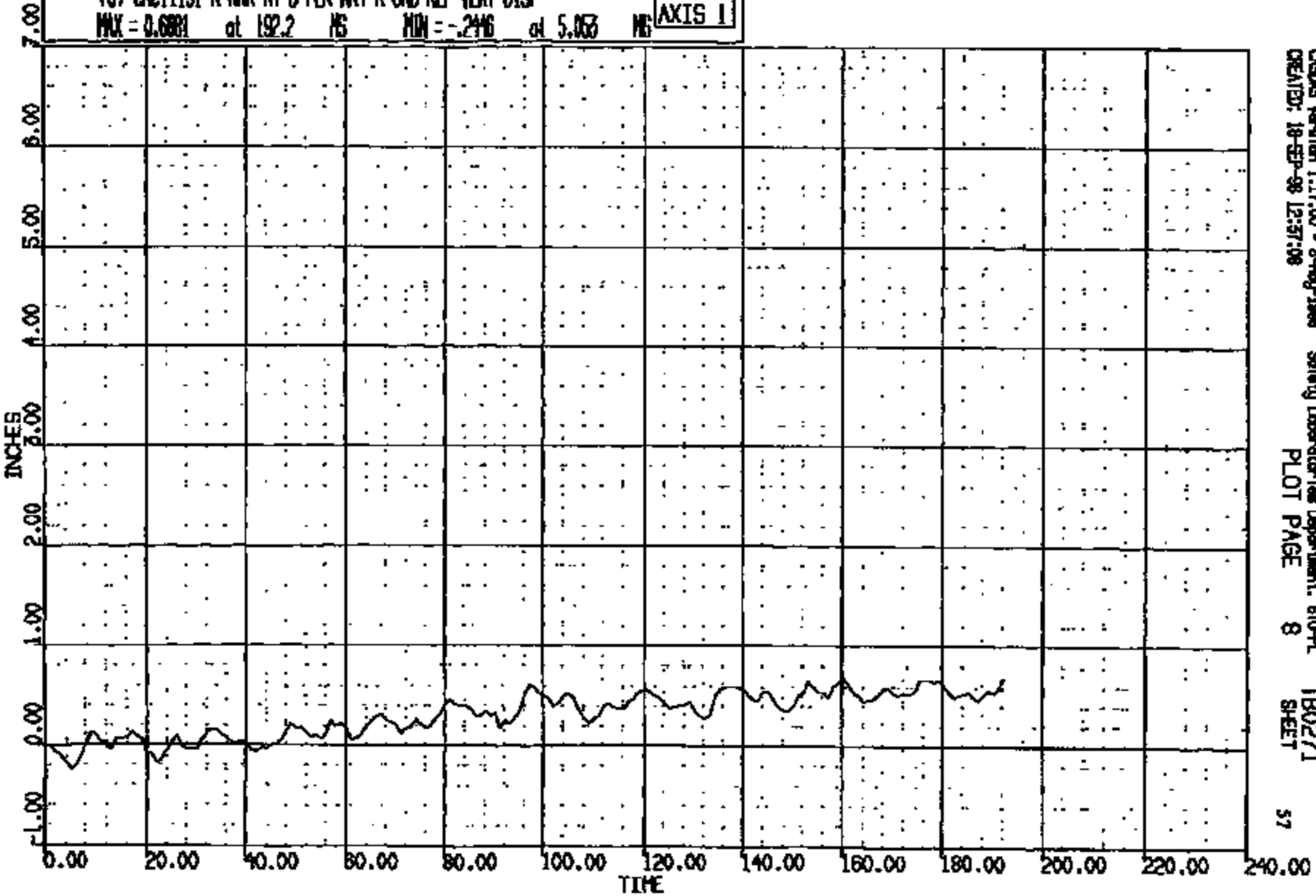
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CRTS 0011191



CR R: 11191 TO: TB0271 DATE: 980914 14:25:41  
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(0) CR011191 R RWR AT B PLR WRT R GND REF VERT DISP  
MAX = 0.6881 at 192.2 MS MIN = -0.2446 at 5.063 MS **AXIS 1**



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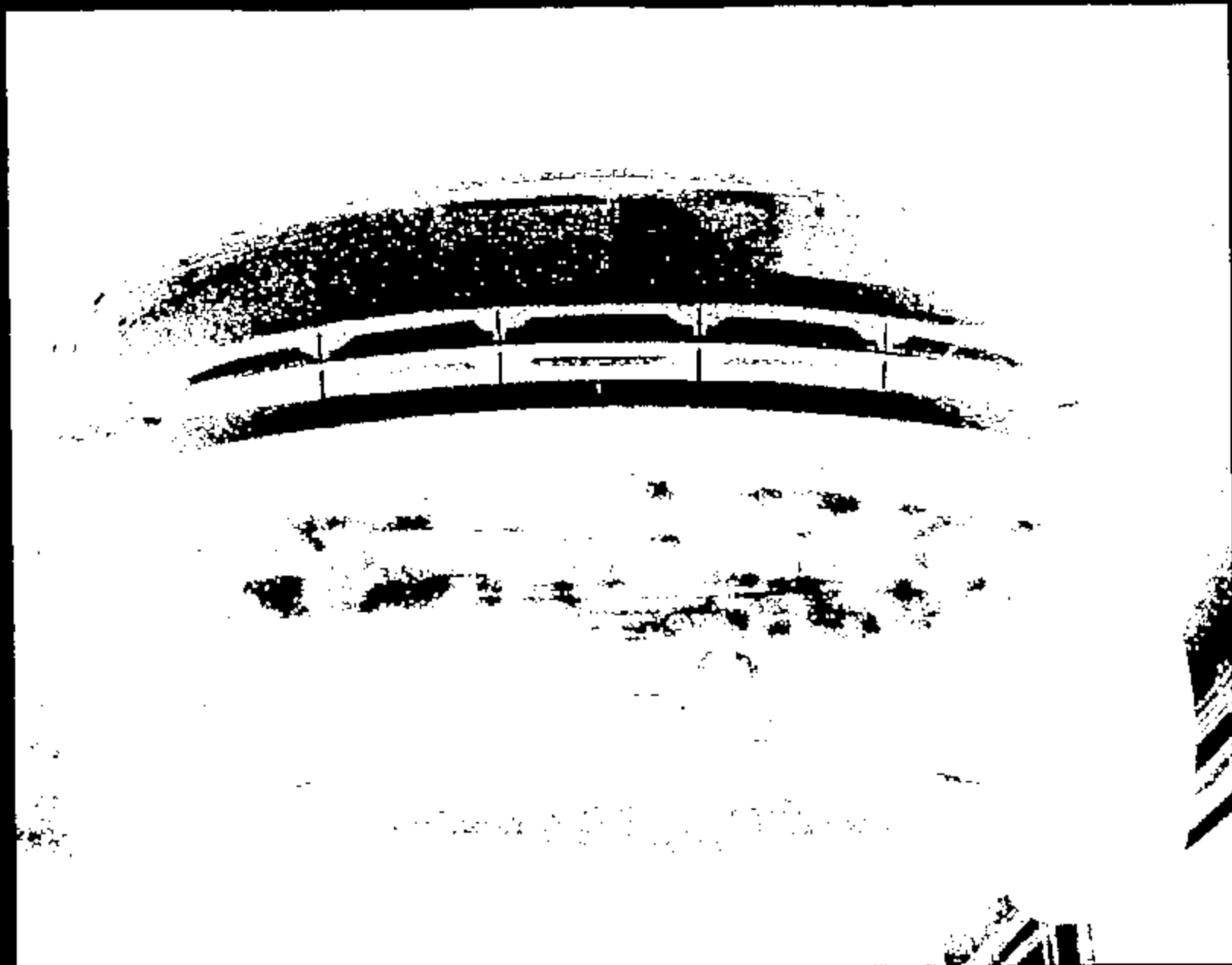


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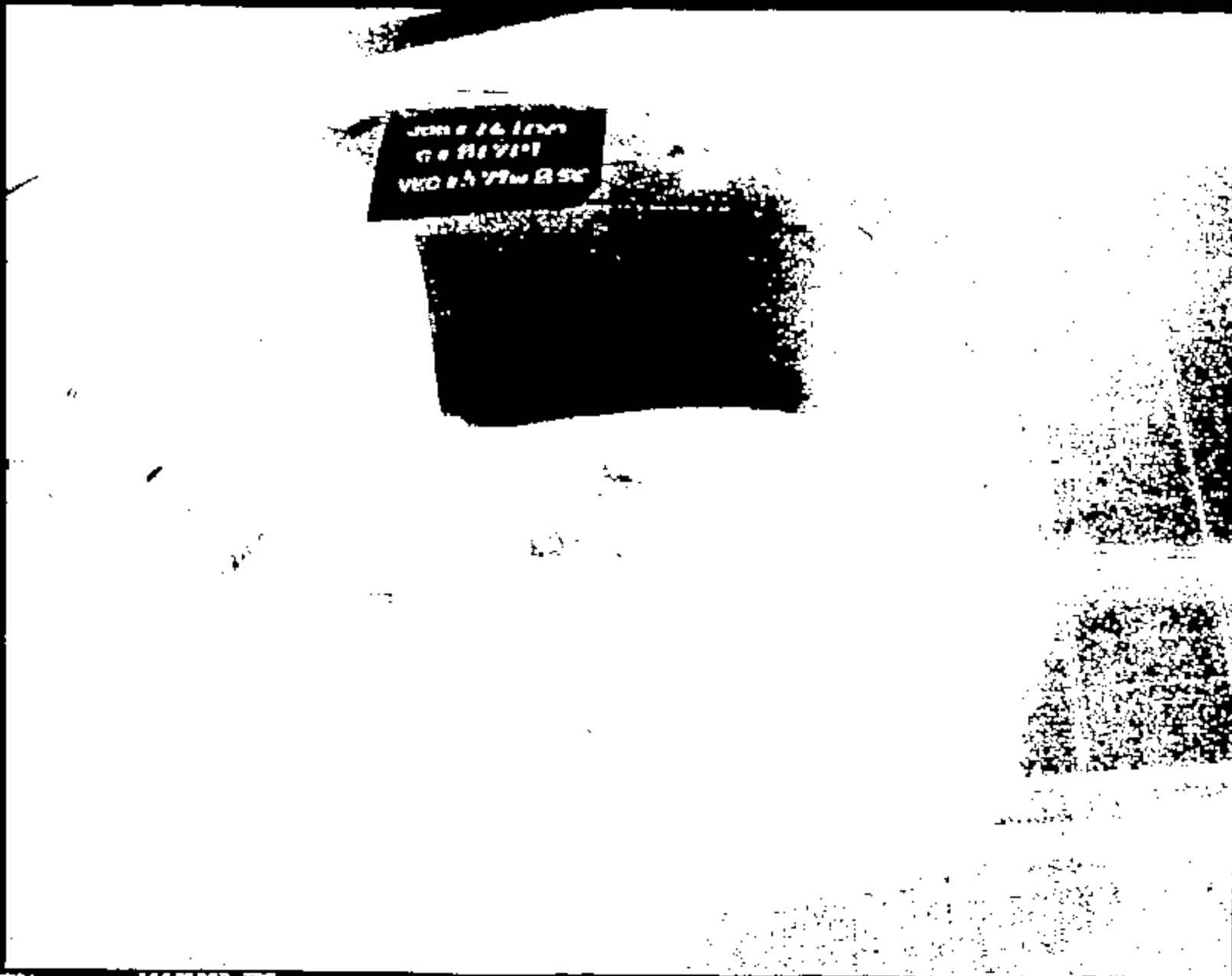
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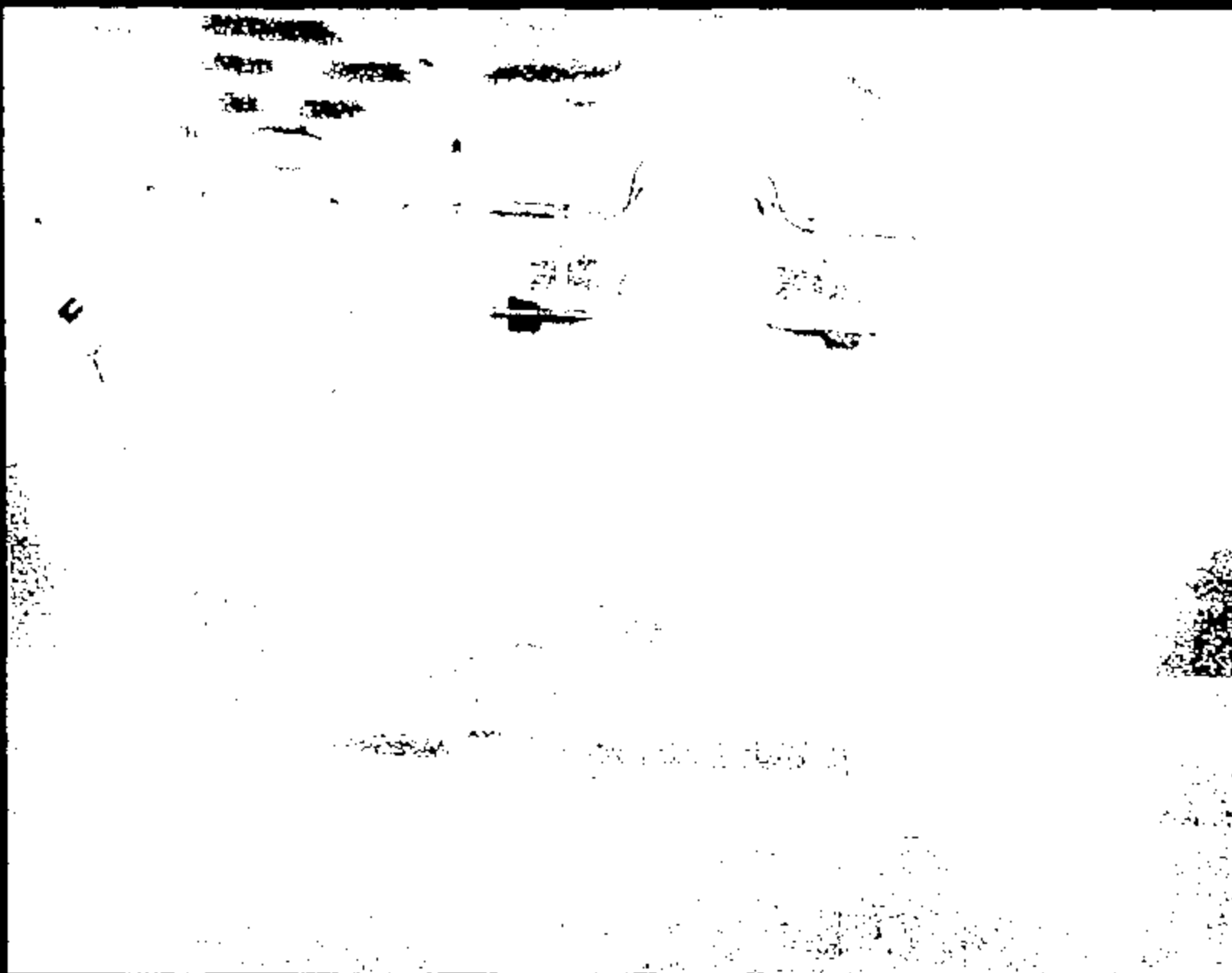
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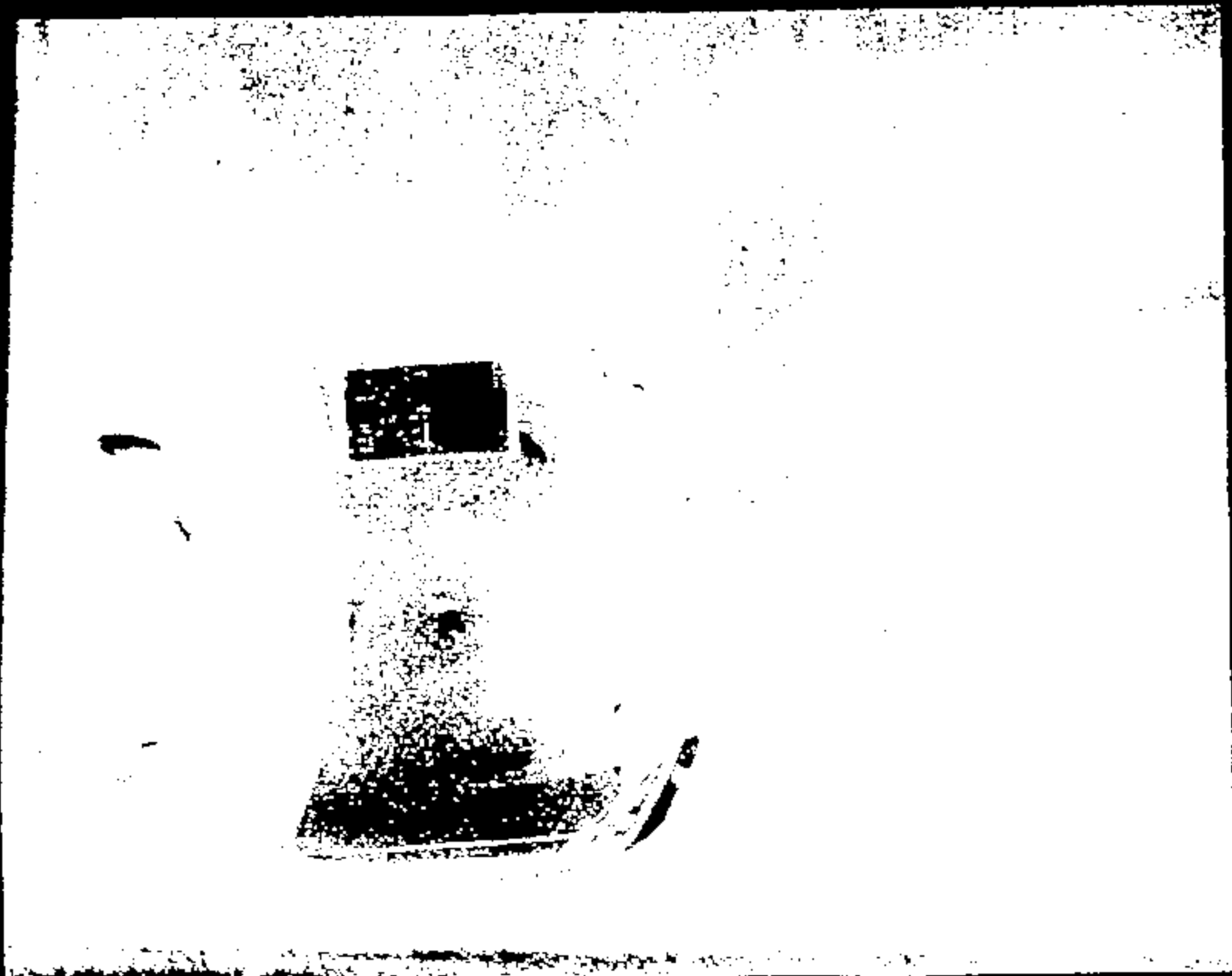
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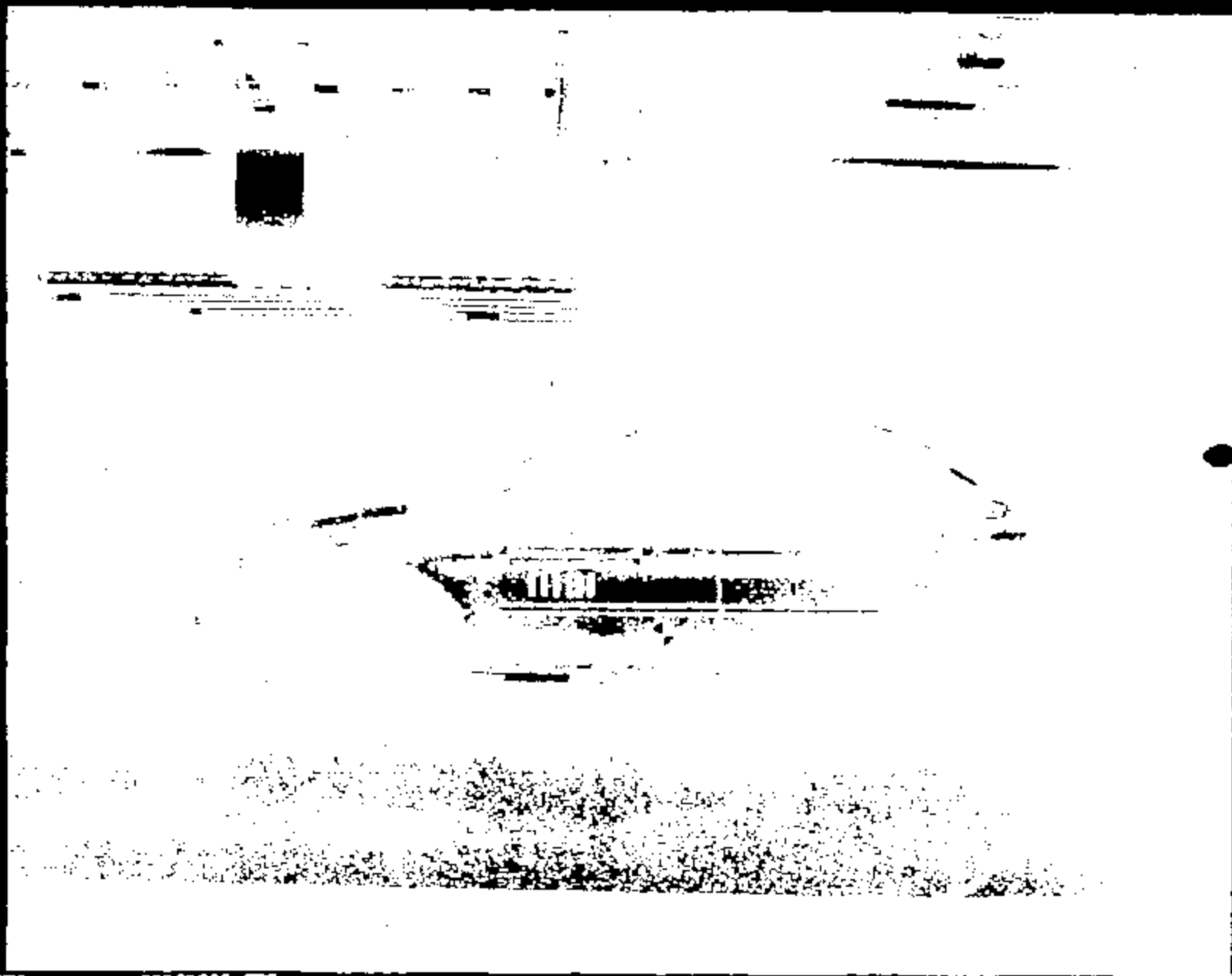
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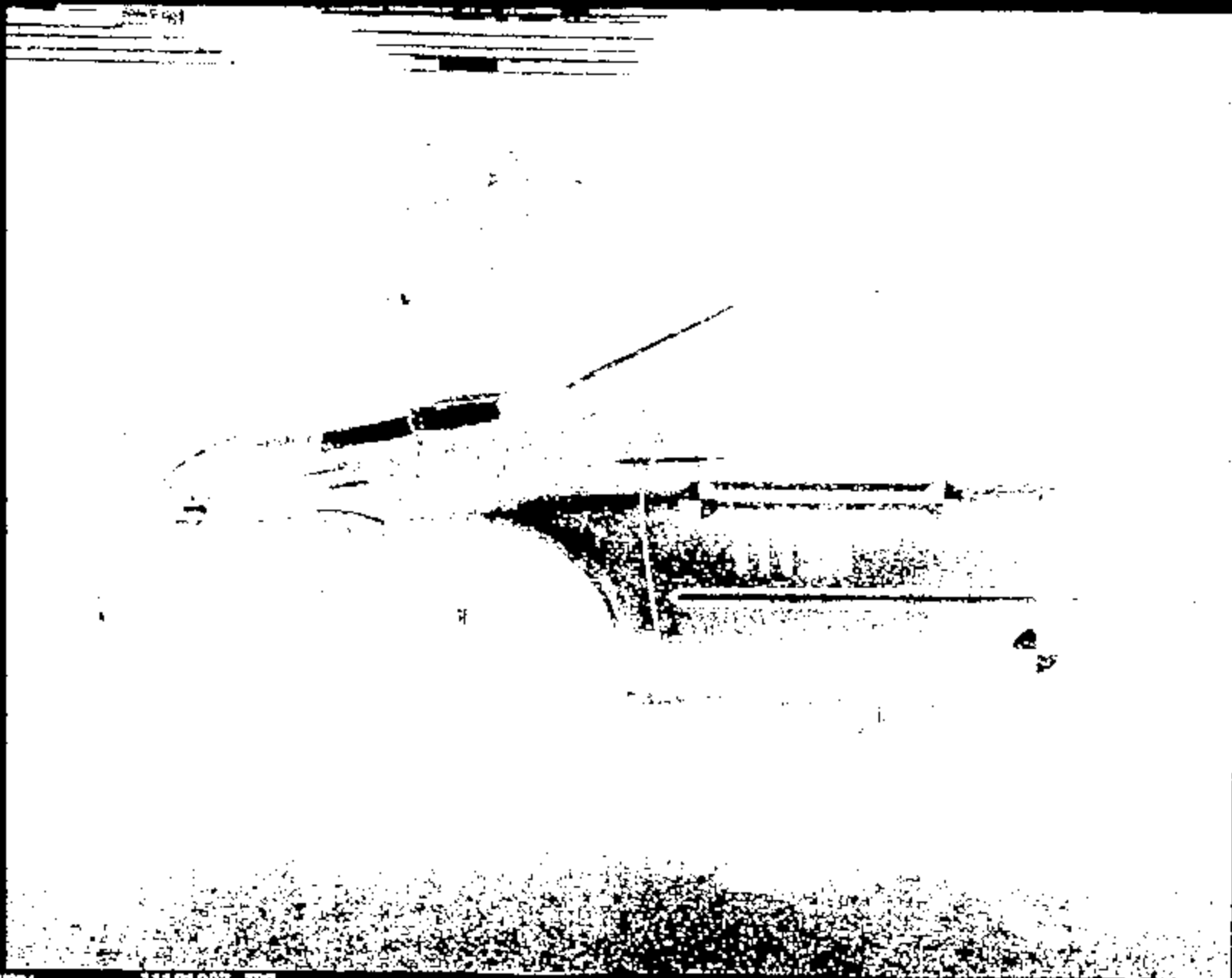
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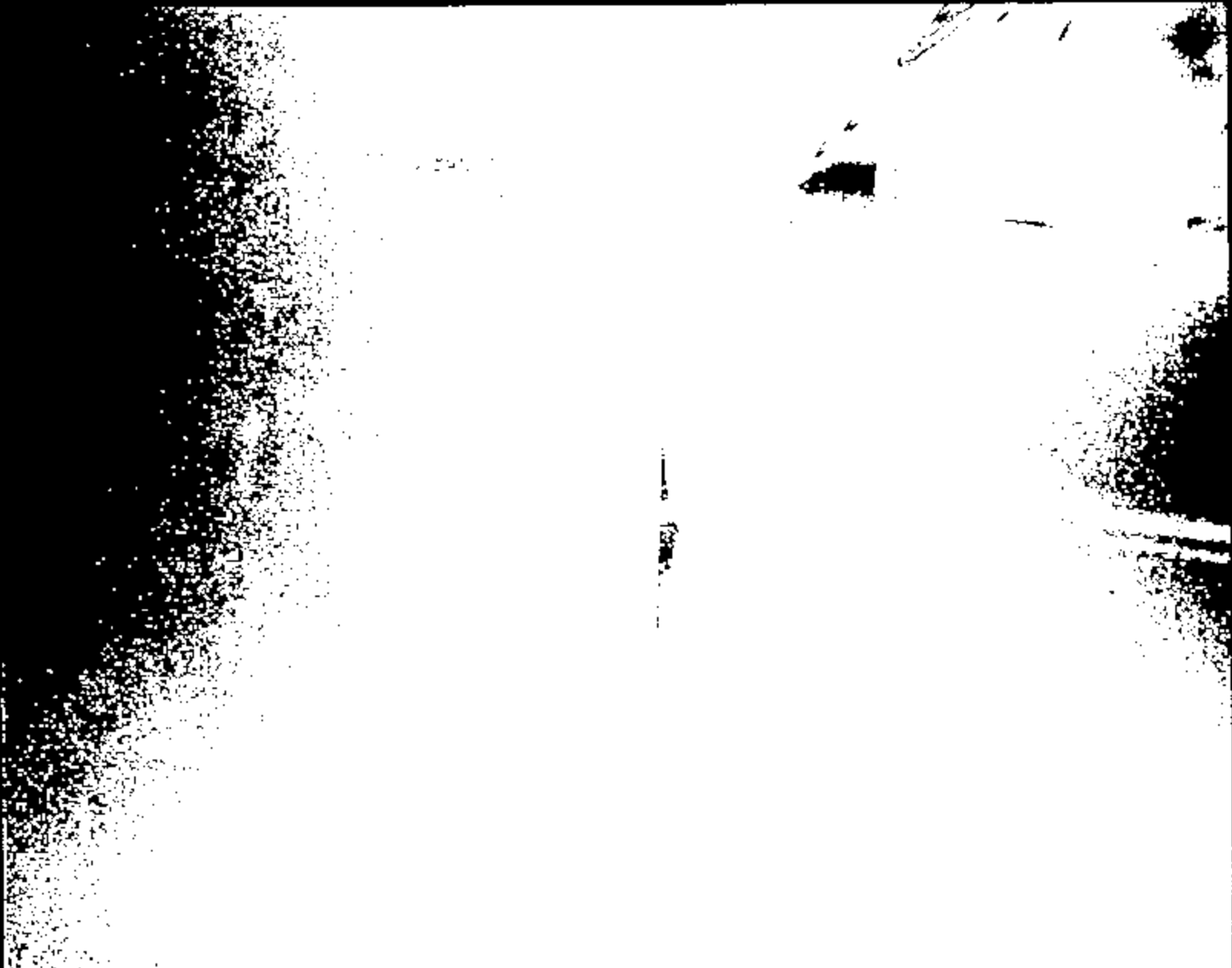
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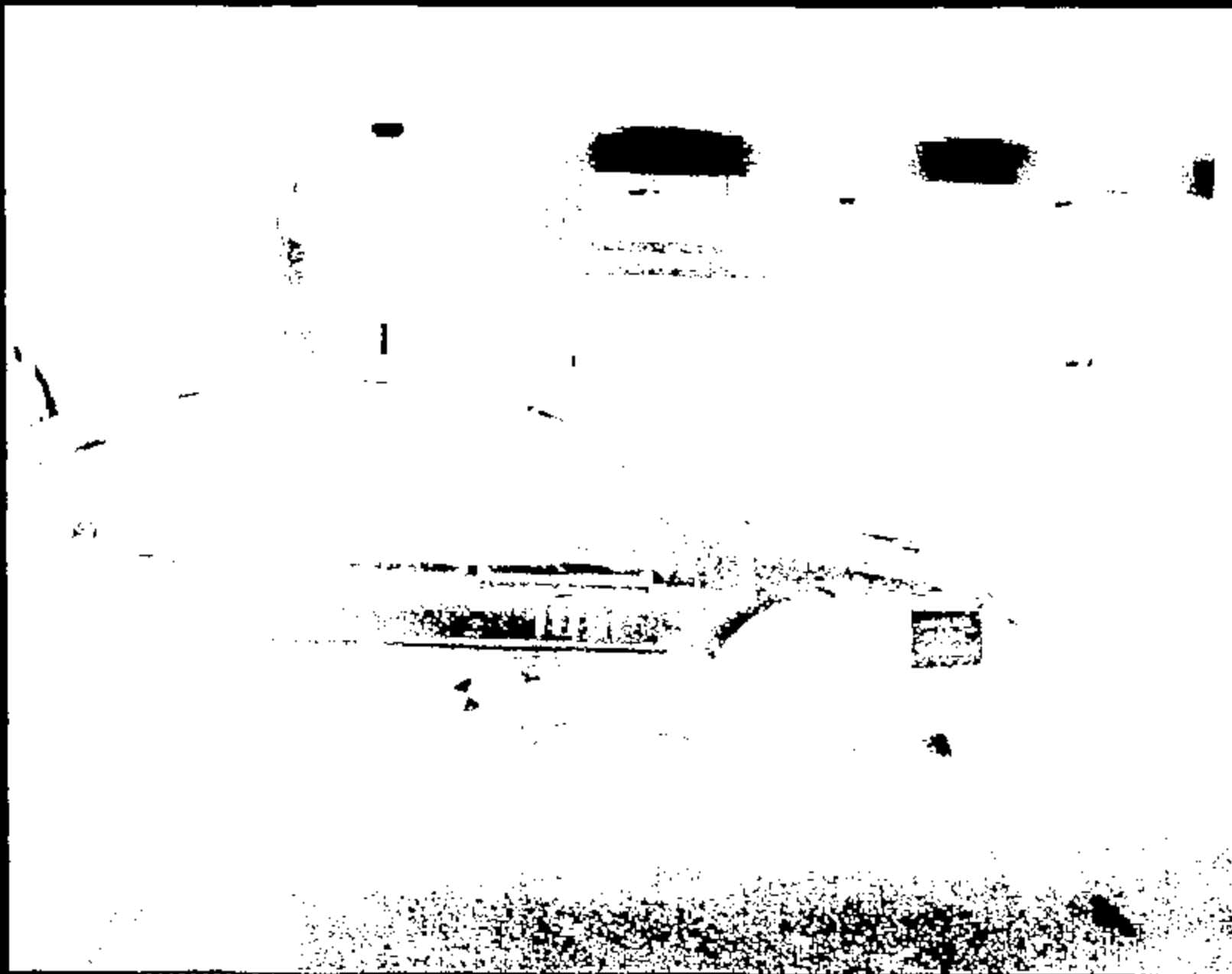




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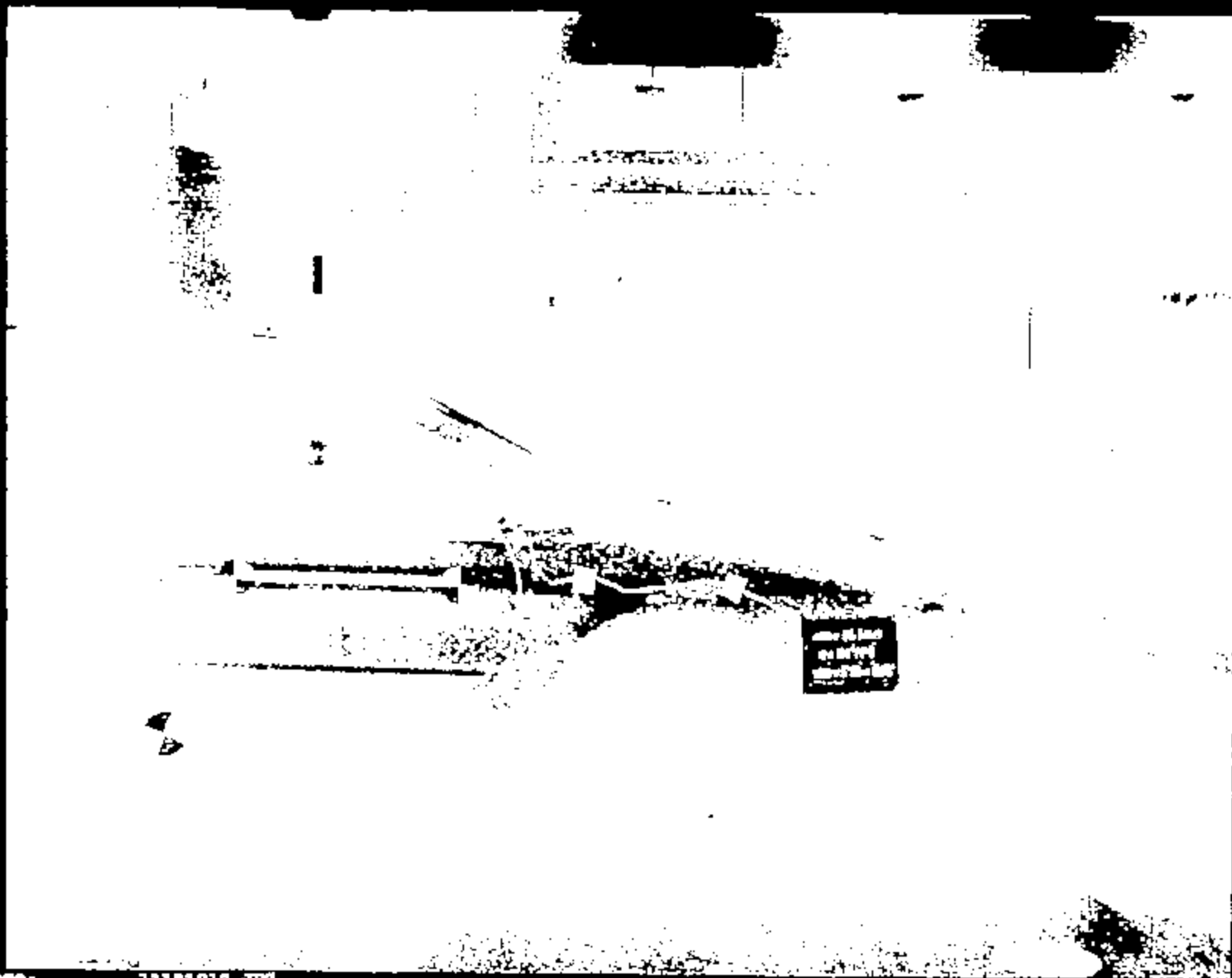
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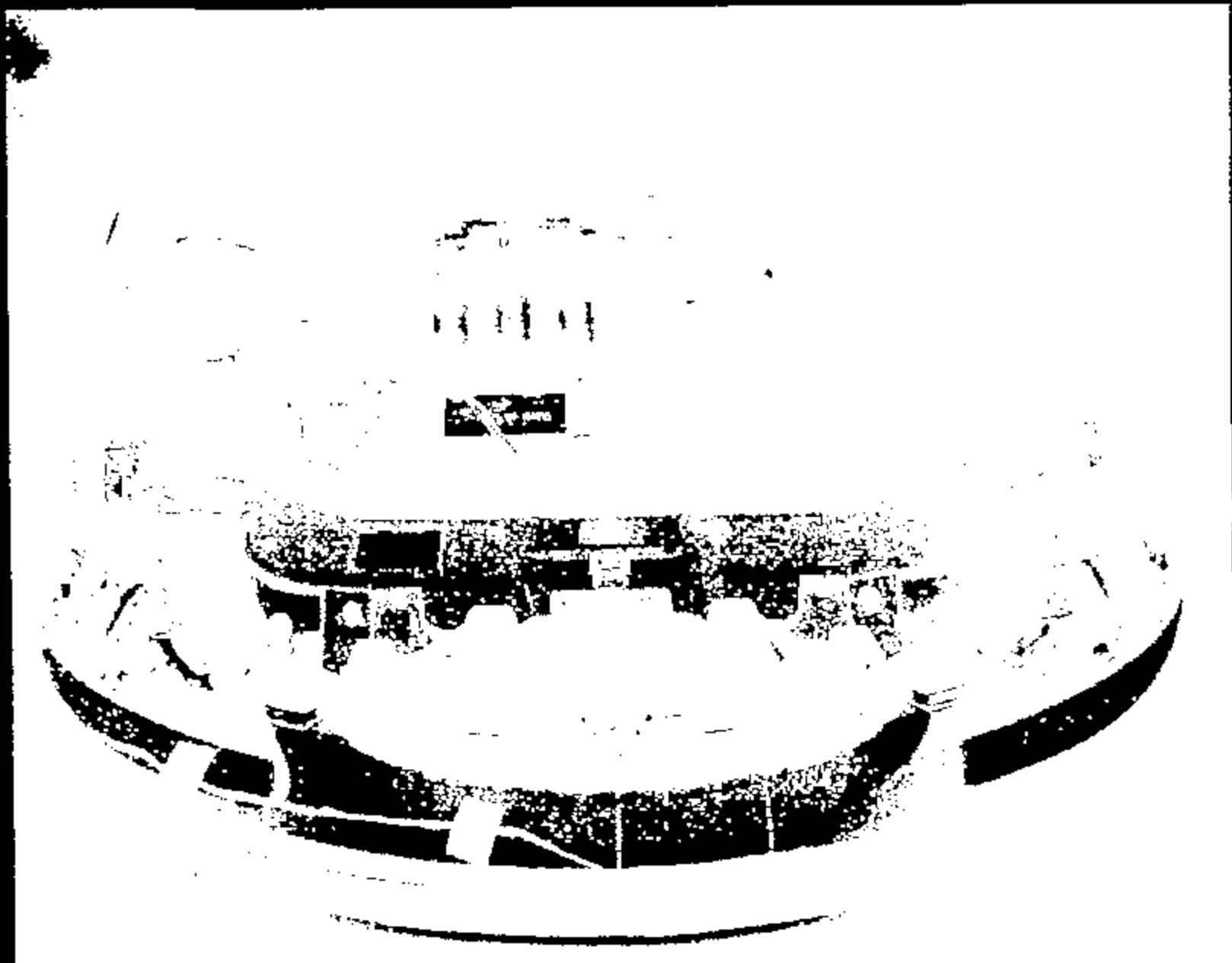
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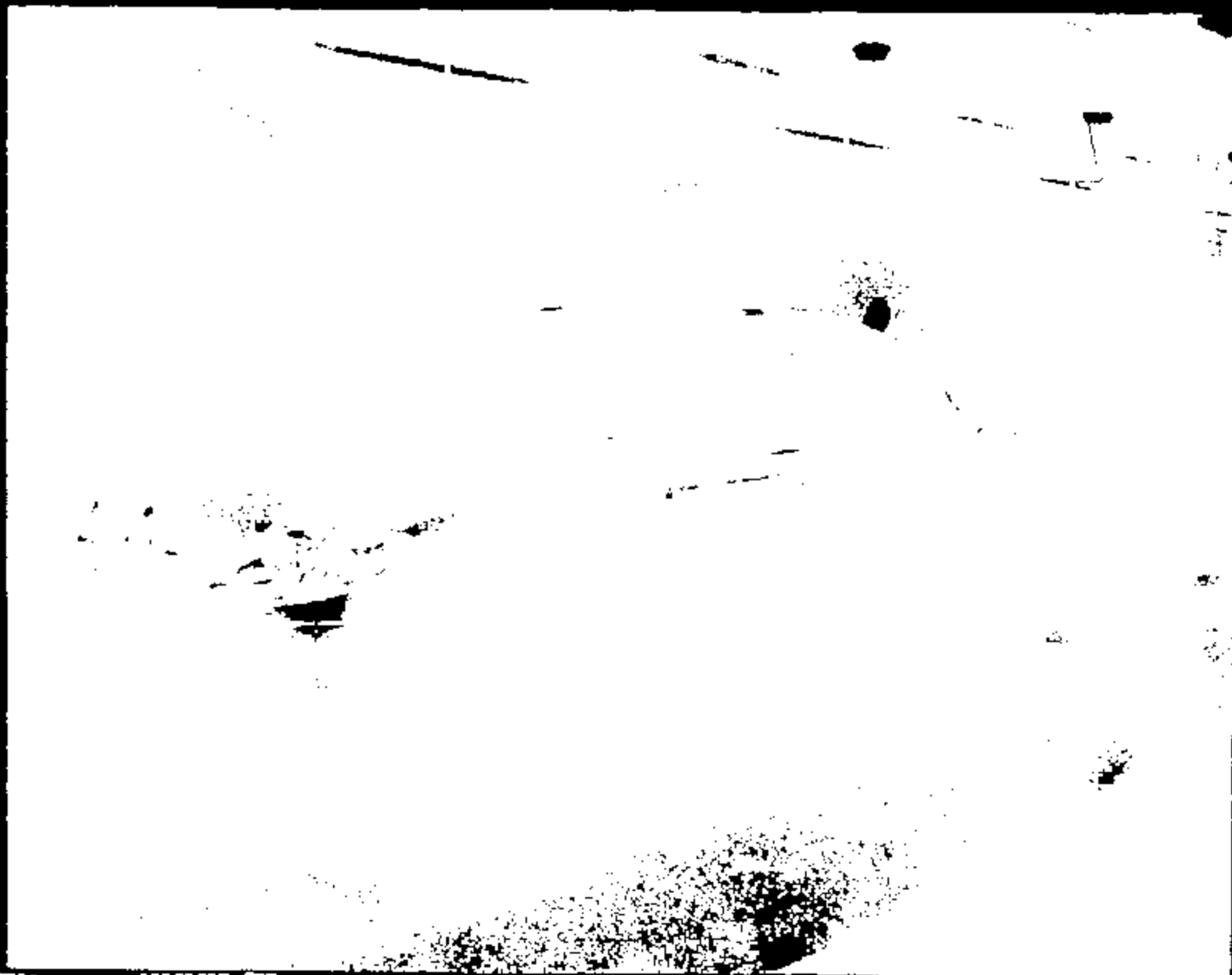




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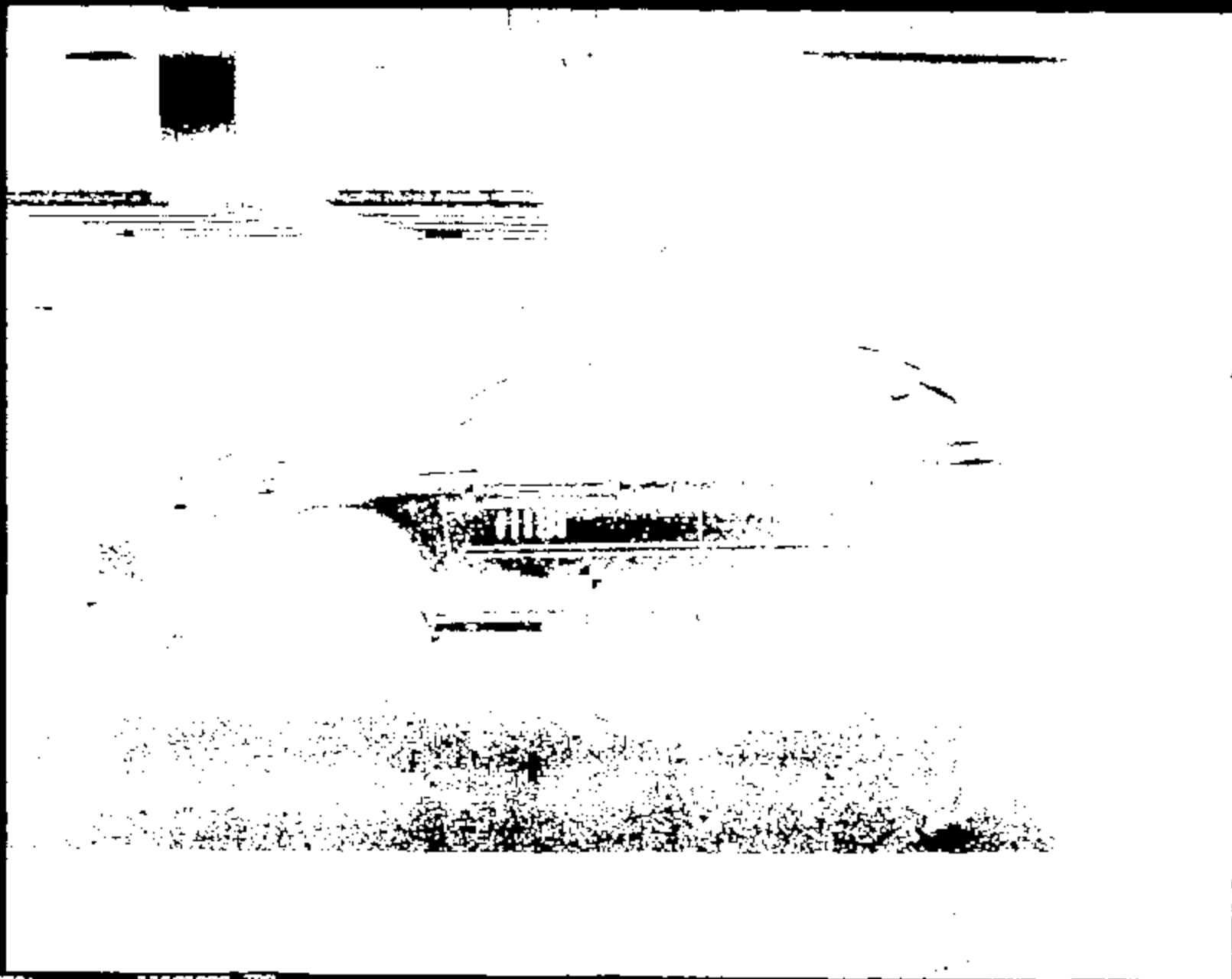
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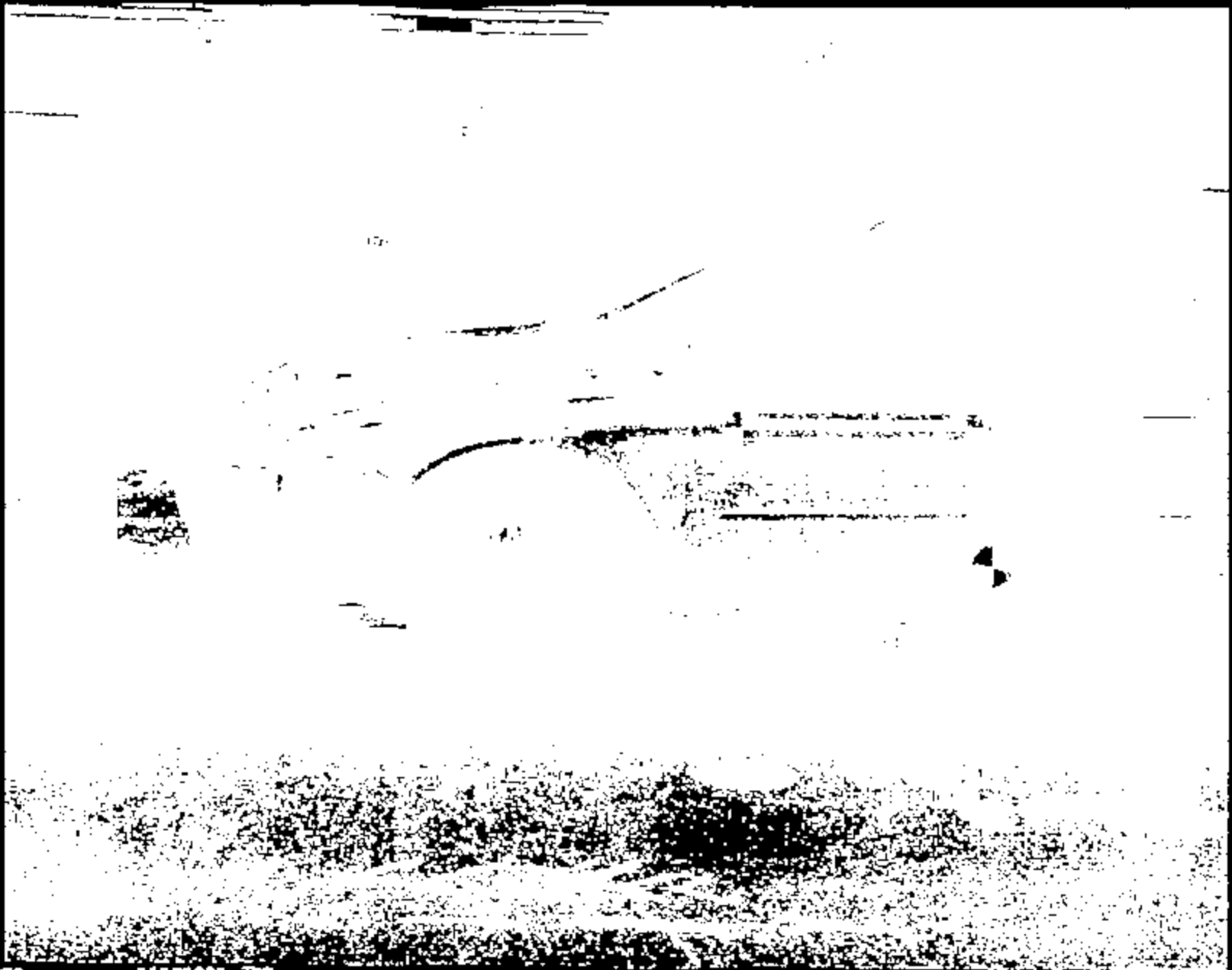
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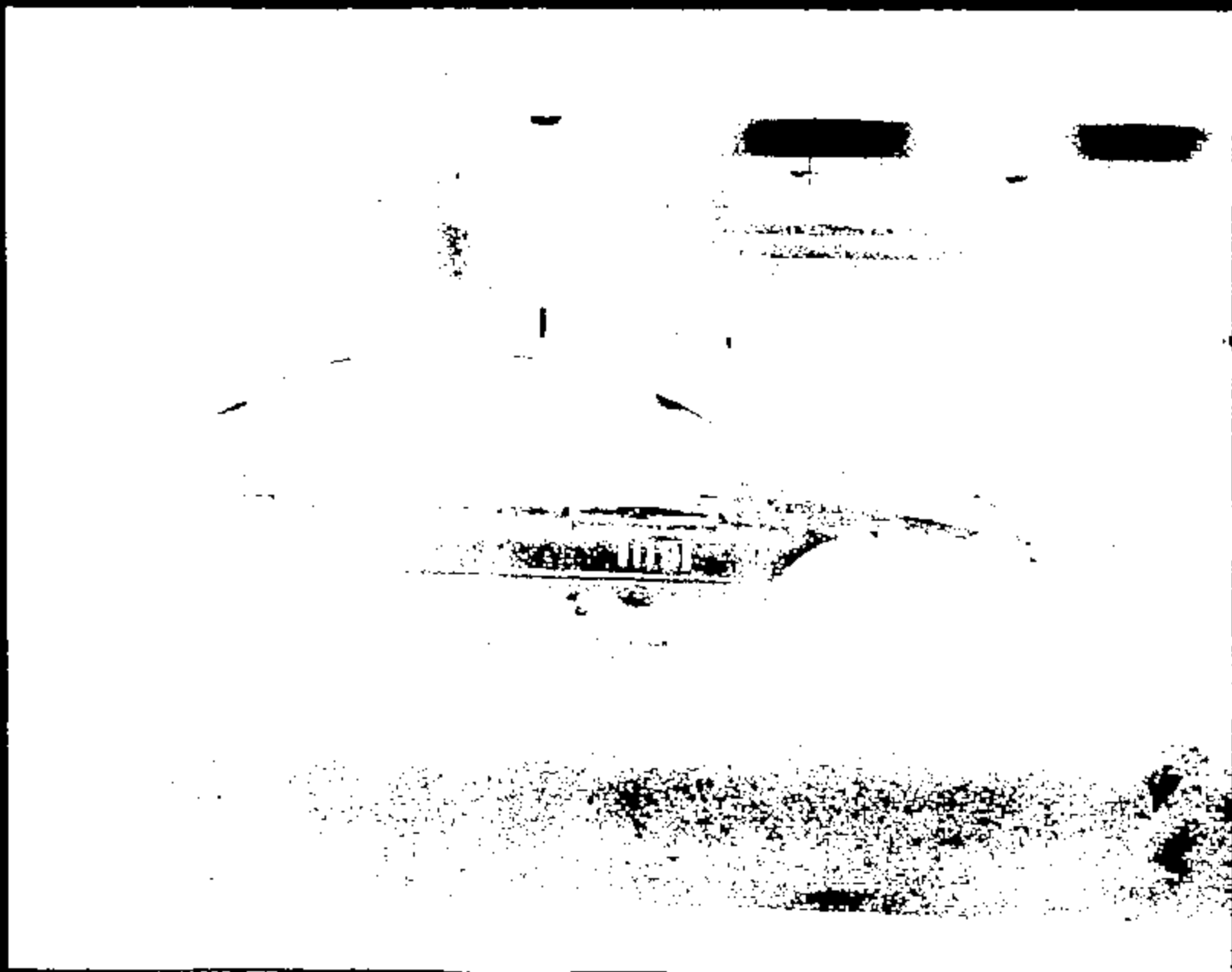
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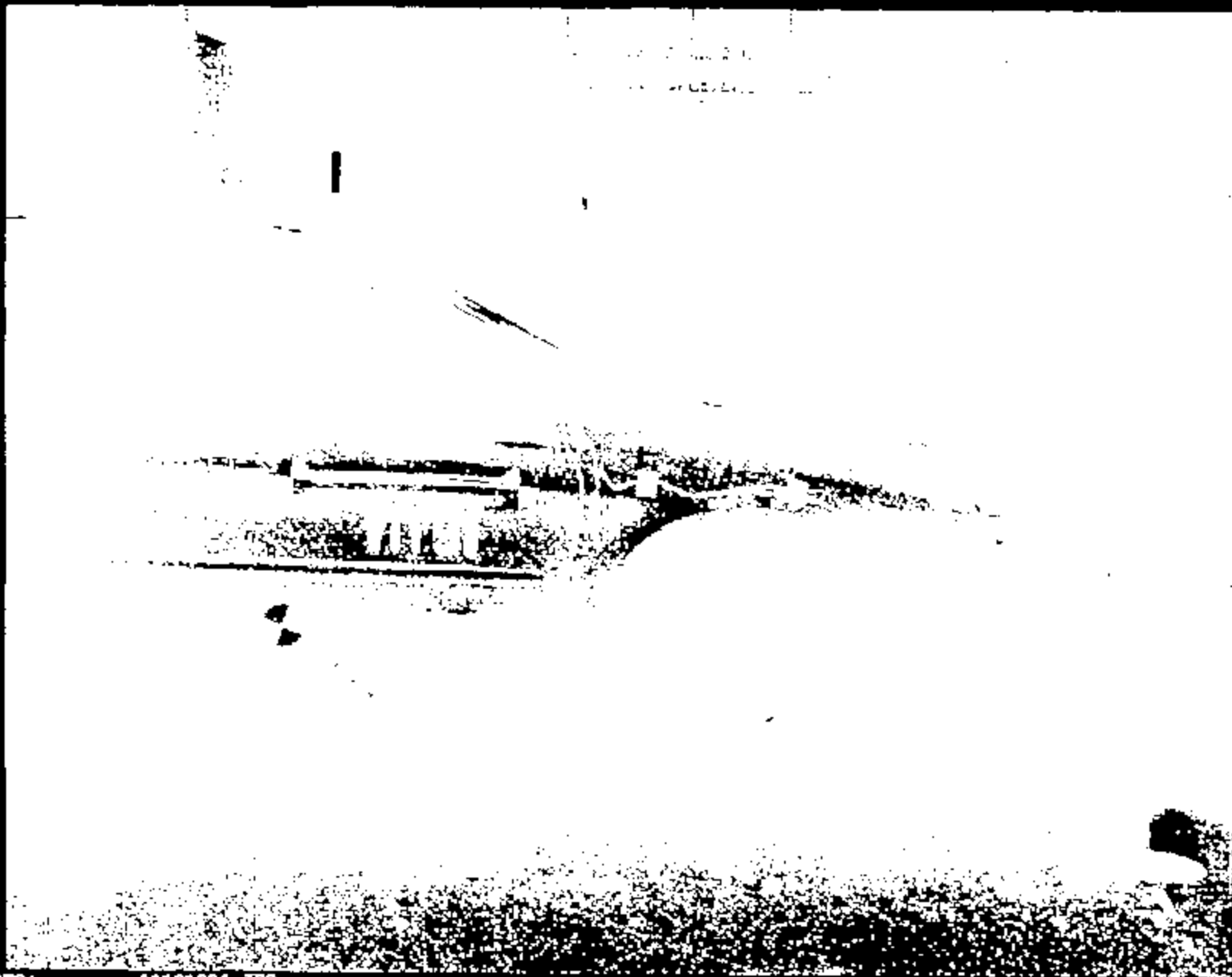


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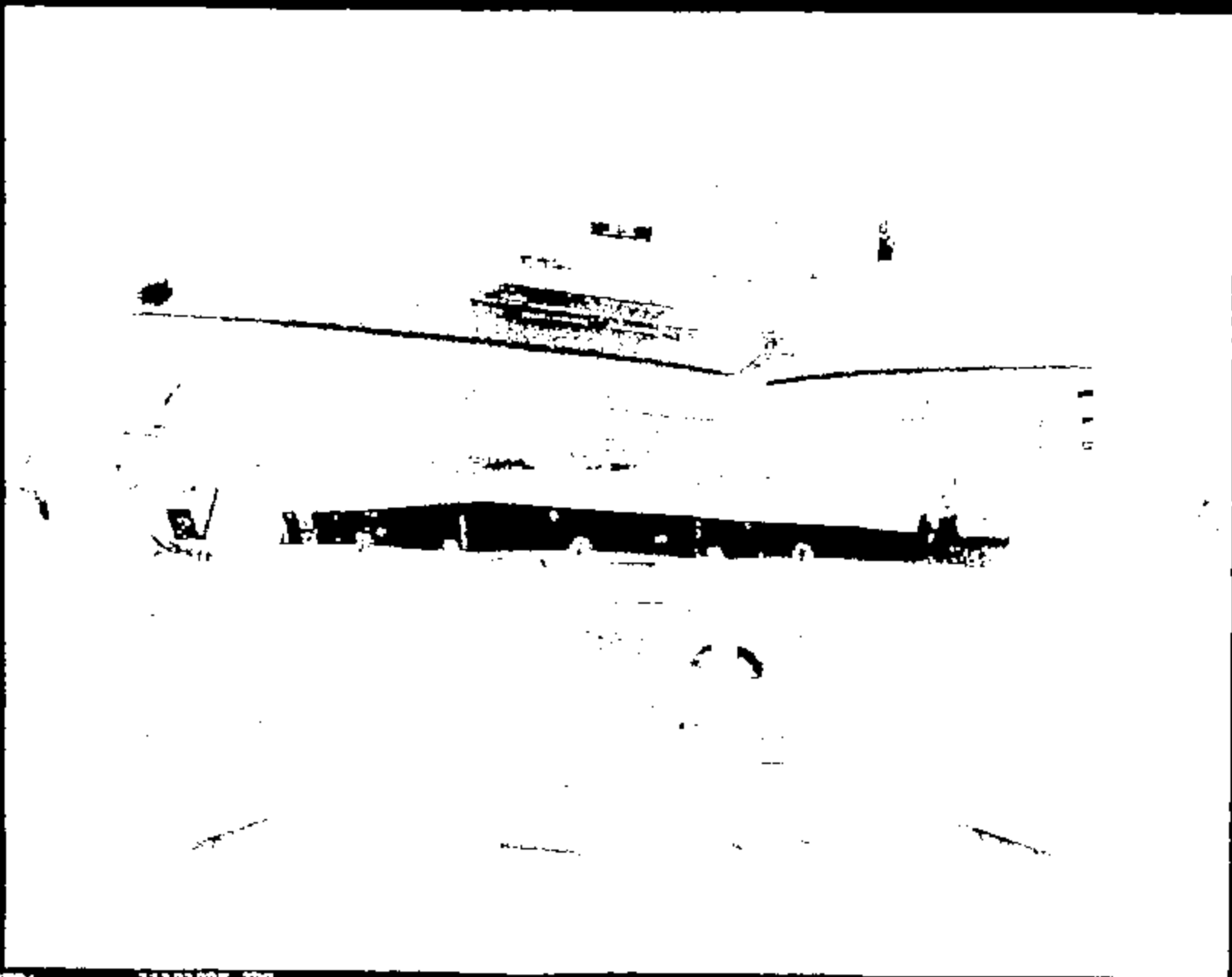
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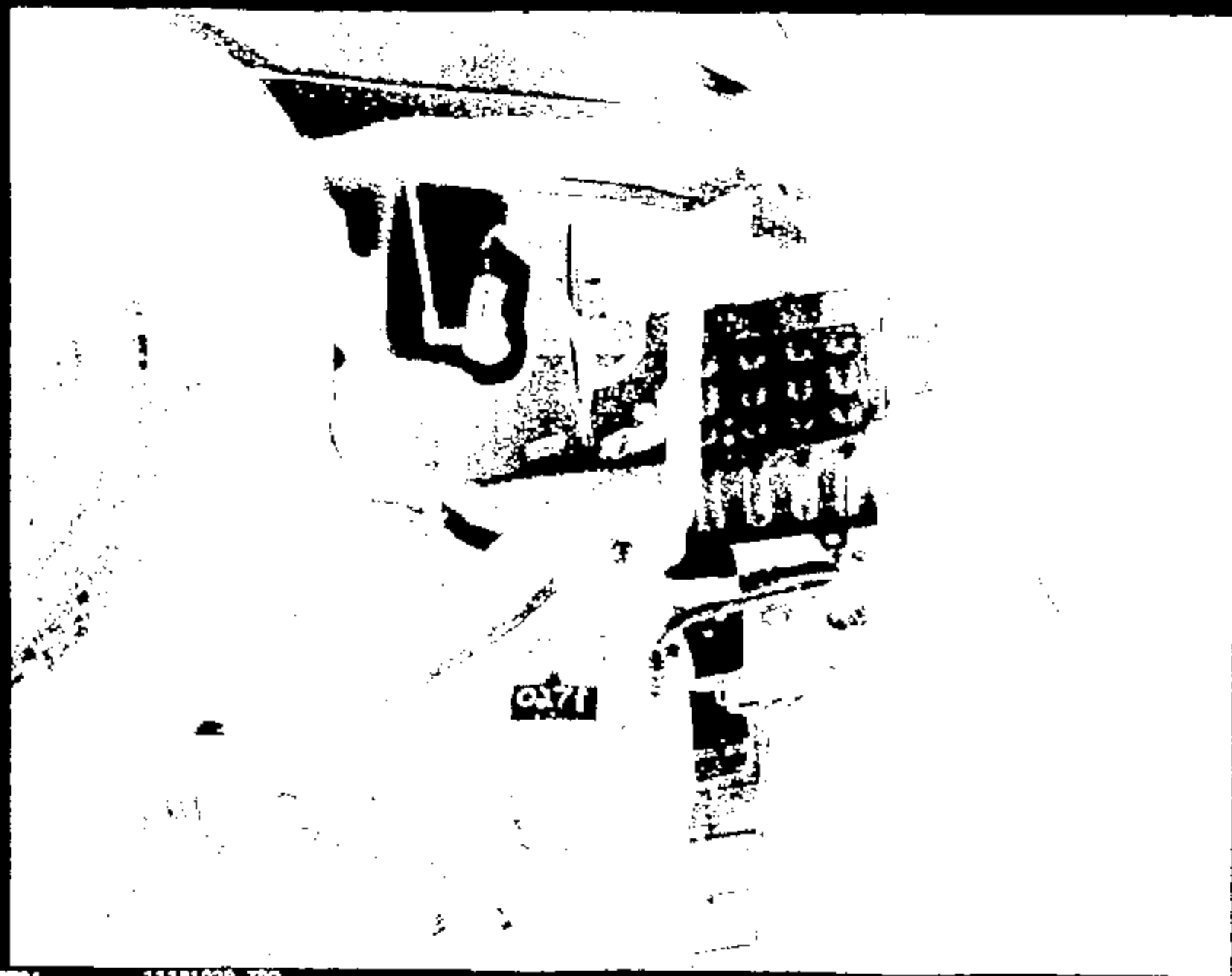
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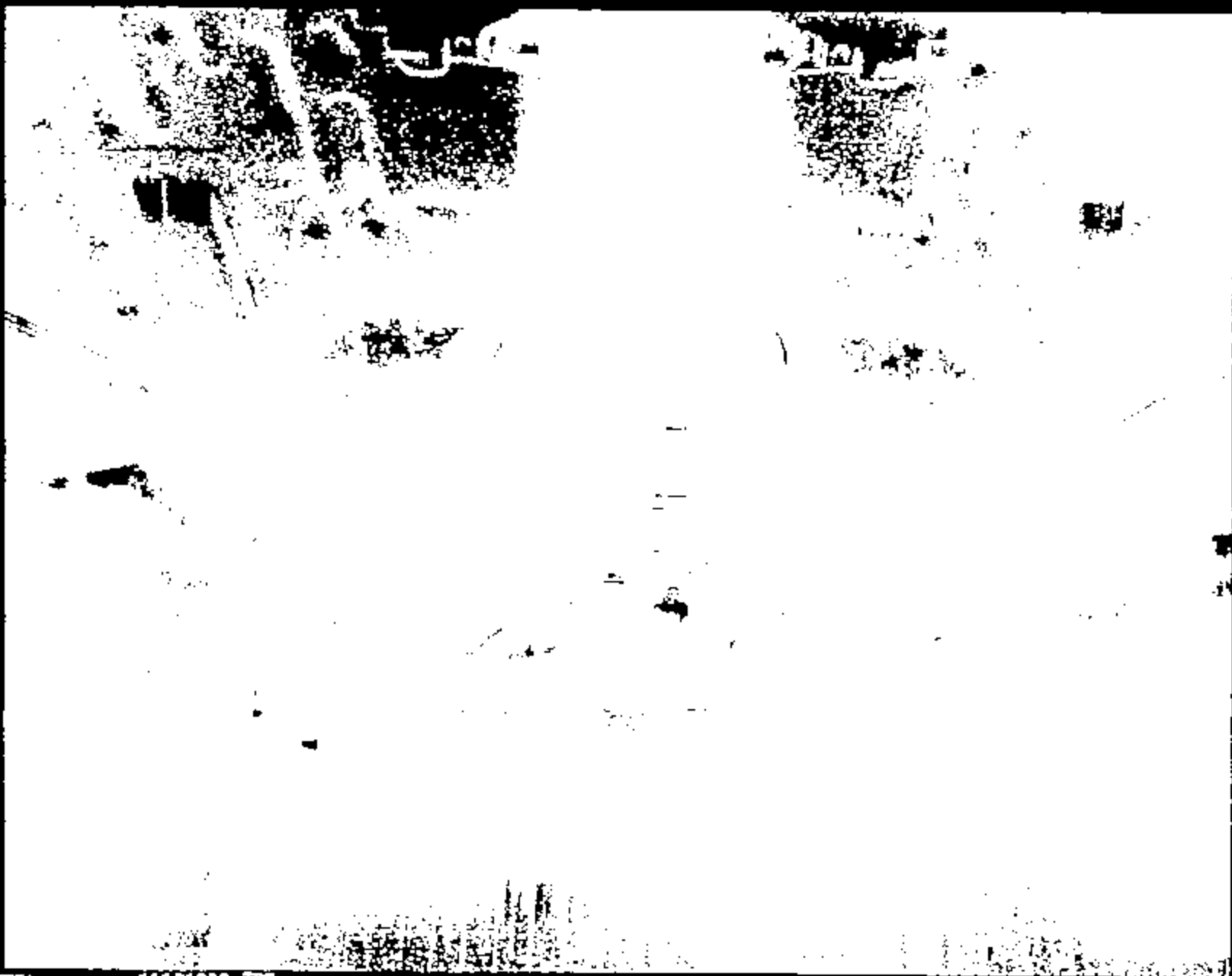
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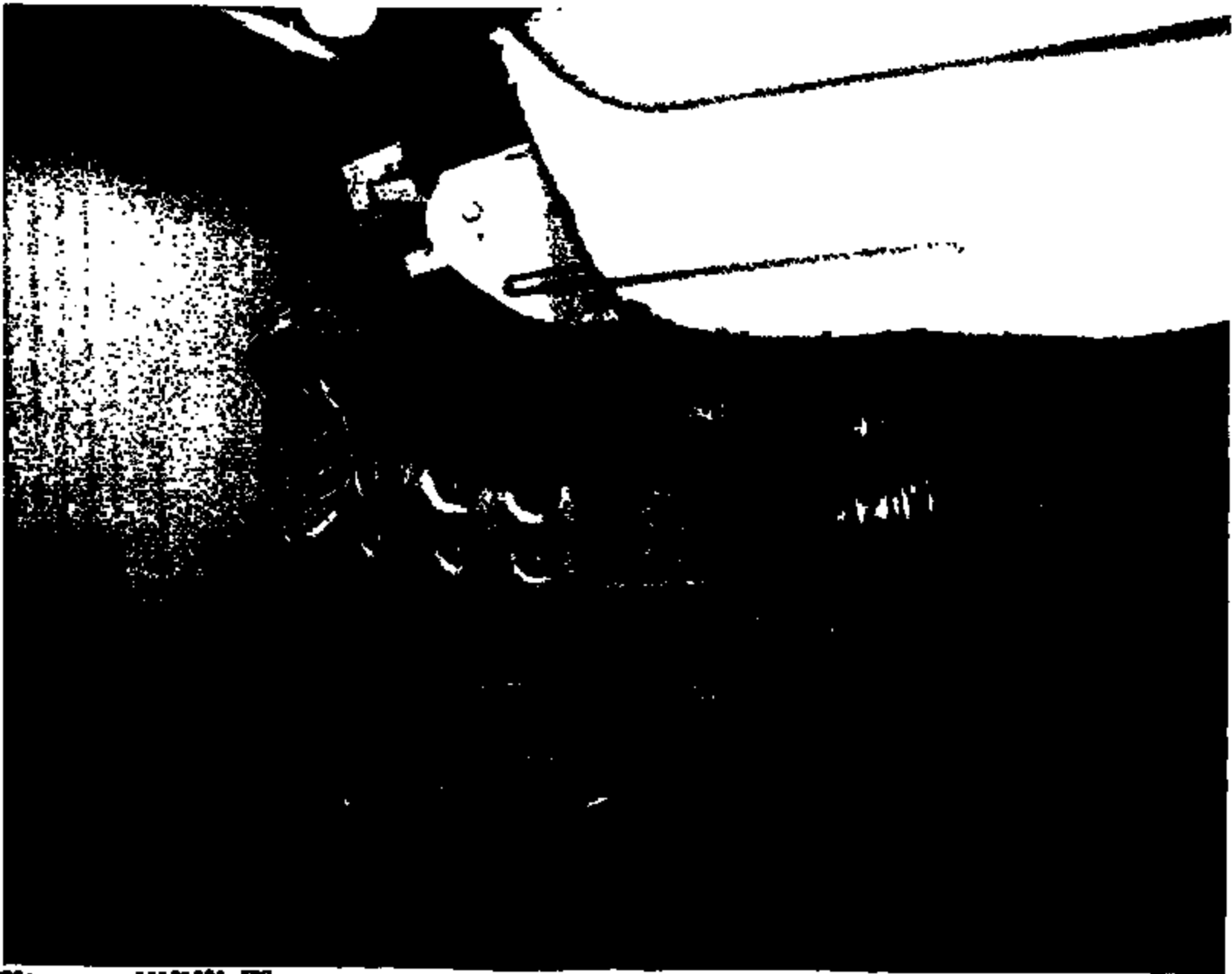
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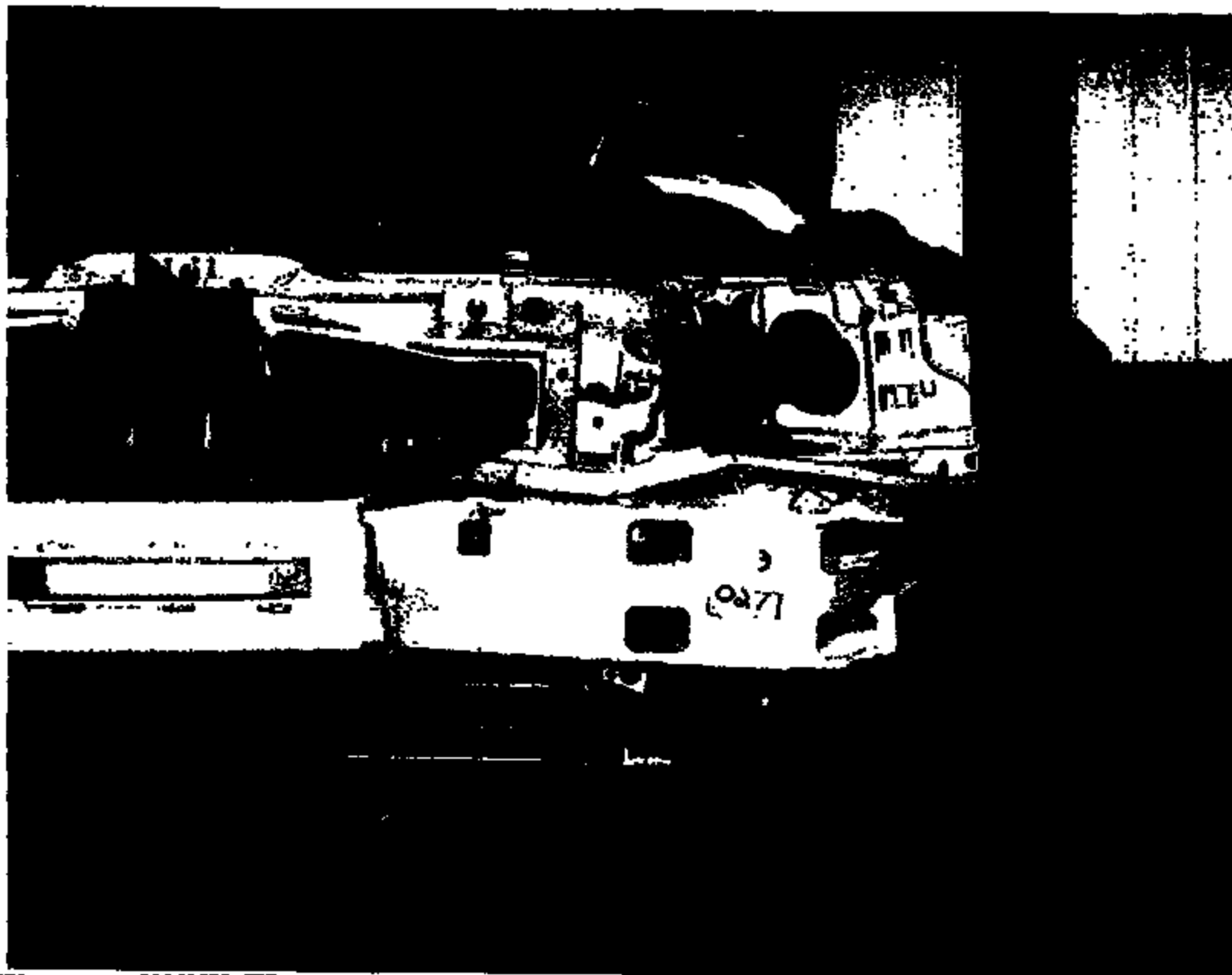
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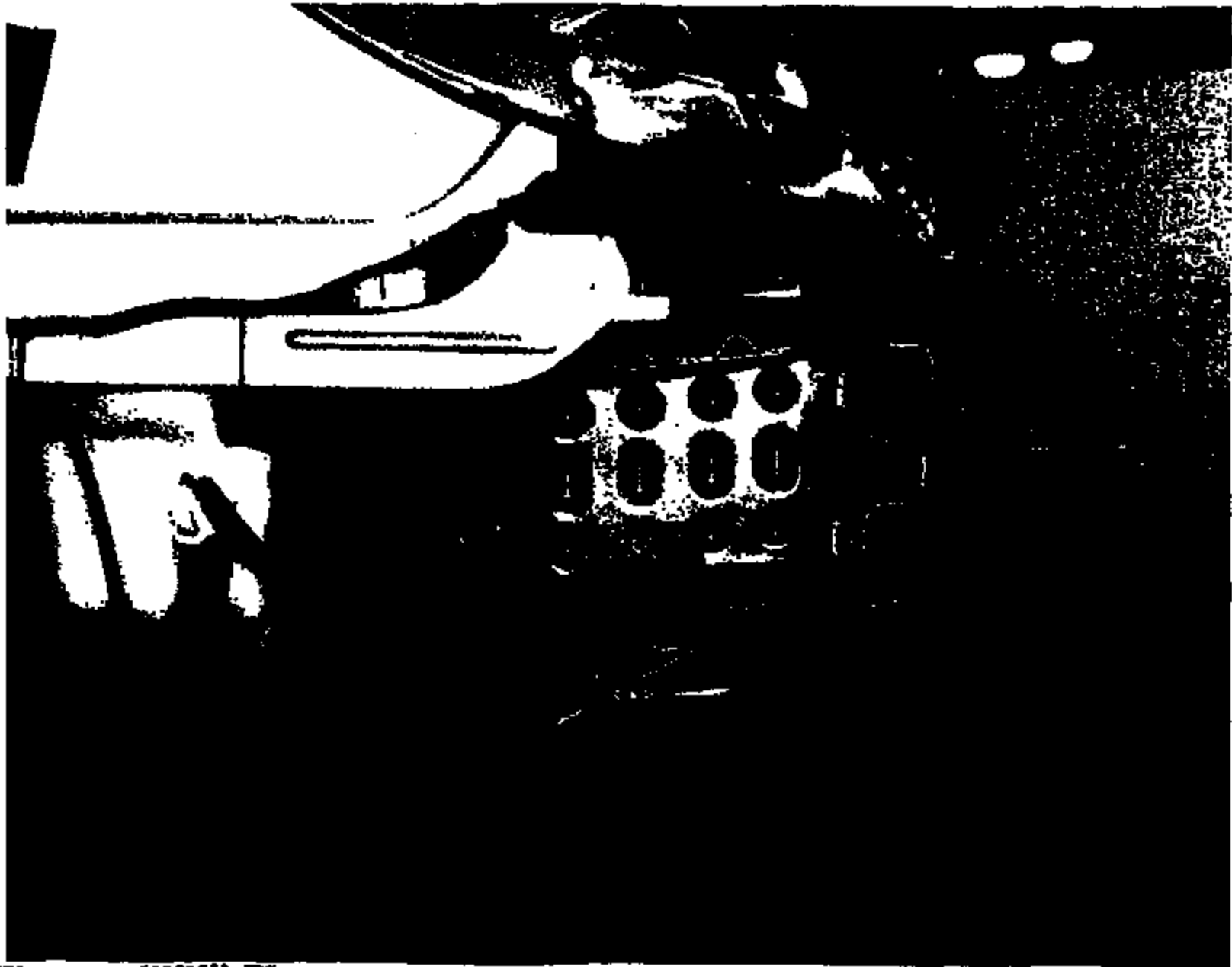


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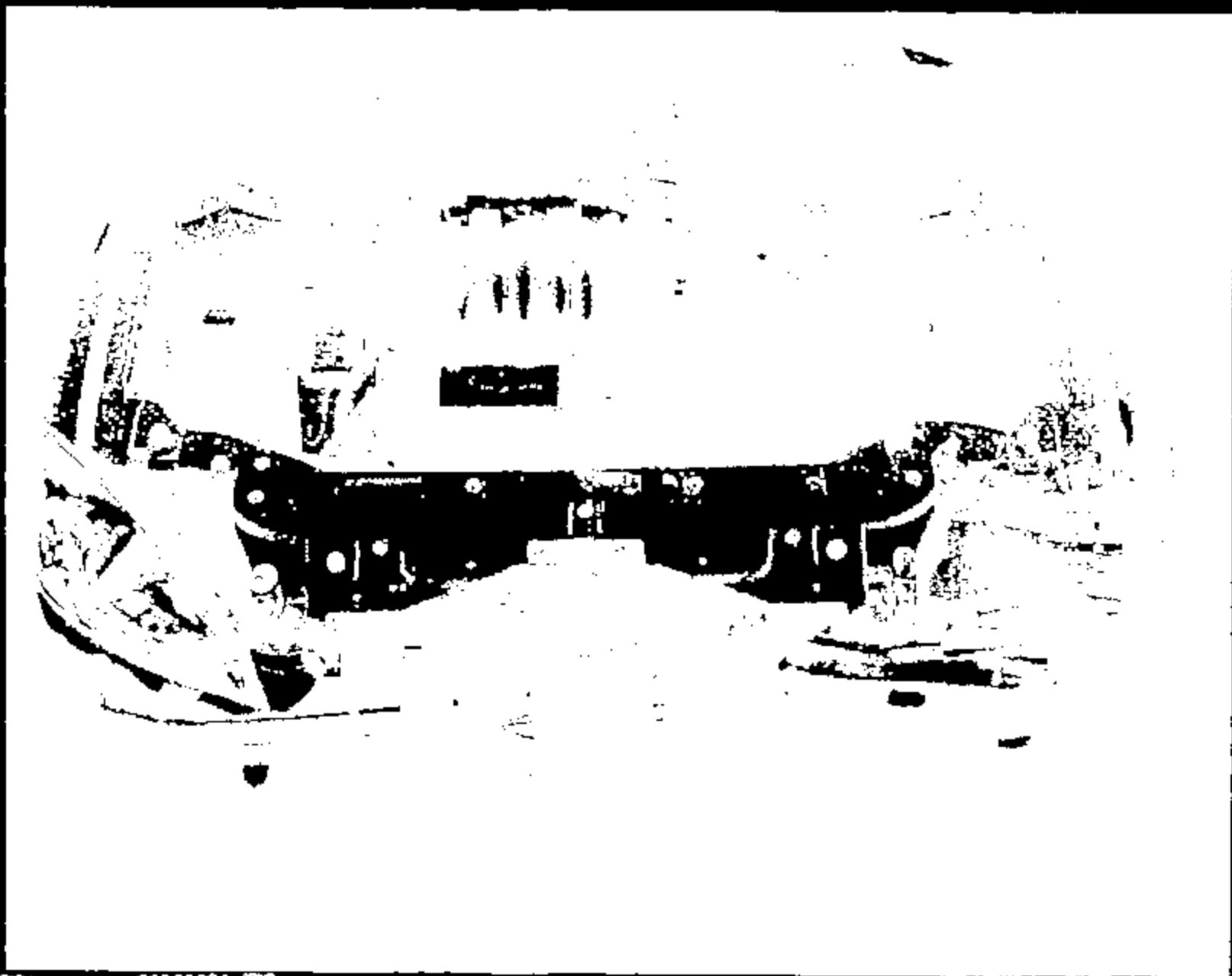
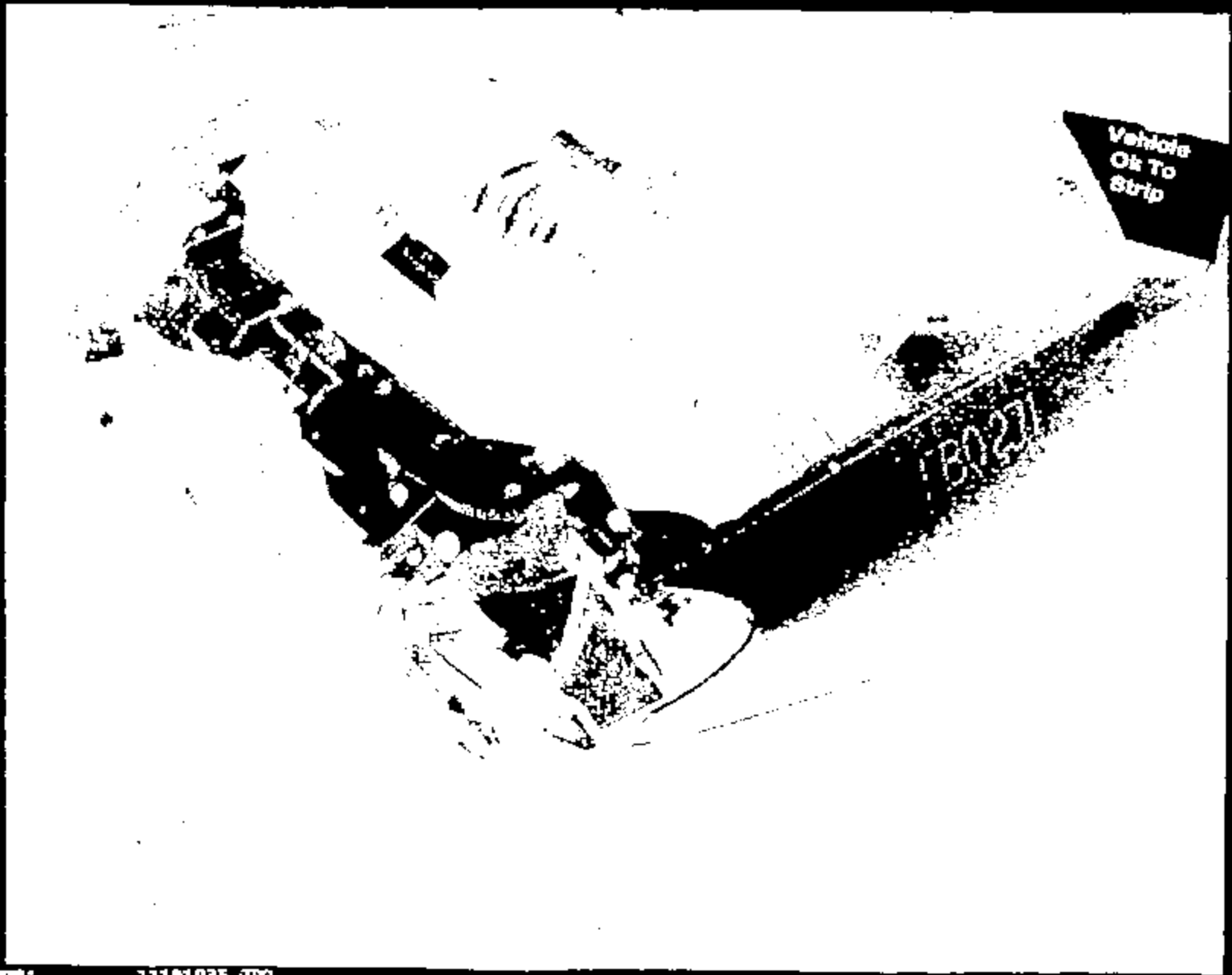


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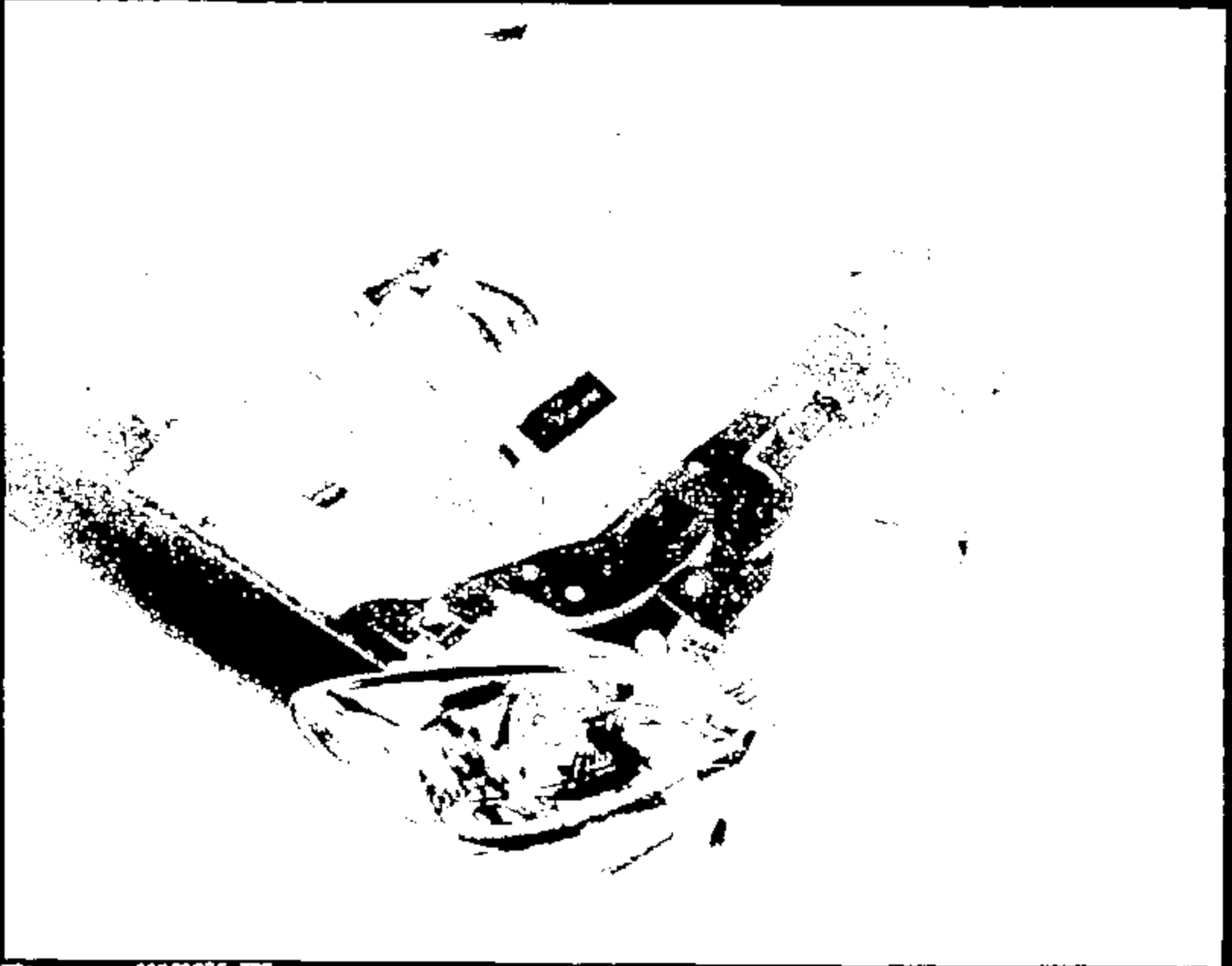
Vehicles  
Ok To  
Strip

13027

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11191035.JPG



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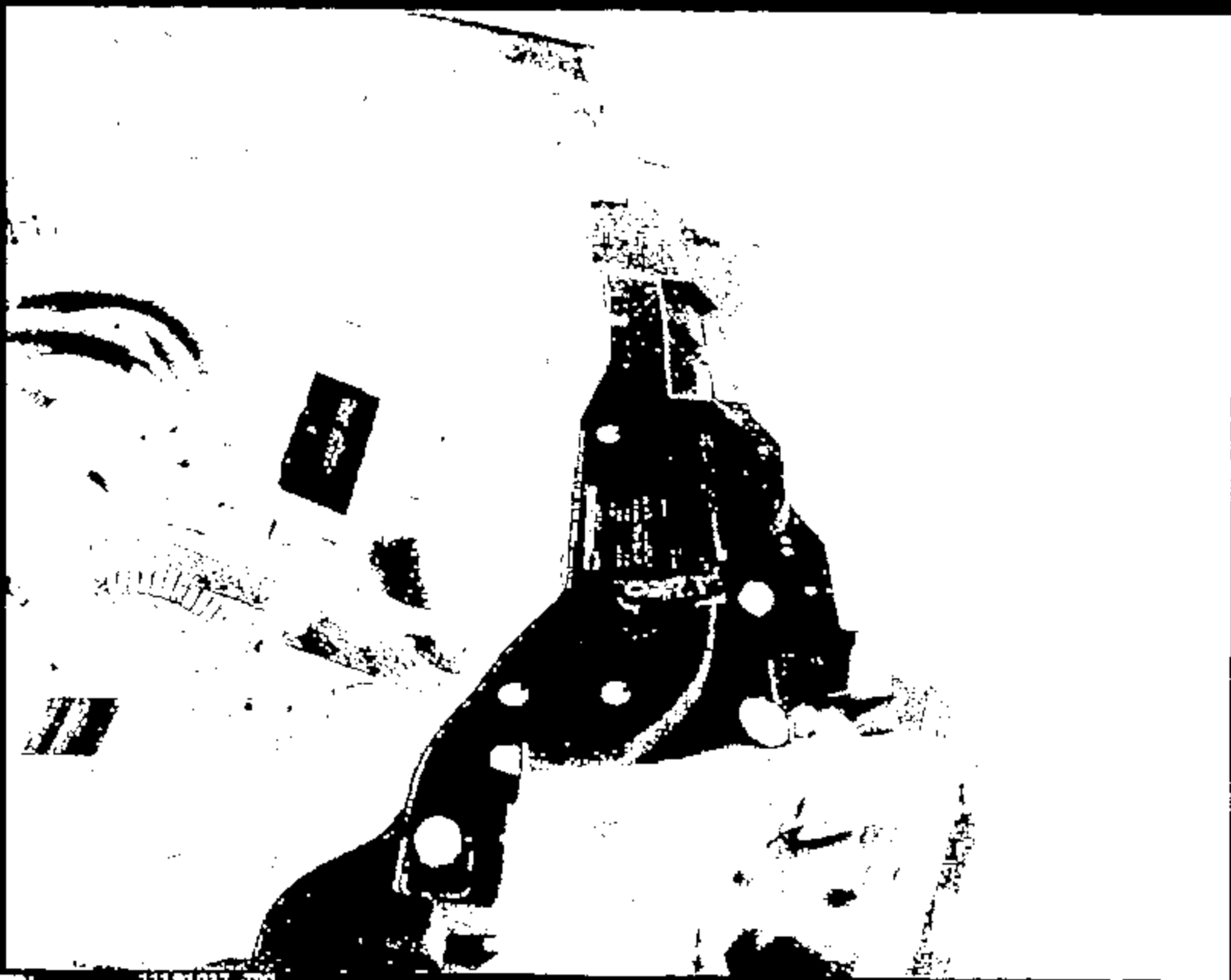
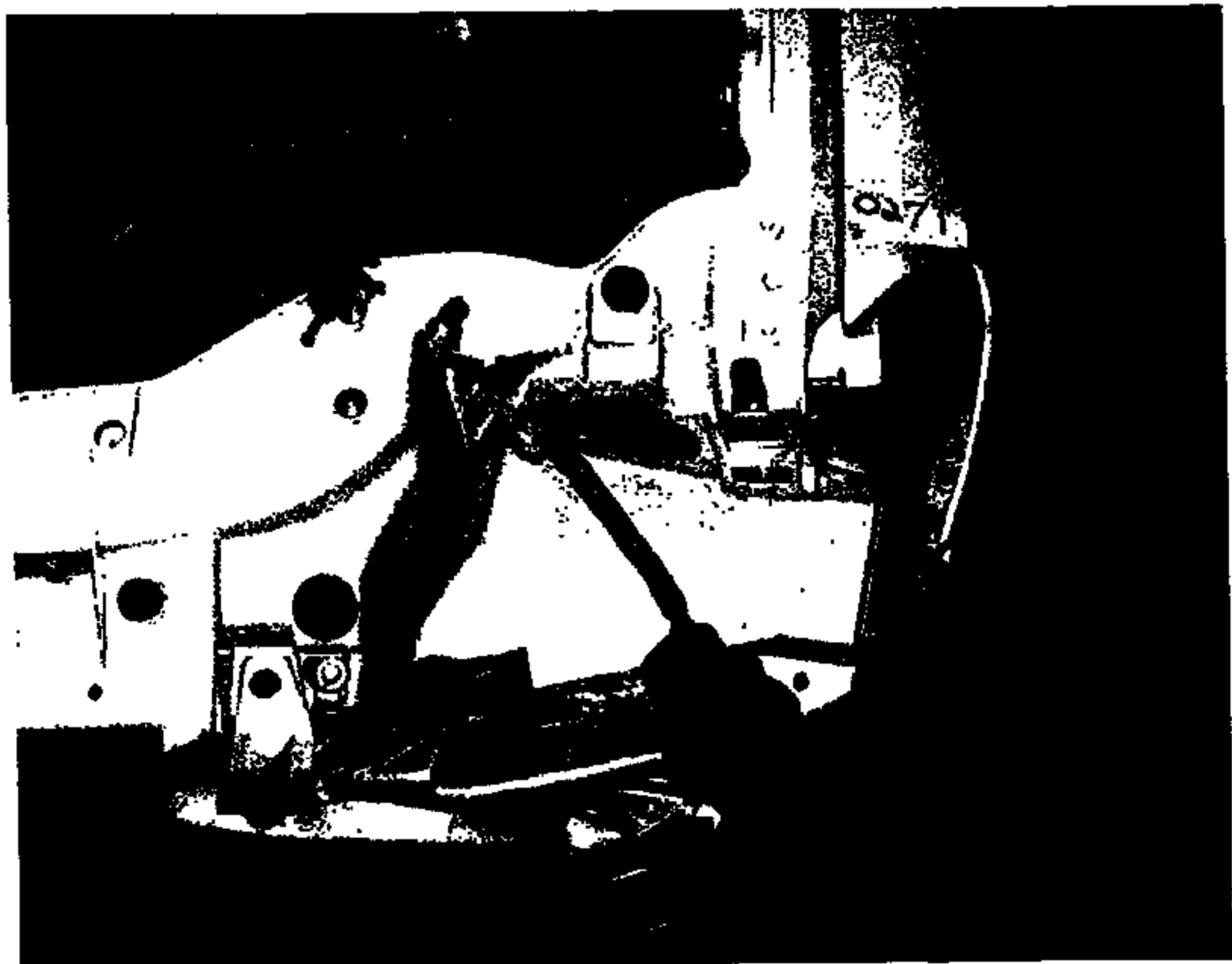


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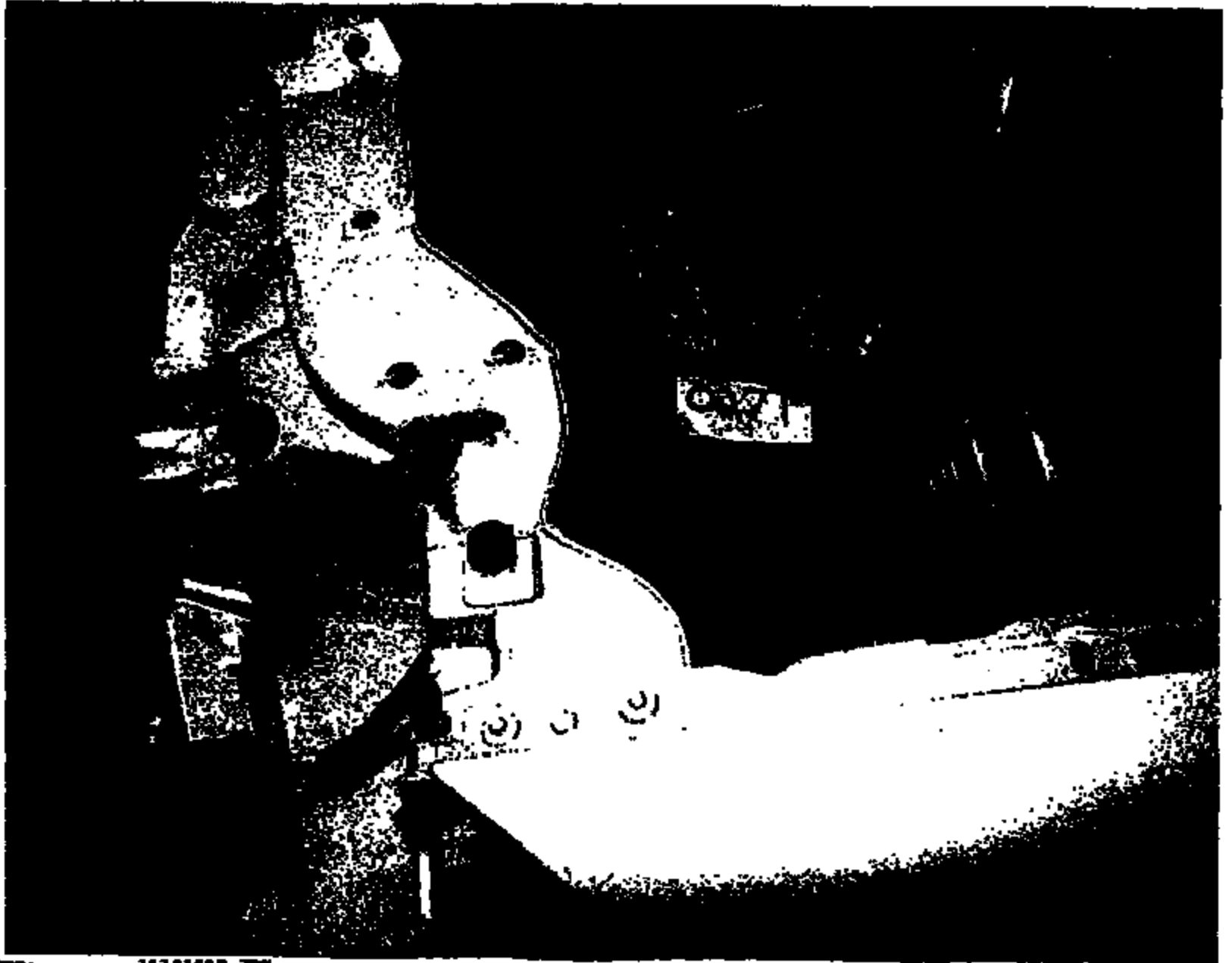
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Photo:

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CRTS 0011191

 <b>GTO Test Request</b>		Requestor/Coordinator (PROPS ID):	
		KEWING	
Testing Activity: Crash Barrier Test Lab		Date Submitted: 18-AUG-88	Requested Completion Date: 21-AUG-88
Requestor Reference Number:			
Test Procedure Number: CR8-00	Test Title and / or Subject of Test: 2000 D185 CP Tachum Sensor Verification Test		
Billable Requestor Dept No.:	Worktask/Work Order Number:	Test conducted to certify control beam sample frame with Government Regulations:	
T881 AV2216A	PO8		
Billable Requestor PROPS ID.:	Billable Requestor Name:	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
KEWING	KURT EWING		
<p>Complete the following two questions as indicated</p> <p>1 - Reason for not replacing this test by CAE Analysis:</p> <p><input type="checkbox"/> No CAE Methodology or process available</p> <p><input type="checkbox"/> For CAE Correlation</p> <p><input type="checkbox"/> Insufficient confidence in CAE</p> <p><input type="checkbox"/> To obtain basic data for CAE</p> <p><input type="checkbox"/> Replacement or Improvement of existing Test</p> <p><input type="checkbox"/> Testing in Culture</p> <p><input type="checkbox"/> Mandatory or Regulatory</p> <p><input type="checkbox"/> Certification</p> <p><input type="checkbox"/> Development test for FSB</p> <p><input type="checkbox"/> Not applicable</p> <p>Other: Verification</p> <p>(Check appropriate boxes)</p>			
<p>2 - What is the expected Test Outcome:</p> <p><input checked="" type="checkbox"/> Results will meet DVPWOP requirements</p> <p><input type="checkbox"/> System Component will not meet Test specification</p> <p><input type="checkbox"/> Unknown</p> <p><input type="checkbox"/> Above is Based on CAE?</p> <p>Other:</p> <p>(Check appropriate boxes)</p>			
<p>Test Purpose/Test Procedure or Description of Test:</p> <p>Custom Test Procedure T887-029</p> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin-left: auto;"> <p><b>"RECORD COPY"</b></p> <p>Schedule No. <u>9-7-12</u></p> <p>Retain Until <u>2018</u></p> </div>			
<p>Signature Approvals (As Required for Control Purpose)</p> <p>Requesting Engineer <u>KURT EWING</u> Testing Engineer _____</p> <p>Requesting Supervisor/Manager <u>JM SCLAND</u> Testing Supervisor _____</p>			

BARRIER TEST REQUEST

TB0271

TEST OBJECTIVE: VERIFICATION, AIR BAG SENSOR  
 IMPACT SPEED (MPH): 11  
 TEST PROCEDURE: THATCHUM  
 OFFSET VEHICLE SUCH THAT LEFT FRONT SHALL BE IMPACTED.  
 ALIGN OFFSET SCRIBE ON VEHICLE FRONT WITH EDGE OF BARRIER FACE.  
 IMPACT VEHICLE FRONTALLY INTO OFFSET BARRIER.

TEST VEHICLE TAG: 

079W888
---------

  
 TEST VEHICLE VIN: 

1PALP83J1YS100888
-------------------

  
 MODEL: 

D100
------

  
 MODEL YEAR: 

2000
------

  
 TASK NO.: 

PO0
-----

  
 BILLABLE DEPT.: 

T881
------

  
 PDL: 

CDD-0000
----------

FUEL: TYPE= 

NONE
------

 FILL LEVEL (GAL.) = 

0
---

TYRE PRESSURE (PSI): FRONT = 

30
----

 REAR = 

28
----

 SPARE = 

NA
----

  
 CURB WEIGHT (LBF.): FRONT = 

2121
------

 REAR = 

1183
------

 TOTAL = 

3304
------

  
 TEST WEIGHT (LBF.): FRONT = 

2310
------

 REAR = 

1880
------

 TOTAL = 

4190
------

  
 +/- = 

20
----

RIDE HEIGHTS (IN): FRONT = 

LEVEL RR
+/- TO GROUND

 REAR = 

LEVEL RR
+/- TO GROUND

WEIGH UP INSTRUCTIONS:

MAY REMOVE: DECKLID  
 DO NOT PLACE WEIGHT: UNDERHOOD LOCATIONS OTHER THAN IN ENGINE (SEE BELOW).  
 MAX ADD TO ENGINE: 70 LBF.  
 LOAD TO TEST WEIGHT & LEVEL ROCKERS WRT GROUND.

OCCUPANT TYPE: LEFT FRONT = 

WATER	BOYLE
-------	-------

 RIGHT FRONT = 

<del>WATER</del>	<del>BOYLE</del>
------------------	------------------

*125 2/14/00*

DURRY POSITIONING: 

NA
----

 DRIVER FOOT-REST: 

NA
----

SEAT POSITIONING:

	LONG	VERT	BACK ANGLE (DEG.)	PRG CHR
LEFT FRONT =	MID	PULL DWN	27.2 (FRAME)	N
RIGHT FRONT =	MID	PULL DWN	27.2 (FRAME)	N

RESTRAINTS USAGE:

	BELT	PYRO BELT	FRT BAG	SIDE BAG	NOTE: SEAT BELT PRETENSIONERS ARE @ BUCKLE IF SO EQUIPPED.
LEFT FRONT =	NA	NA	NA	NA	
RIGHT FRONT =	NA	NA	NA	NA	

**BARRIER TEST REQUEST**

TB0271

**SENSOR SYSTEM:** RECORD SENSOR OUTPUTS, SEE INSTRUMENTATION REQUEST & SENSOR MAP

**DIMENSIONAL ANALYSIS:** MARK 40% OFFSET LINE TOWARD DRIVER SIDE OF VEHICLE  
 40% OF EXTERIOR VEHICLE WIDTH EXCLUDING SIDE MIRRORS AS PER THATCHUM TEST PROCEDURE

**STILL PHOTO:** STANDARD PRE & POST TEST

**HIGH SPEED FILM:**

OFFBOARD		ONBOARD		NOTES
1	RIGHT OVERALL			
2	LEFT OVERALL			
3	OVERHEAD OVERALL			
4	OVERHEAD A-PILLAR FORWARD			
5	FTT A-PILLAR FORWARD			
TOTAL OFFBOARD = 5		TOTAL ONBOARD = 0		

**FILM ANALYSIS:** LEFT ROCKER DISP. & VELOCITY @ B-PILLAR WRT GROUND  
 RIGHT ROCKER DISP. & VELOCITY @ B-PILLAR WRT GROUND

**DIGITIZED FILM:**

NA			
----	--	--	--

**SPECIAL BUILD INSTRUCTIONS:**

- 1 UPDATE SENSOR SYSTEM (SEE SENSOR MAP FOR PART DESCRIPTIONS & SERIAL NUMBERS)
- 2 REMOVE AIR BAGS

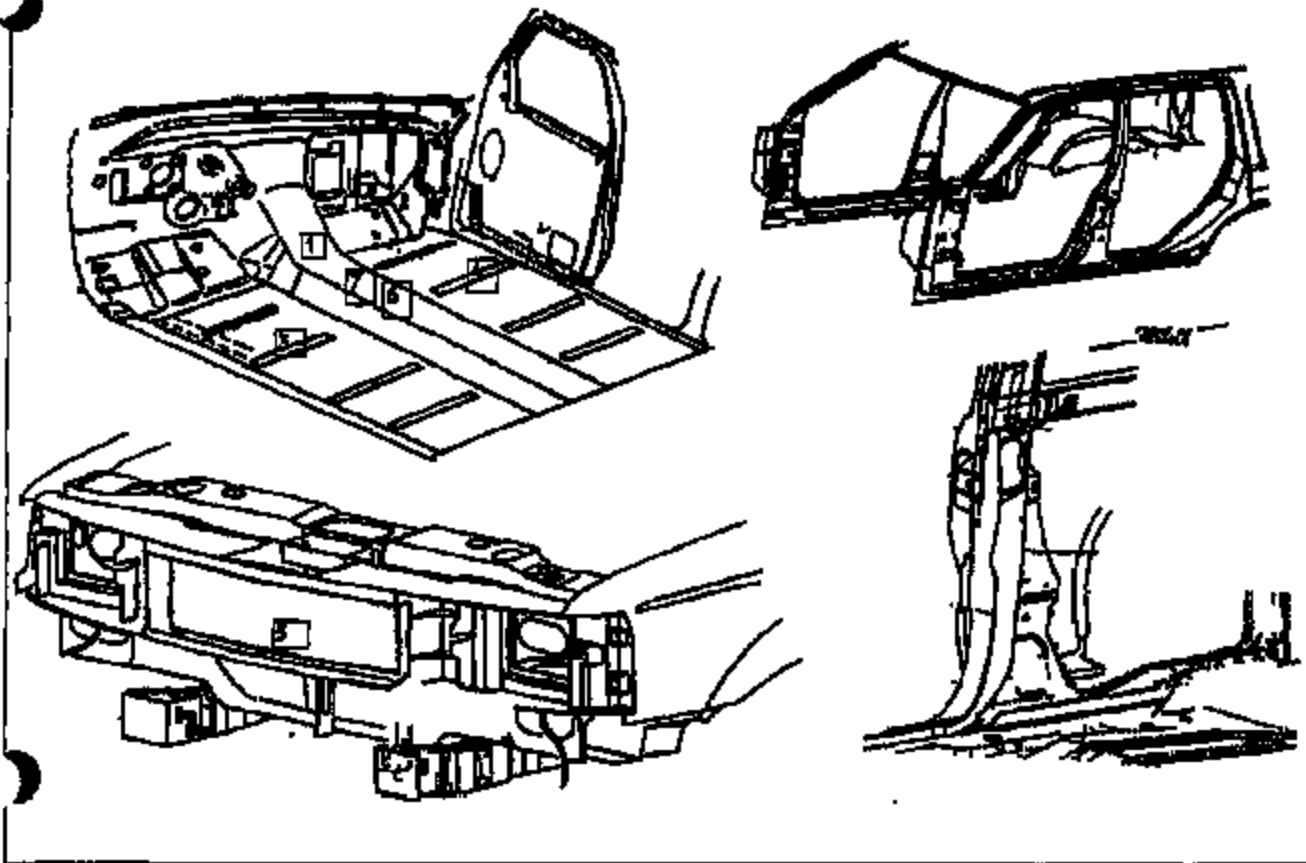
**CONTACTS:**

	NAME	PHONE	PAGER
REQUESTOR:	K. EWING	31-85188	KEWI
BLD. COORD:	B. PAGANO	33-30845	BPAG
SUPERVISOR:	K. ARTHURS	59-08188	KART

# SENSOR MAP

Vehicle ID: 579W885  
Build level: CP

Program: D188  
Test Mode: THATCHUM  
TA No.: TB0271



Location Name		Supplier	Output	Nominal (+/-)	Max/Min	Serial #	
1	C/F_FLOOR_PAN_B_PAN_TUNNEL (LWR NGRCM Location)	88009-1	VISTEON	BAR1_OUT	0	10	[REDACTED]
		88009-2		PAS2_OUT	0	10	
		88009-3		AB1_OUT	0	10	
		88009-4		PAS2_OUT	0	10	
		88009-5		D_PSP_OUT	0	10	
		88009-6		P_PSP_OUT	0	10	
		88009-7		D_SAB1_OUT	0	10	
		88009-8		P_SAB1_OUT	0	10	
		88009-9		Status	5	10	
1	C/F_FLOOR_PAN_B_PAN_TUNNEL	oocal	TRAX	On ngrcm		NA	
3	L/F_FLOOR_B_P1_WHR_SEAT_CL	oocal	TRAX			NA	
4	R/F_FLOOR_B_P1_WHR_SEAT_CL	oocal	TRAX			NA	
5	C/RAB	PCS VISTEON	PCS			1A	
5	C/RAD	oocal	TRAX	Next to PCS		NA	

T zero required; 12 volt nominal source

Hard wired: SEAT TRACK (C2-8) 330ohm; DVR bundled (C2-6) 330ohm;

PASS unbundled (C2-10) 910ohm

*CHANGED NGRCM DDA to New Part -  
Serial # 090898C*

*Steve Moore KEWNS  
9/8/98*

K. Ewing, 34-80186  
AVT VCS

Page 1 of 2

File: map\_TB0271, Tab: Sheet1

Revised: 09/01/98

Printed: 09/08, 8:18 AM

CRTS 0011191

		Sensor Channels only					
Location Name	Supplier	Output	Nominal (+/-)	Max/Min	Serial #		
6 FC_FLOOR_FAN@TUNNEL	SW001-1	DAB2	0	10	[REDACTED]		
	SW001-2	PAB2	0	10			
	SW001-3	DAB1	0	10			
	SW001-4	PAB1	0	10			
6 FC_FLOOR_FAN@TUNNEL	ACCEL	TRAX	ON MODULE				
7 FC_FLOOR_FAN@TUNNEL_BM	ACCEL	TRAX	NEXT TO MODULE				

**REVISION LOG**

DESCRIPTION	DATE	PAGES	AUTH
VISTEON TRANSDUCER SW004 TO SW009	9/1/98	1	KLE