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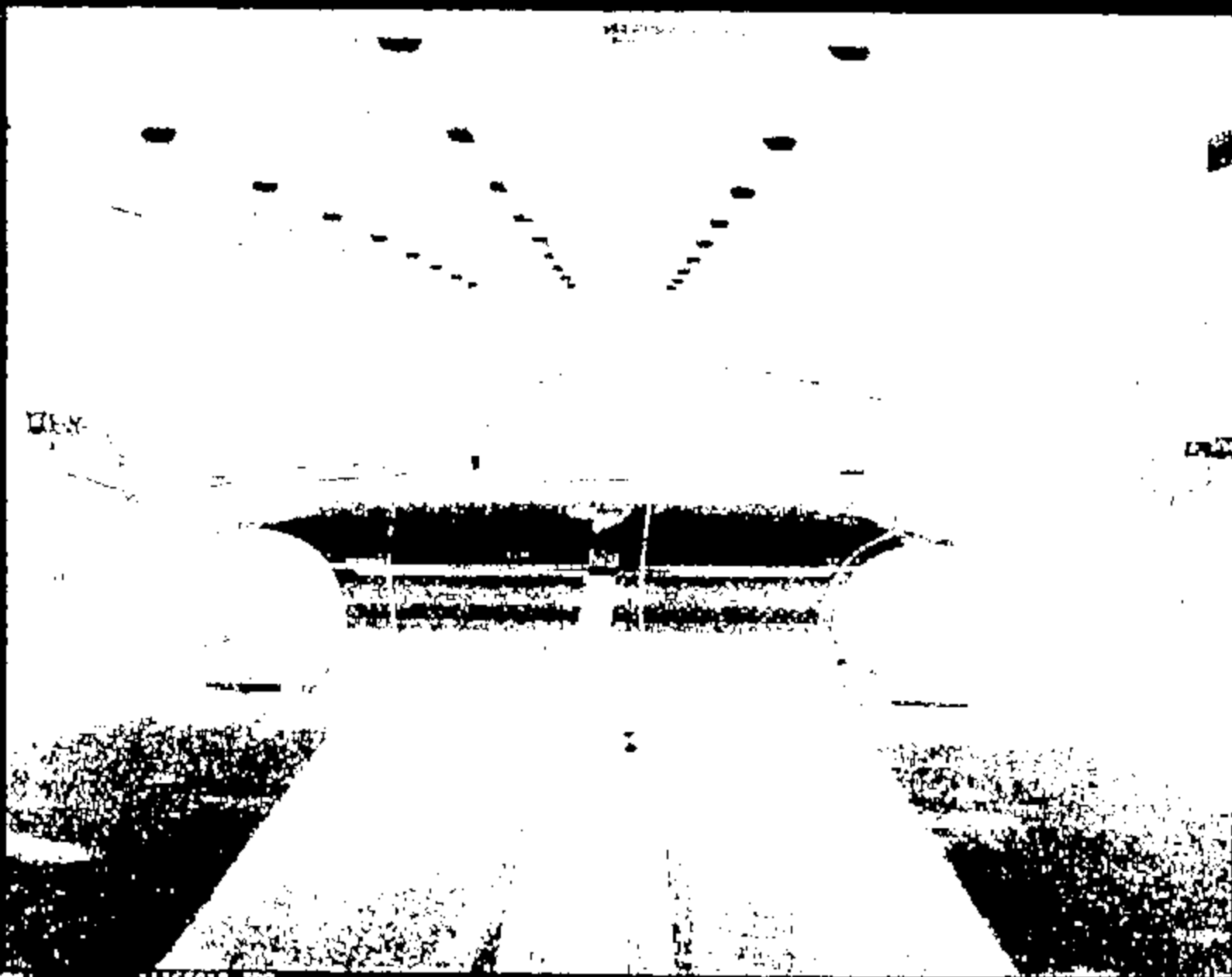
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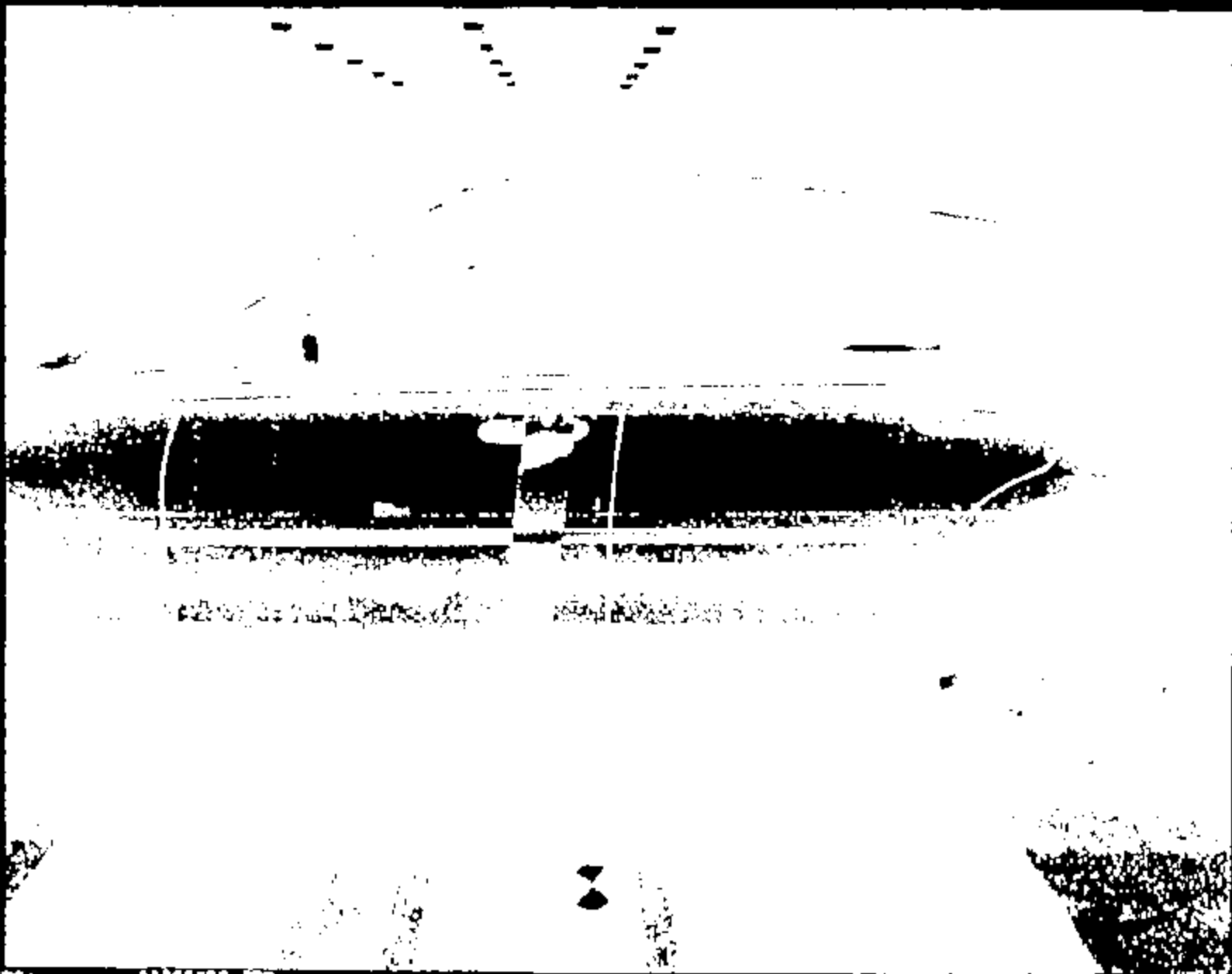


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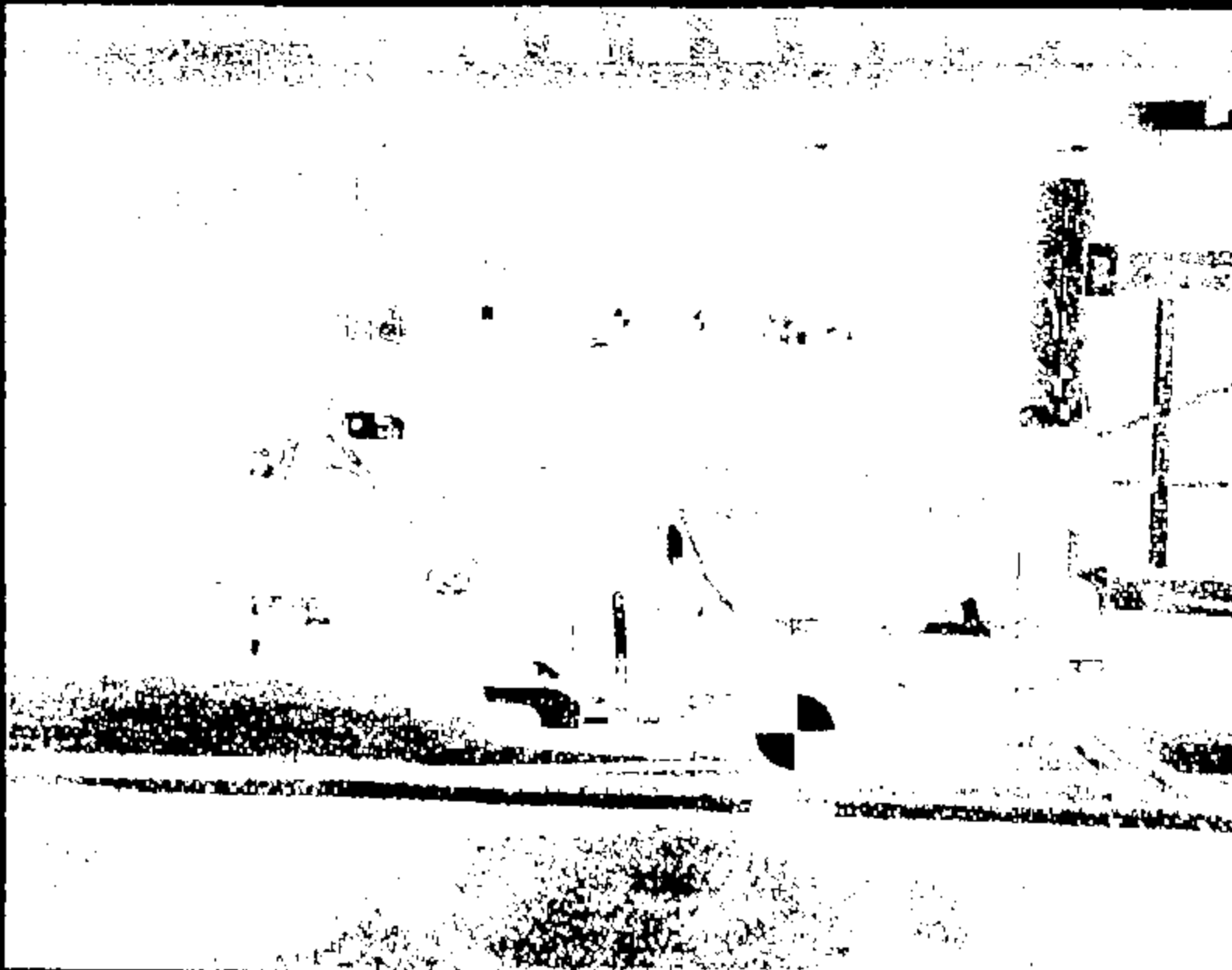


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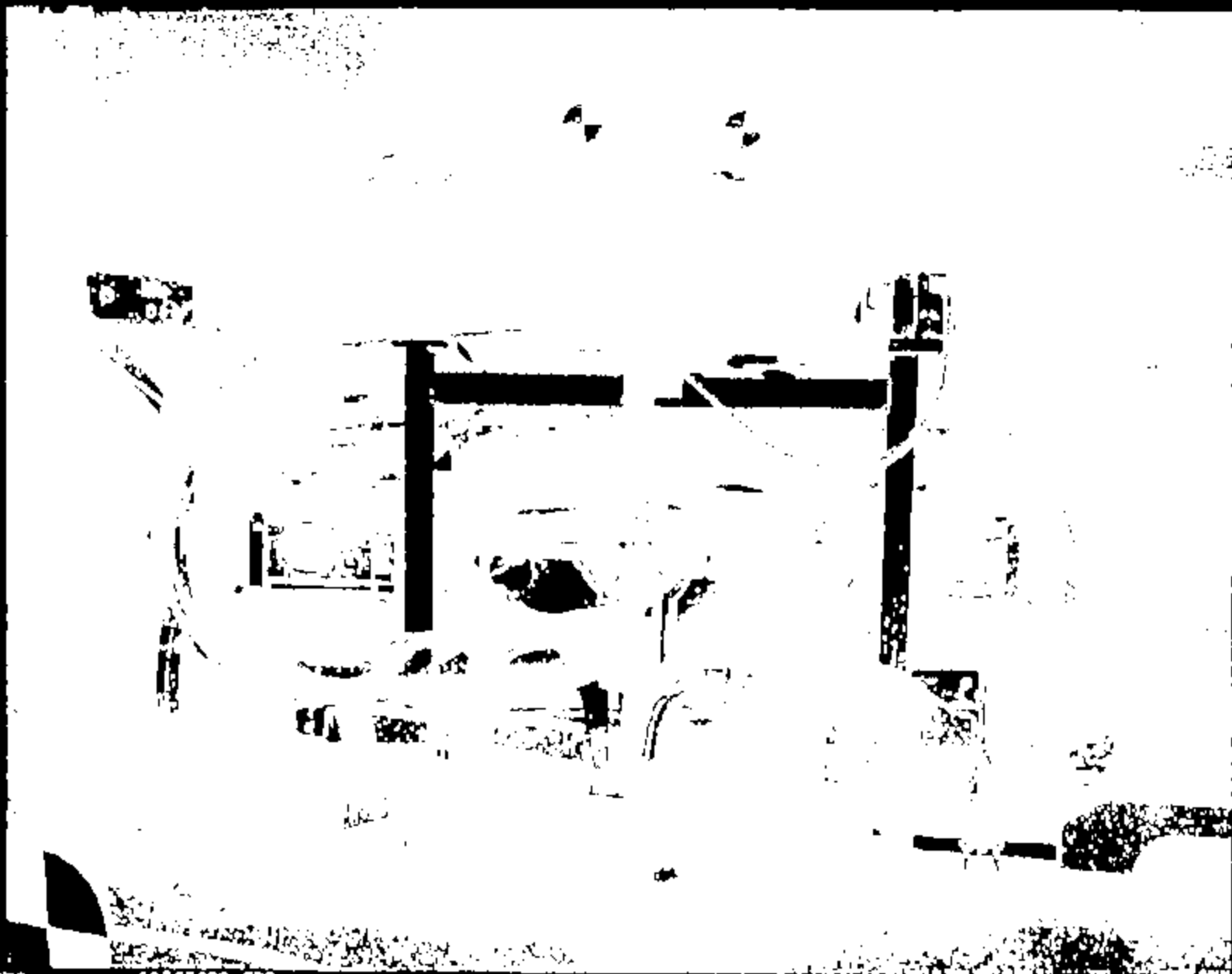


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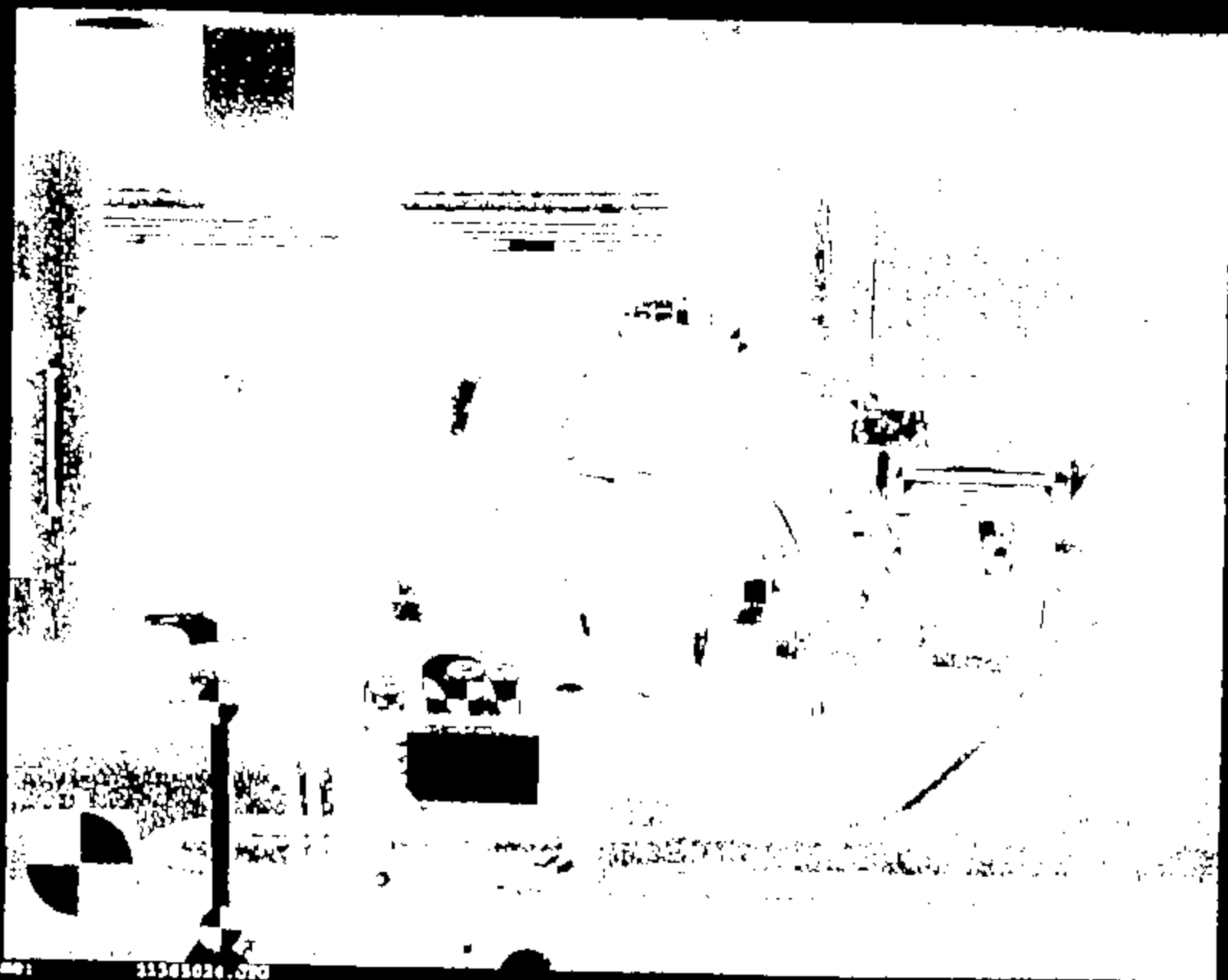
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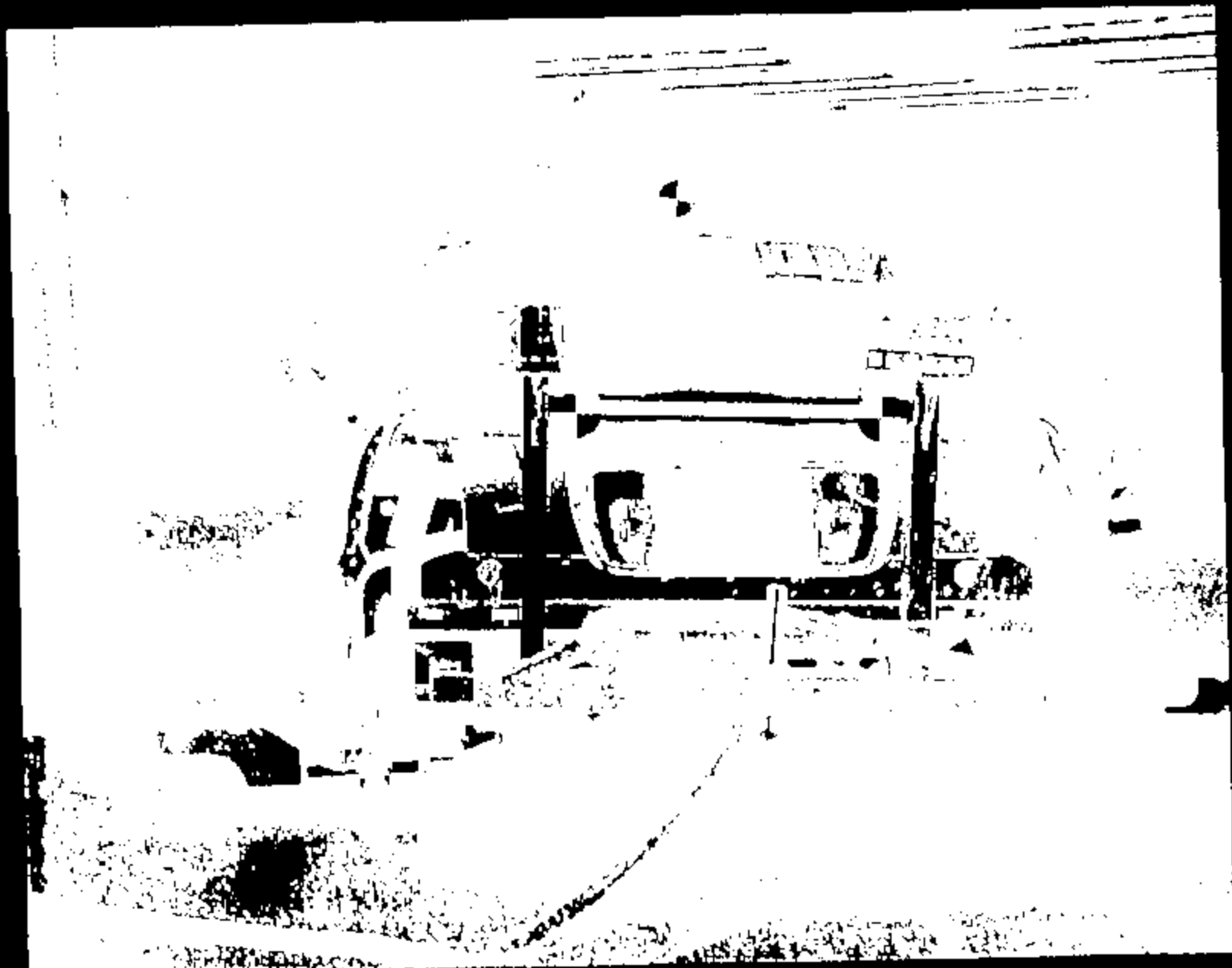
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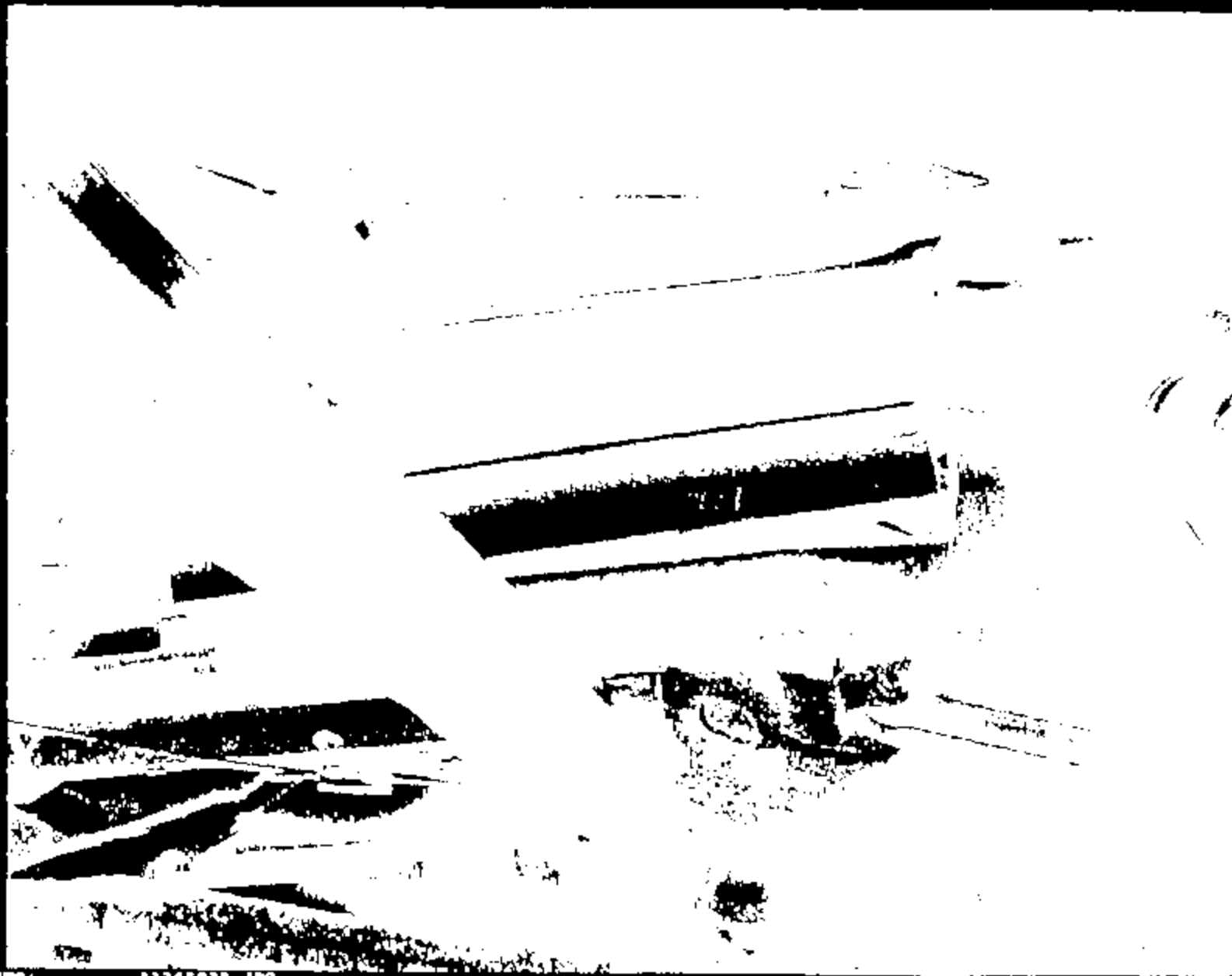
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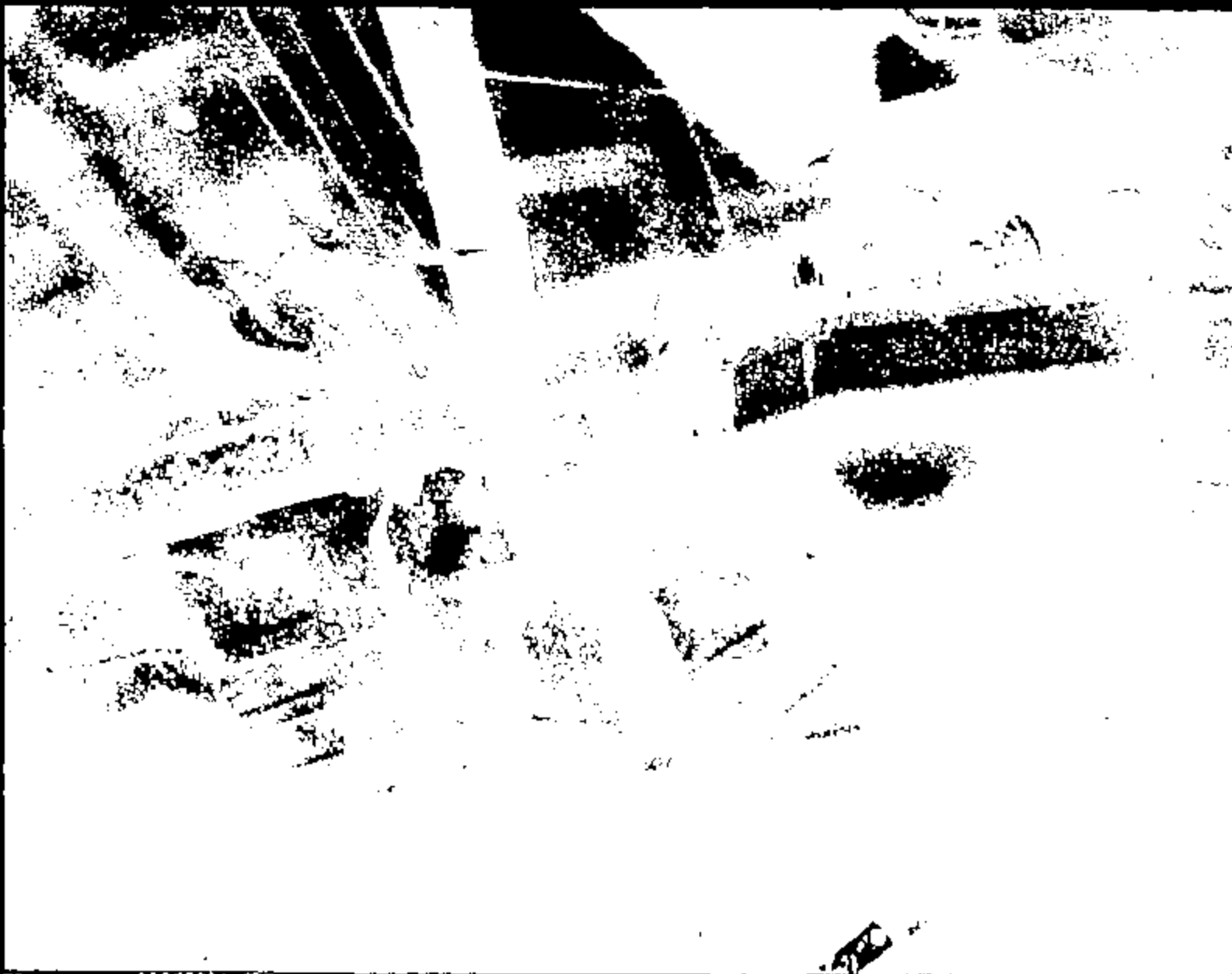
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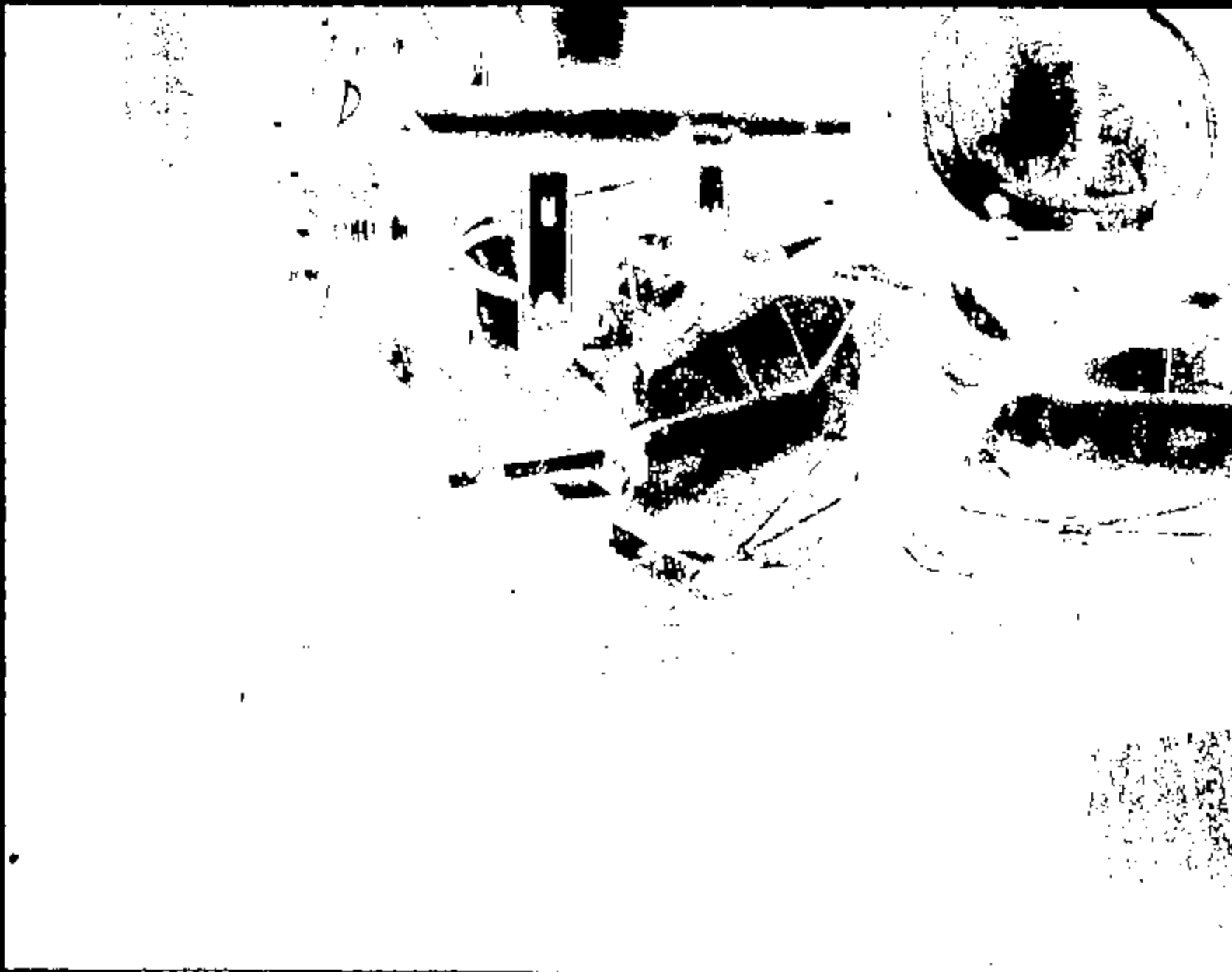


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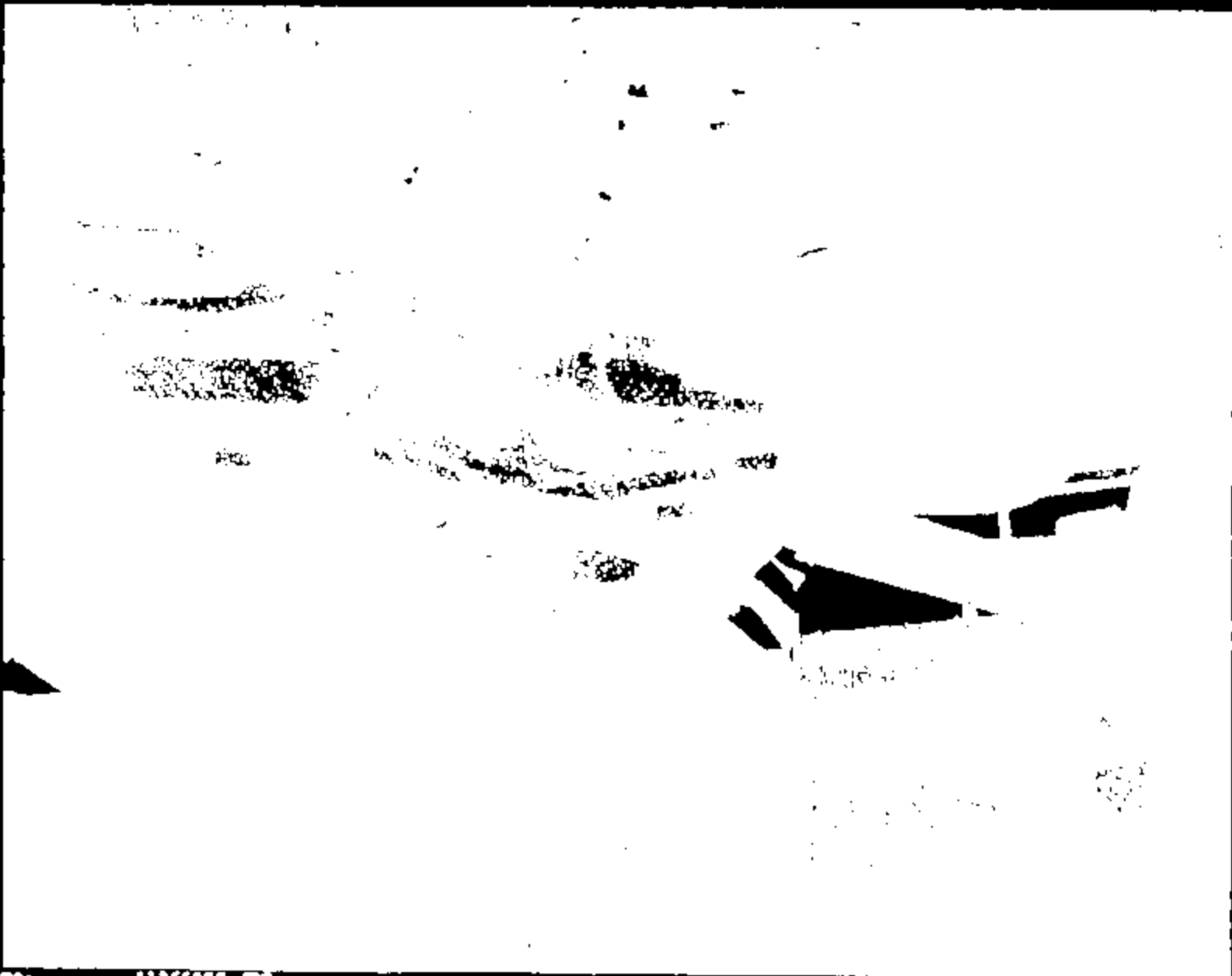


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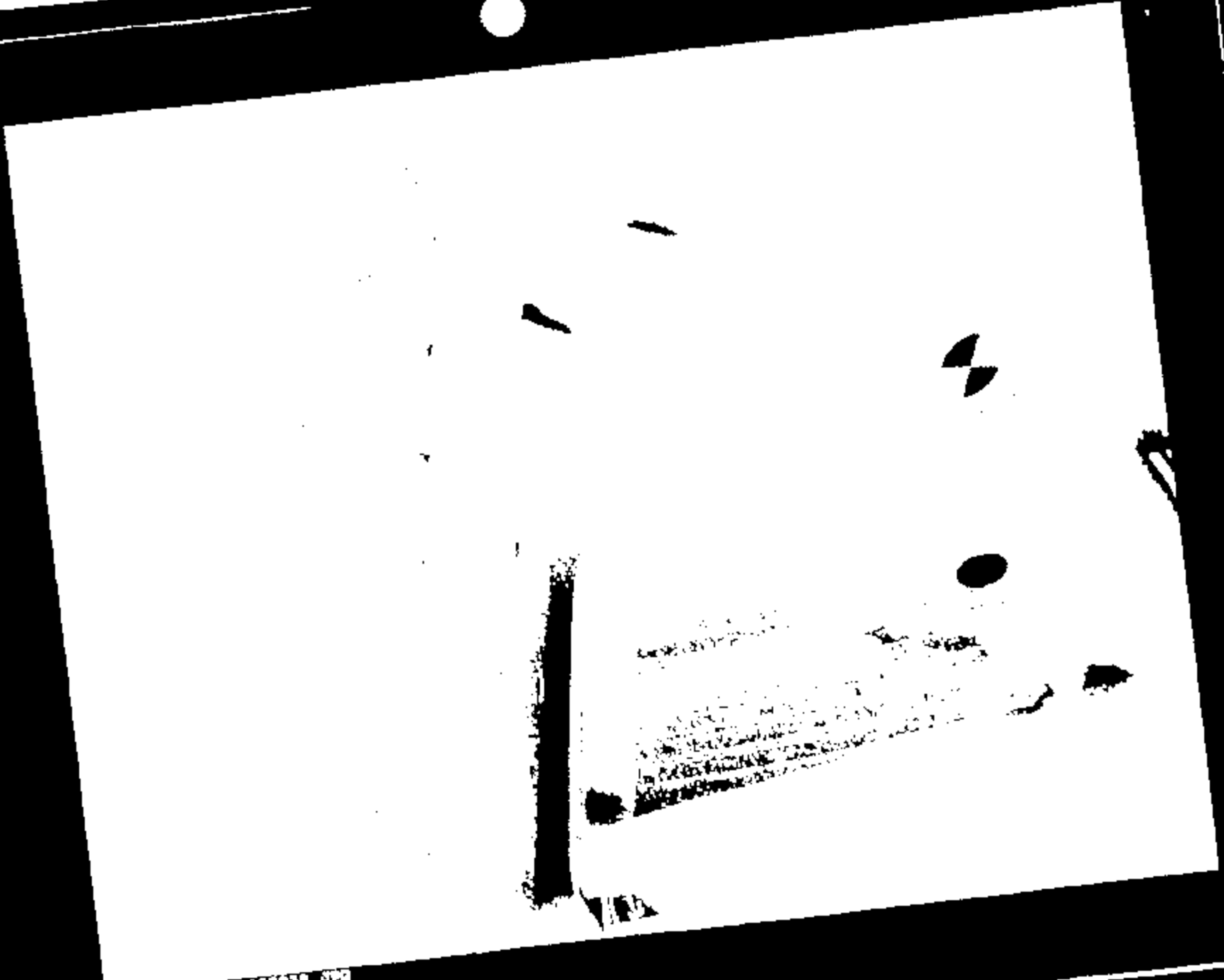
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TEST AUTHORIZATION				TEST ORDER NUMBER: T83827					
TO: Dean Foulesnas CC: Kirk Arthur				REQUEST DATE:	REQUESTED COMPLETION DATE:				
				12/12/98		12/18/98			
				REQUEST NUMBER:		PROJECT NUMBER:			
N/A		N/A							
REQUESTING ACTIVITY:				Vehicle Crash Safety					
TITLE OF TEST: (speed) (test description)				PARTS DUE DATE:					
2001 FN145 15mph LH Side Pole (350mm) Use rollers				12/18/98					
TYPE OF TEST:		VIN # or IDENTIFICATION		VEHICLE MODEL & YEAR		PROJ. OR ENCL. LETTER:			
[X] VEHICLE [] BENCH		VC18007 - 289W111		2001 FN145		NA			
[] LABORATORY [] OTHER		1LNW82520Y614122		TEST CONDUCTED TO		DISPOSITION OF PARTS:			
ENGINE NO. DISPL. CARB:		TRANSMISSION:		AXLE RATIO:		CERTIFY CONTROL ITEM			
4.8L V6		4R70W		N/A		COMPLIANCE WITH			
TYPE OF FUEL:		CONVERTER:		IGNITION TIMING:		GOV. REGULATIONS:			
None		N/A		N/A		Yes			
ORANGE OIL AND CAPACITY (L):		TIRE SIZE AND PLY RATING:		REPORT CATEGORIES:		PROCUREMENT REQ ?			
N/A		P225R13		[X] ENGINEERING		[] YES [X] NO			
VEHICLE TEST WEIGHT (lbs):		TIRE PRESSURE (psi):		[X] DATA		IF YES, GIVE CODE			
FRONT REAR TOTAL		FRONT REAR		[X] RAW DATA		MAIL REPORT TO:			
2380 2285 4665		32 32				BLDG: Eng 22			
						MAIL DROP: MD1235			
						ADDRESS: 28006			
1. OBJECT OF TEST 2. TEST PROCEDURE 3. ITEMS TO BE TESTED (NAME, NUMBER, QUANTITY)									
1) Conduct:		(speed) 15 mph	(year) 2001	(vehicle) FN145	(level) AP2	<div style="border: 1px solid black; padding: 5px;"> <p>"RECORD COPY"</p> <p>Schedule No. <u>2-7-12</u></p> <p>Retain Until <u>2018</u></p> </div>			
		LH Side Pole (350mm) Use rollers							
2) Velocity At Impact:		15mph	3) Vehicle Year:		2001				
Remote Fire Time:		14 ms	Vehicle Line:		FN145				
Positioning procedure:		ST-15	Vehicle Level:		AP2				
Contacts:		(name) Jennifer Wozniak	(phone) 24-64541	(pager) JWCZ	Estimated test cost =				
		Emory Maier	64-57542	EMEI	300,000.00				
		Chris Jackson	32-37880	CJAC					
REQUESTING SECT. NO:	WORK ORDER/WORK TASK	ISSUED/REQUESTED BY:	PHONE:	APPROVAL/Job: Arthur	TEST TYPE:	REQ:	BOOK OFF DATE:		
T-651	J19	Jennifer Wozniak	24-64541	30-05180	NA	NA	NA		
REQUESTER: DO NOT WRITE BELOW THIS LINE									
WORK STANDARDS NUMBER:				TEST DESCRIPTION:					
MANDATORY				OPTIONAL					
TEST ORDER NO:	CATEGORY	RESP. SECTION:	EST. COMP. DATE:	PRO	TEST ENCL. INITIALS:	UNIT CODE:	TEST ORDER DATE:	USER CODE:	PROD. CODE:
PERFORMING SECTION	HOURS	MATERIAL COST	COMP. COST	PARTS DUE	EST. START DATE	EST. COMP. DATE	STATUS	PERCENT COMPLETE	
		\$	\$						
TOTAL		\$							

Prepared/Checked: Jennifer Wozniak
 Printed: 05/19/98
 Drawing Prod. Control

J. Wozniak
12/19/98

Form 4, T83827
 Test Authorization
 Page 1 of 10

Auto Encl
 User: JWCZ
 Job: 30-05180
 Project: 28006

General Request Information

Test Mode

15mph LH Side Pole (350mm) Use rollers

Test Objectives: *Con (C) Verif (V) Dev (D) Audit (A) Safety Guideline (SG)*

Regulatory

FMVSS 204 - Steering Wheel Displacement
 FMVSS 208 - Frontal Occupant Protection
 FMVSS 212 - Wind Shield Retention
 FMVSS 214 - Side Impact Protection
 FMVSS 219 - Windshield Zone Intrusion
 Film Analysis
 Template
 FMVSS 301 - Fuel System Integrity
 Rollover
 Pressure Check
 FMVSS 303 - NGV Fuel System Integrity
 Rollover
 Pressure Check
 74/297/EEC (ECE 12) - Protection of the Driver Against Steering Mechanism
 ECE 32 - Rear Impact Testing (Occupant Survival Space)
 ECE 38 - Frontal Impact (Occupant Survival Space)
 ECE 84 - Prevention of Fire Risk
 88/74/EC - Frontal Offset
 ECE / M / 133 STEP II - 300mm Barrier Side Impact
Ford Automotive Operations Safety Design Guidelines
 Front FAO Safety Design Guidelines (Includes Door Performance)
 Offset Frontal FAO Safety Design Guidelines
 Interior Side Impact Protection FAO Safety Design Guidelines
 Rear Impact (Includes Door Performance)
 Fuel System Performance FAO Safety Design Guidelines
Other
 D Sensor Development
 Other, Specify: _____

Primary Test Vehicle Information

Use (Target/Bullet):	Bullet
Model Year:	2001
Vehicle Program:	FN145
Vehicle Name:	Town Car
Body Style:	sedan
Build Number:	VC18007
Tag Number:	500W/111
VIN Number:	1LNHM02W5KY014122
Fuel System Rated Capacity:	19 gallons
Prototype Level:	AP2
Drive Side:	LH

Special Prep/Build Instructions Primary Vehicle

Special Build Instructions

- Remove Side View Mirrors
- Remove Headrests
- Remove Hood
- Remove Arm rest
- Remove Bottom of Bumper Cover
- Cut Off Brake & Clutch Pedal
- Color Contrast Under Hood Components

Other, Specify:

- Install RCM Bracket, RCM, Takata Sensors
- DISABLE FRONT AIRBAGS

Pyro Restraints Usage

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

Other, Specify:

- Remote Fire Time: 14 ms

(No fire time listed if sensor fired OR if no pyro restraints are used)

Special Pre-Test Preparation

Other, Specify:

Occupant / ATD Request Primary Vehicle

	Occupant 1	Occupant 2
Type	BioSID	N/A
Instrumentation Level*	Uninstrumented	N/A
In-Vehicle Location	Left Front	N/A
Verify:		
Seat Position Long	Mid track travel	N/A
Seat Position Vert	Full down	N/A
Seat Back Angle	29 degrees	N/A
Positioning Procedure	BT-15	N/A
Use Foot Rest	Yes	N/A
Take Seat Track Video	N/A	N/A
Special Positioning Instructions		
Dummy Adjustment		
(arm angle)	N/A	N/A
Occupant Belted	Yes	N/A

*See instrumentation request for detailed instrumentation information.

Test Conditions - Final Prep

T.O. #: TR3027

Final Prep Contacts

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

	Test Engineer	Request Engineer	Build Coordinator
Name:	<u>G. Williams</u>	<u>Jennifer Wogalak</u>	<u>Erroy Meyer</u>
Phone:	<u>39-08818</u>	<u>24-54541</u>	<u>84-57542</u>
Pager:	<u>GWL</u>	<u>JWOZ</u>	<u>EM9</u>

Tire Pressure (psi)

Front: 32 Rear: 32

Fuel System

Fuel Tank & System to Contain: None

<u>N/A</u>	=	<u>N/A</u>	x	<u>19 gallons</u>
<u>Fill Level</u>	=	<u>%</u>	x	<u>Capacity</u>

Weight Targets

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

Curb Weight (lbs)	Requested Test Weight (lbs)	Acceptable Test Weight Variance (lbs)		Actual Test Weight
		High (+)	Low (-)	
Front: <u>2850</u>	<u>2900</u>	Front: <u>12.5</u>	<u> </u>	Front: <u>2561</u>
Rear: <u>1795</u>	<u>2095</u>	Rear: <u>12.5</u>	<u> </u>	Rear: <u>2237</u>
Total: <u>4645</u>	<u>5000</u>	Total: <u>25</u>	<u> </u>	Total: <u>4798</u>

Rated Luggage Load: 200 lbs X 55% option weight Max option weight

Target test weight is 4800lbs including casters.

Max acceptable weight is 4770lbs (max test weight) including casters.

CONTACT REQUESTOR IF TARGET WEIGHT CANNOT BE ACHIEVED.

Simulate/Verify at Weigh-Up

 Dummy Weight

 On Board Camera Count

Weight Addition (Restrictions)

Do NOT place any weight in the following locations:

<u> </u> Air Cleaner	<u> </u> Engine	<u>X</u> Doors
<u> </u> Battery	<u> </u> Fan Box/Blroud	<u>X</u> Foot Well - Front
<u> </u> Bottle - Coolant	<u> </u> Headlamp Opngs	<u>X</u> Foot Well - Rear
<u> </u> Bottle - Washer	<u> </u> Radiator	<u>X</u> Quarter Panels
Other: <u> </u>		<u> </u> Trunk Floor

Ride Heights

Measure @ Test Weight

Front: 718

Rear: 707

Measure

From: Wheel Top

To: Ground

Additional Remarks

Dimensional Analysis Request Primary Vehicle

Side Impacts

PRE POST

PRE	POST		
X		404	Control Points (CAR)
		405	Control Points (TRUCK)
		409	Body Targets & Orientation Points (Wheel Lips)
		411	A.B.C. Pillars
		417	Pre-Crash Lateral Seat CL's, H-Pos, etc
		418	NHTSA Barrier face Profiles (Mid-Bumper, Mid-Stack, Top of Barrier)
		419	European Barrier face Profiles (Mid-Bumper, Mid-Stack, Top of Barrier)
	X	421	Roof line exterior section
	X	423	Beltline exterior section (1st 50mm Body line below glass/weather strip)
	X	425	Mid-line exterior section (plan view @ 800 mm Body line)
	X	427	Character line exterior section (plan view @ 800 mm Body line)
	X	429	Bottom of door exterior section
	X	431	Rocker line exterior section (1st 10 mm Body line below door opening)
X	X	433	Roof line interior section
X	X	435	Beltline interior section
	X	437	Hip line interior section
	X	439	Hinge Pillar exterior section (1st 50mm Body line forward of Hinge pillar)
	X	439	2500 mm Body line interior and exterior sections
	X	440	Front H-Point Mid-Seat Location interior and exterior sections (per package)
X	X	441	B-Pillar interior and exterior sections (1st 50mm Body line rearward of B-pillar)
		442	Rear H-Point Location interior and exterior sections (per package)
	X		Pole location of center of dummy head CG impact
X			Exact x, y, z coordinates of accelerometer locations

Film Analysis & Photographic Services Request**Side Impact Film Analysis**

Impact Speed
 Impact Angle
 Dummy Head wrt Vehicle Lateral
 Dummy Head wrt Vehicle Vertical
 Dummy Head wrt Vehicle Resultant
 Cart wrt Vehicle Impact Point
 Dummy Chest wrt Vehicle
 Cart wrt Vehicle Intrusion (overhead)
 Vehicle wrt Pole Intrusion (overhead)
 Dummy Head wrt Pole

Other, Specify:

Still Photography

_____ Copies of Still Photo Proof Sheets Required
 _____ Copies of Still Photos (4X5) Required
 Pre Test Documentation Photographs
 Post Test Documentation Photographs

High Speed Photographic Requirements

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

High Speed Cameras for Side Impact**On-Board Vehicle**

Front Dummy from Vehicle Hood
 Front Dummy from Opposite Window Opening
 Rear Dummy from Opposite Window Opening
 Rear Dummy from Vehicle Trunk
 View of Front Seat to Show Dummy Interaction with Trim from Front (Fiber Optic)
 View of Front Seat to Show Dummy Interaction with Trim from Rear

Floor Coverage

- Full Left View of Impact
- Full Right View of Impact
- Front 3/4 View of Impact
- Rear 3/4 View of Impact
- View of Cart for Velocity determination

Pit Coverage

- View of impacted side of vehicle with pole

Overhead Coverage

- Overall view of impacted vehicle side including pole
- View of impacted vehicle side focus on front door opening area

All Other High Speed Photography

-
-

Instrumentation and Data Processing Request

Primary Vehicle Structural Instrumentation - Side Impact

ACCELEROMETERS:		Long	Vert	Lat
<input type="checkbox"/>	L/ A-PILLAR_INSIDE @_ROCKER	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	L/ A-PILLAR_INSIDE @_HINGE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	R/ A-PILLAR_INSIDE @_HINGE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	L/ F_DOOR @_BELTLINE_MID	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	L/ F_DOOR_OVER_ARMREST	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	L/ F_DOOR_REAR_OF_SEAT_HPT	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	L/ F_DOOR_SPEAKER_HOLE	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	L/ B-PILLAR_INSIDE @_ROOF	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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<input checked="" type="checkbox"/>	L/ B-PILLAR_INSIDE @_ROCKER	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	L/ R_DOOR @_BELTLINE_MID	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	L/ R_DOOR_OVER_ARMREST	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	L/ ROCKER @_FRONT_SEAT_MID	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	L/ ROCKER @_REAR_SEAT_MID	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	R/ ROCKER @_FRONT_SEAT_MID	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	R/ ROCKER @_REAR_SEAT_MID	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/>	FRONT_FLOOR_PANEL @_CL	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	FLOOR_XMR @_L/F_SEAT_CL	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	FLOOR_XMR @_R/F_SEAT_CL	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	CL_TUNNEL @_FRONT_SEAT	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	REAR_FLOOR_PANEL_ABOVE_AISLE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	NEAR FUEL INERTIA SWITCH	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Primary Vehicle Systems Instrumentation**SENSOR ACCELS:** See Sensor Map**MONITOR AIR BAG SENSORS:** See Sensor Map Monitor Closure of Each Specified Sensor
 Monitor Closures of Single Ft Elect Sensor**MONITOR AIR BAGS STATUS:** Driver Side Airbag Squib Voltage
 Driver Side Airbag Squib Current
 Driver Bag Pressure
 Passenger Squib Voltage
 Passenger Squib Current
 Passenger Bag Pressure
 Passenger Inflator Pressure**RESTRAINT LOADS:** Left Belt Tongue - Strain Gaged
 Left Pyro-Technic Buckle Squib Voltage
 Left Pyro-Technic Buckle Squib Current
 Right Belt Tongue - Strain Gaged
 Right Pyro-Technic Buckle Squib Voltage
 Right Pyro-Technic Buckle Squib Current
 Left Lap Belt at Anchor Load
 Left Torso Belt at Retractor Load
 Left Torso Belt at D-ring Load
 Right Lap Belt at Anchor Load
 Right Torso Belt at Retractor Load
 Right Torso Belt at D-ring Load**STEERING COLUMN:** Stroke Break Wires
 Tilt Mechanism Break Wires
 String Pot
 Load Cell (5 Axis)**SWITCHES:** Engine to Rad Support left
 Engine to Rad Support center
 Engine to Rad Support right
 Brake booster to shock tower**FUEL SYSTEM:** Inertia Fuel System Cut-Off Switch**ANGULAR MOTION SENSORS**
VEHICLE STRING POTS

List of Test Contacts

	Last name, First name	Phone	Pager	Profs
Requestor	Wozniak, Jennifer	24-84541	JWOZ	JWOZNA1
Approving supervisor	Arthur, Kirk	39-06158	KART	KARTHURS
Build coordinator	Meler, Emory	84-57542	EMEJ	EMELER
Test engineer				
Other	Jackson, Chris	32-37888	CJAC	CJACKS24
Senior	Kennitz, Erich	24-81802	EKEM	EKENITZ

	Last name	Phone	Pager	Profs
Tablets	McHale, Mike	32-38621	MMCH	MMCHALE
Instrument panel				
Restraints				
Air bag (driver)				
Air bag (passenger)				
Steering column				

CRTS 0011365

Request/Originator: Jennifer Wozniak
 Project: 8400 Fusible Studs
 Delivery Plan: Ongoing

Report #: 78007
 Contract #: 84000000
 Page 11 of 18

Auto TA
 Ver 2.000 - Update Sep 16, 1999
 Author: Channing/Pagano/Ch

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TEST AUTHORIZATION NUMBER:

TB3027

CONTACTS:

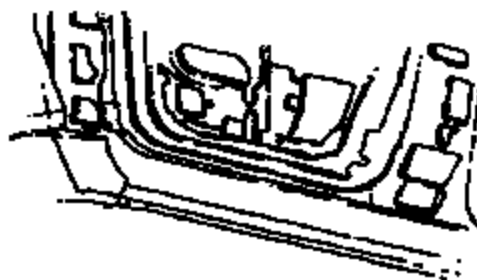
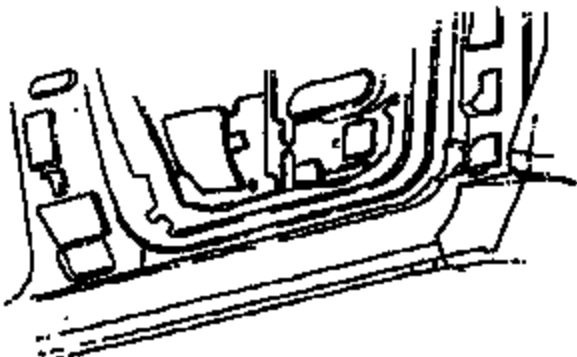
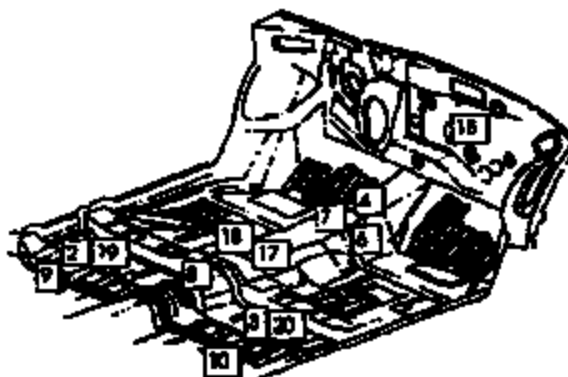
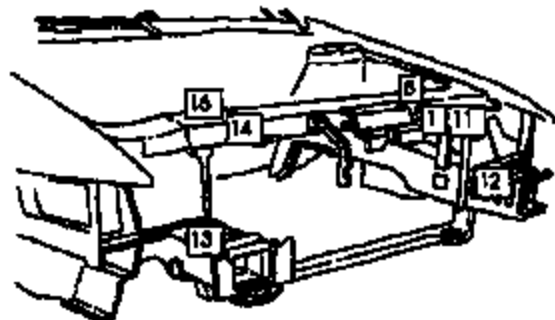
name	phone	pager	prots
Jennifer Wozniak	24-84541	JWOZ	JWOZNA1
Emory Meter	84-57542	EME1	EMEIER
Chris Jackson	32-37899	CJAC	CJACKS24

TEST ENGINEER:

Program: 2001 EN / FN
 Vehicle ID: E90W111
 Build level: AP2 FN145 Side
 Test Mode: 15mph LH Pole

SENSOR MAP

Engineer: Erich Kemnitz
 Phone #: 248-1802
 Date: 02/18/1999
 Time: 8:30 AM



Location Name	Type	Output	Nominal (+/-)	Manufacturer	Serial #
1 L/C/Front RAD SUPPORT_SM		Sensor	Takata FCS No ODAS output		FCS-GEN-A43
2 L/F FLOOR PAN @ #2 XMBR CTR_SM		Sensor	Takata SCS No ODAS output		SCS-GEN-A44
3 R/F FLOOR PAN @ #2 XMBR CTR_SM		Sensor	Takata SCS No ODAS output		SCS-GEN-A45
4 CTR TUNNEL @ DASH_SM	occol	TRAX	Near RCM		
6 L/C/Front RAD SUPPORT_SM	occol	LONG			
6 CTR TUNNEL @ DASH_RCM	occol	TRAX	On RCM		RCM-GEN-A42
7 CTR TUNNEL @ DASH_TAK1	TAKATA RCM1	Sensor	2.5v (+/- 200mV)	10 / 0 V	ST001
CTR TUNNEL @ DASH_TAK2	TAKATA RCM2		2.5v (+/- 200mV)	10 / 0 V	ST001
CTR TUNNEL @ DASH_TAK3	TAKATA RCM3		2.5v (+/- 200mV)	10 / 0 V	ST001
CTR TUNNEL @ DASH_TAK4	TAKATA RCM4		2.5v (+/- 200mV)	10 / 0 V	ST001
8 C/L_TN_BETWEEN_SEATS_SM	occol	TRAX			
9 L/F FLOOR PAN @ #2 XMBR CTR_SM	occol	TRAX	Near Takata SCS Sensor		
10 R/F FLOOR PAN @ #2 XMBR CTR_SM	occol	TRAX	Near Takata SCS Sensor		
11 L/C/Front RAD SUPPORT_FCS	occol	LONG	On FCS sensor		
12 L/RAIL PADS_BRD	BREED MSS1	1	Sensor output		SD004-1
Breed Magnetostrictive Crash Sensor S/N TBD Mounted on left frame rail			12V Power Input ID trigger input		
13 R/RAIL PADS_BRD	BREED MSS1	1	Sensor output		SD004-1
Breed Magnetostrictive Crash Sensor S/N TBD Mounted on right frame rail			12V Power Input 10 trigger input		
14 R/C/Front RAD SUPPORT_BRD			Breed Ball Tube sensor. No ODAS output		
Ball and Tube Sensor S/N ???					
15 R/DASH PANEL INNER_SM	BREED OPS1	Sensor	4.5-5.0V	1-6.5V	
Breed Occupant Position Sensor In IP In position at this location.					
16 L/C/Front RAD SUPPORT_SM	occol	LONG			

*delete
 8-15
 Erich Kemnitz
 3/3/99*

Location Name	Type	Output	Sensor Channels only		
			Nominal (+/-)	Max/min	Serial #
17 CA/TN1 BETWEEN F/BEATS_BRD1	BREED_RCM1	Sensor	7	+/- 10	88001-1
CA/TN1 BETWEEN F/BEATS_BRD2	BREED_RCM2		7	+/- 10	88001-2
CA/TN1 BETWEEN F/BEATS_BRD3	BREED_RCM3		1.2	+/- 10	88001-3
CA/TN1 BETWEEN F/BEATS_BRD4	BREED_RCM4		1.2	+/- 10	88001-4
CA/TN1 BETWEEN F/BEATS_BRD5	BREED_RCM5		8V	8.5 V	88001-5
Breed BMS System S/N ????????					
18 CA/TN1 BETWEEN F/BEATS_RCM	occol	LONG	On side of Breed RCM		
19 LF FLOOR PAN @ #2 XMBR CTR_BCS	occol	LAT	On SCS Sensor		
20 RF FLOOR PAN @ #2 XMBR CTR_BCS	occol	LAT	On SCS Sensor		

*Delete 11-18
3/3/99*

Contacts: Ford: Erich Kewitz 248-1602
 Takata: Mike Michale 313-8621
 Breed: Bill Toth 805-489-4539
 David Nilo 248-426-3706

NOTE: Serial numbers will be updated as parts arrive.
 Breed parts are ride along only, and will not hold up any tests.

REPORT NO. <i>7-2-12</i> DATE <i>2019</i>
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CONFIDENTIAL

FINAL TEST REPORT

Global Test Operations
Advanced Vehicle Technology

TO:	J. Wozniak	Test Order No. Work Task W. O. No. Test Date Date Reported Sheet	T-B4782 J188K 4/27/88 10/25/99 1 of 92
SUBJECT:	Crash Test 11426 (90° Left Side Fixed Pole Impact at 14.0 ± 0.4 mph, 24.0 ± 0.6 km/h) - 2000.5 Lincoln Town Car (FN-146) 4-Door LWB Sedan		
REQUESTED BY:	Vehicle Crash Safety Department, Advanced Vehicle Technology - J. Wozniak		
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.		

M. Foster
M. Foster
Test Development Engineer

H. M. L.

Concur: H. Lesh
Section Supervisor
Operations Engineering Section

VEHICLE DATA:

Make and Model 2000.5 Lincoln Town Car (FN-145) 4-Door LWB Sedan
(Confirmation Prototype)

ID Numbers 1LNHM81WXXY087038, 306-W-000, VC000004

Power Train 4.6L, EFI, Automatic (40R70W) Transmission

Fuel Tank(s) Usable Capacity: 19.0 gal. (71.8L)
Test Condition: Empty

Front Seat(s) Type: Bucket
Cover: Leather
Tracks/Position: 6-Way Power/Mechanical Mid and Down
Seat Backs/Position: Adjustable/29.0° Rear of Vertical
Head Restraints/Position: Adjustable/Down

Restraint System LF: 3-Point Continuous Loop Active Belt and
Seat Back Side Air Bag

Occupants LF: BIO-SID Uninstrumented Dummy

Test Weight Front: 2400 lb (1089 kg)
Rear: 2338 lb (1061 kg)
Total: 4738 lb (2149 kg)

Tires Front: P225/60R16 32 psi (221 kPa)
Rear: P225/60R16 32 psi (221 kPa)
Spare: Removed

Significant Contents 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):

- Side Impact Occupant Crash Protection, ST-15 dated March 19, 1998.
- Proposed non-regulator crash test procedure.

1.1 Vehicle Alignment

The test vehicle impacted an 350 mm diameter steel pole structure, rigidly attached to the barrier face. The vertical steel pole was aligned so that the point of vehicle impact was centered on the test dummy's left front head center of gravity.

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 11426001 through 11426088.

TEST RESULTS:**1.0 Sensor Development**

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

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

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

2.0 Vehicle Crush, Film Analysis and/or Instrumentation Data

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

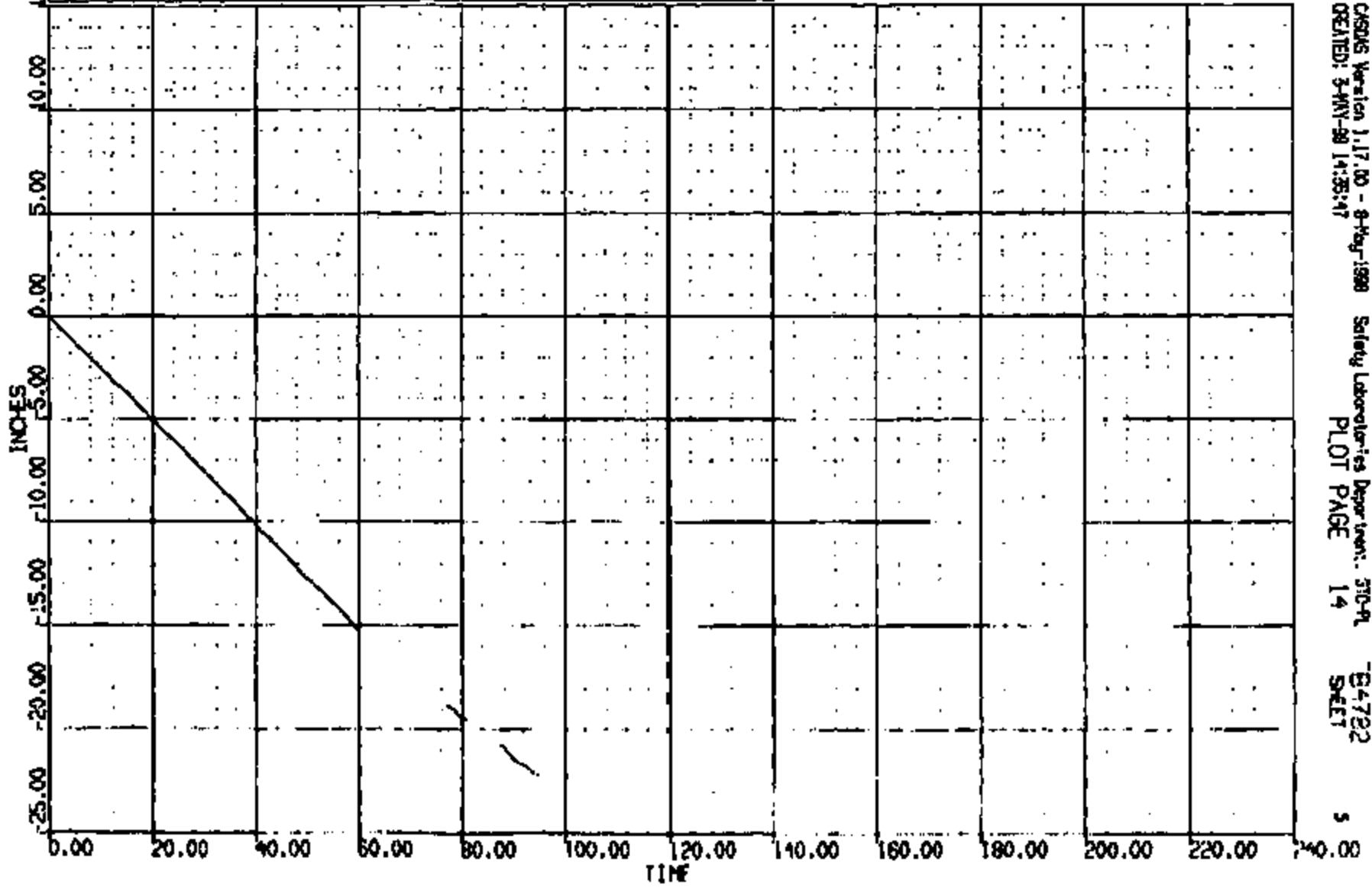
Time histories of vehicle dynamic displacements obtained from Film Analysis are included in this report.

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: 11426 TO: 784782 DATE: 980427 14:05:59
20006 FN-145LWB MOVING DEFORMABLE BA

(1) CRCT1426 DRVYR HEAD NRT POLE LAT DISP
MAX = 0.0000E+00 at 0.0000E+00 MS MIN = -22.20 at 95.00 MS **AXIS 1**



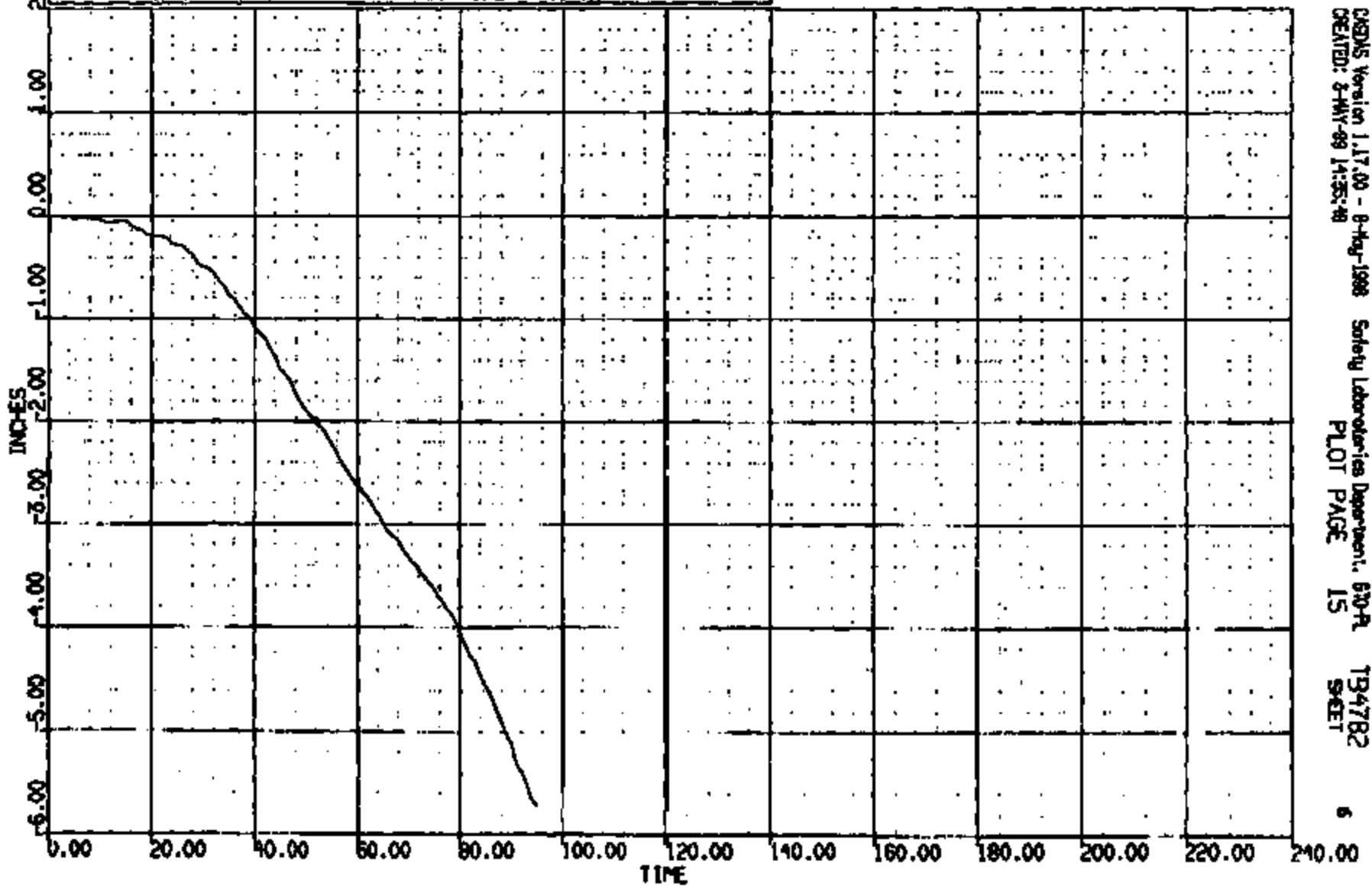
CASIMS Version 1.17.00 - 8-Aug-1998 Safety Laboratories Department: 370-91 E4722
CREATED: 3-AUG-98 14:35:47 PLOT PAGE 14 SHEET 5

ENTIRE PAGE CONFIDENTIAL

CRIS 0011426

CR R: 11426 TO: TS4782 DATE: 980427 14:06:39
20005 FN-148LWS MOVING DEFORMABLE BA

(0) CRCL1426 DRNR HEAD WRT ROOF C.L. AT A PLR LAT DISP
MAX = 0.000E+00 of 0.000E+00 IN MIN = -5.727 of 95.00 IN **AXIS 1**



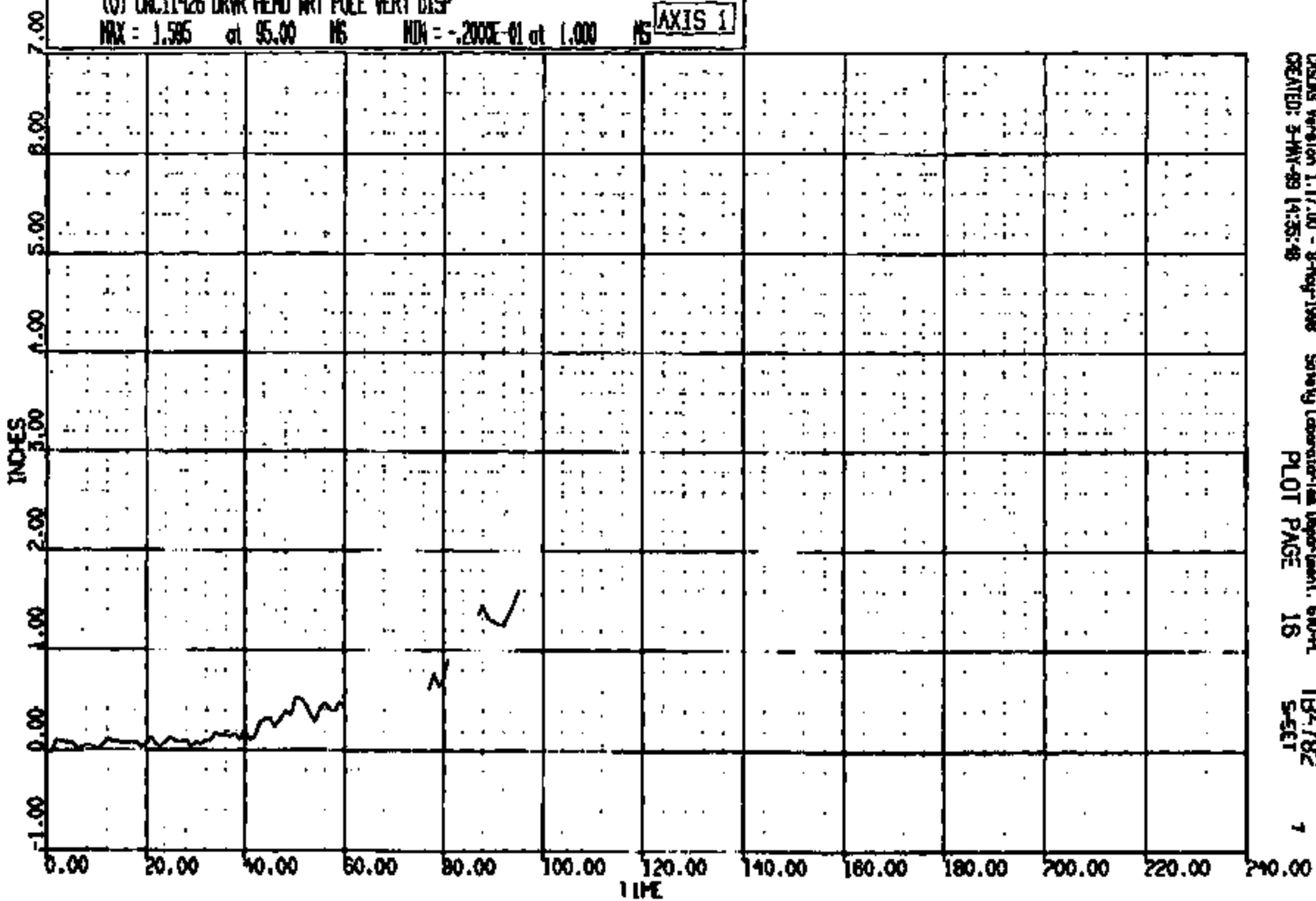
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CREATED: 8-MAY-89 14:35:40 PLOT PAGE 15 SHEET

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CRIS 0011426

CR #: 11426 TO: TB4782 DATE: 890427 14:05:39
20005 FN-146LWB MOVING DEFORMABLE BA

(0) CR11426 DRVR HEAD WRT POLE VERT DISP
MAX = 1.585 at 95.00 MS MIN = -.200E-01 at 1.000 MS **AXIS 1**



CRS285 Version 1.17.00 - 8-Aug-1988
CREATED: 3-MAY-89 14:35:48

Safety Laboratory Department, 610-PL
PLOT PAGE 16

TB4782
5-SET

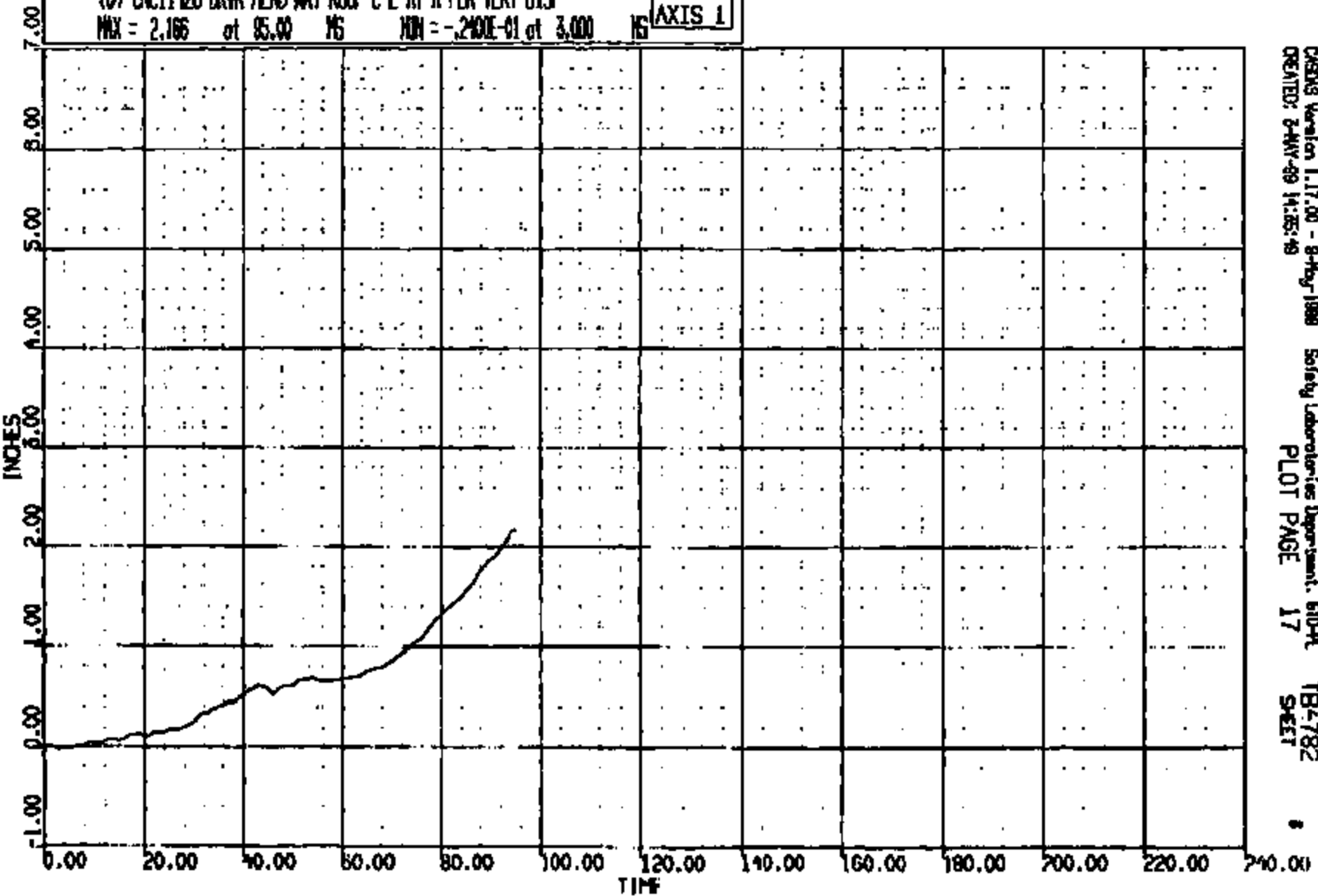
7

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CR11426

CR R: 11426 TO: TB4782 DATE: 880427 14:06:39
20005 FN-145LWB MOVING DEFORMABLE BA

(0) CR11426 DRVR HEAD WRT ROOF C/L AT A PLR VERT DISP
MAX = 2.166 at 85.00 MS MIN = -.240E-01 at 3.000 MS **AXIS 1**



CRS018 Version 1.17.00 - 8-May-1988 Safety Laboratories Department, STD-R
CREATED: 8-MAY-89 14:35:49 PLOT PAGE 17 TB4782
SHEET

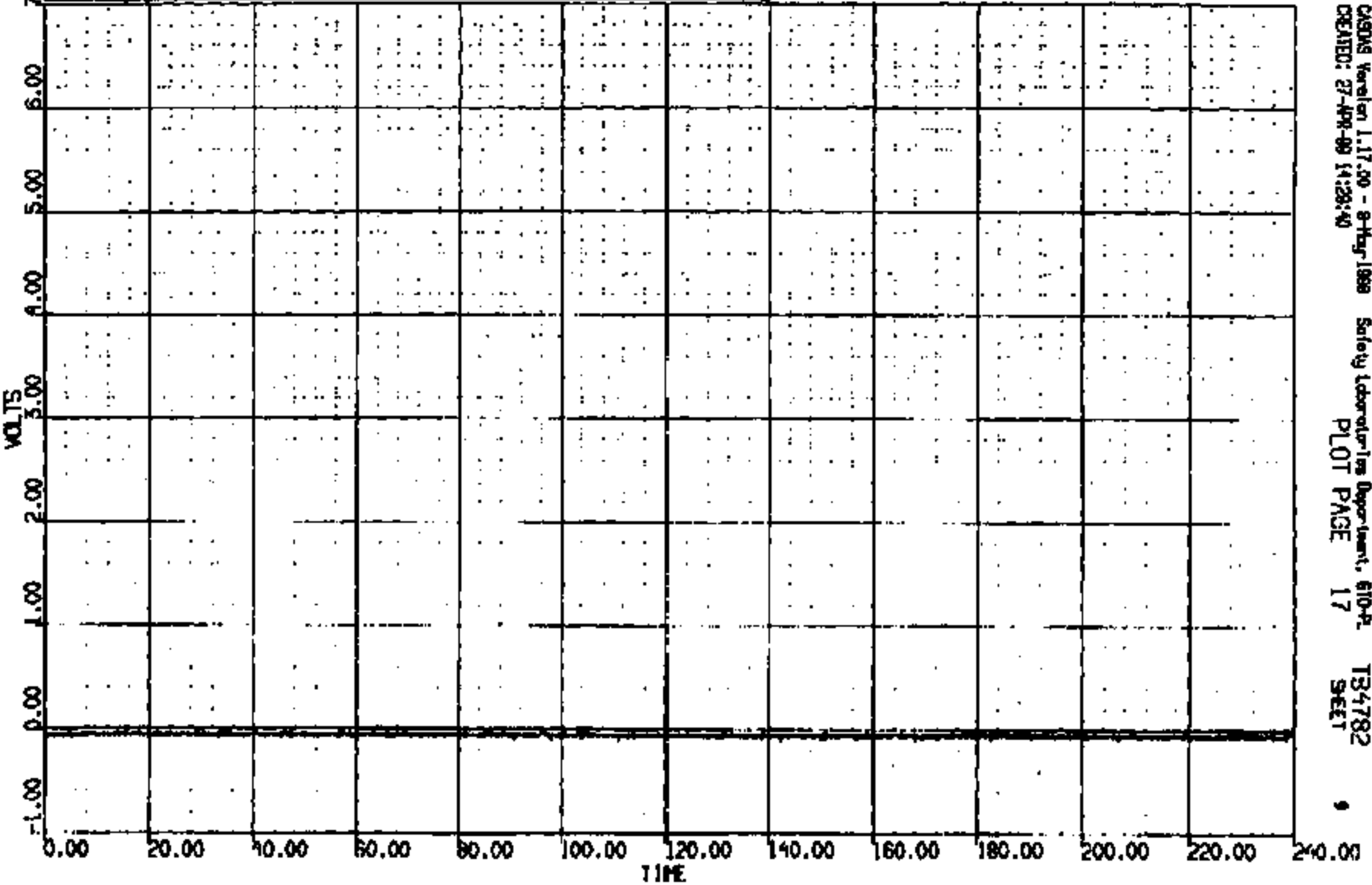
CRIS 0011426

ENTIRE PAGE CONFIDENTIAL

CR R: 11426 TO: Y84782 DATE: 990427 14:05:30
N0006 FN-145LWB MOVING DEFORMABLE BA

(3) CR11426T DRIVER SAB SCUB VOLTAGE 4000C
MAX = 0.241E-01 at 239.6 MS MIN = -.976E-01 at 33.28 MS

AXIS 1



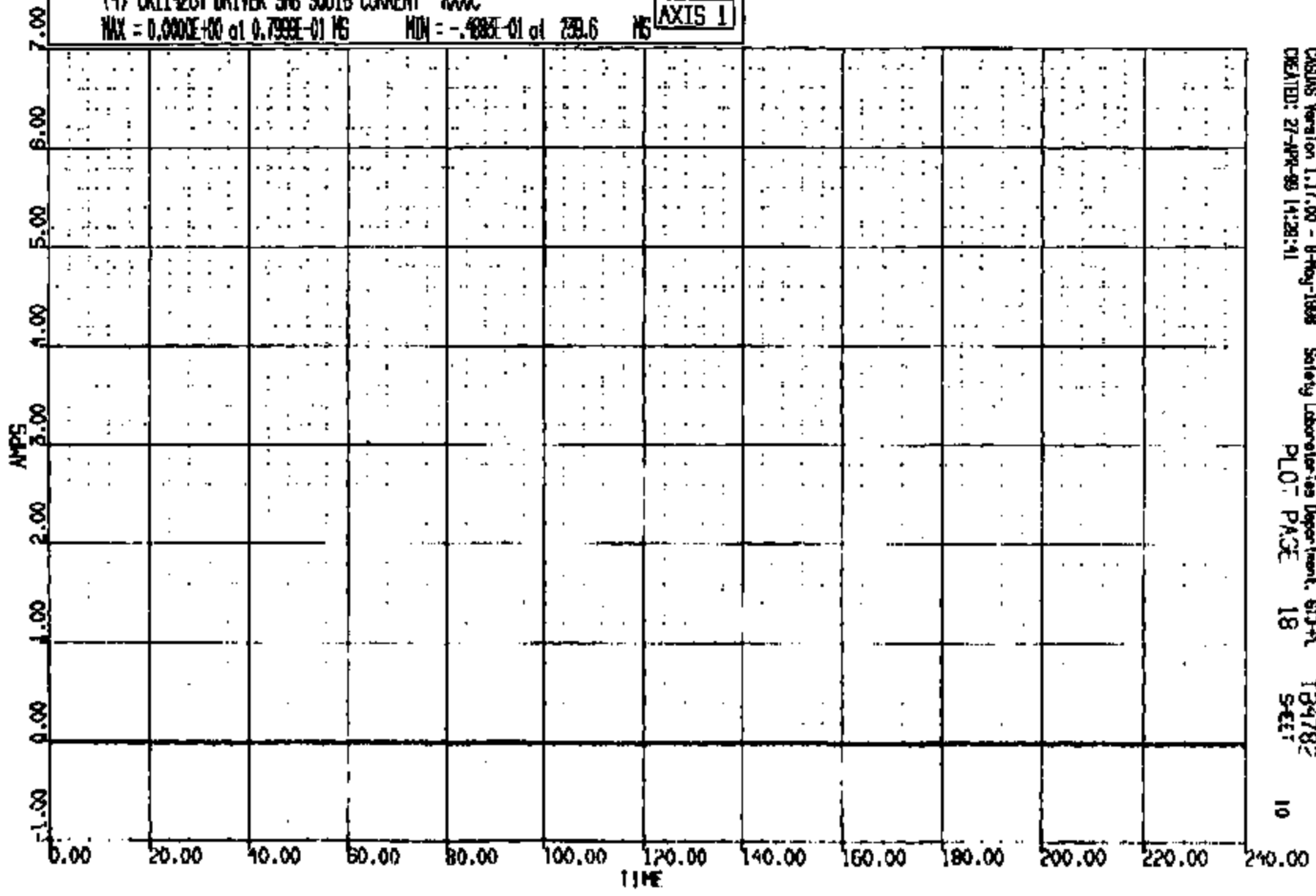
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CREATED: 27-APR-99 14:28:40 PLOT PAGE 17 SHEET 9

ENTIRE PAGE CONFIDENTIAL

CRIS 0011426

CR R: 11426 TO: TB4782 DATE: 890427 14:05:59
20005 FN-145LWB MOVING DEFORMABLE BA

(4) CR11426T DRIVER S4B SOUTH CURRENT 4000C
MAX = 0.0000E+00 at 0.7999E-01 MS MIN = -.488E-01 at 799.6 MS **AXIS 1**



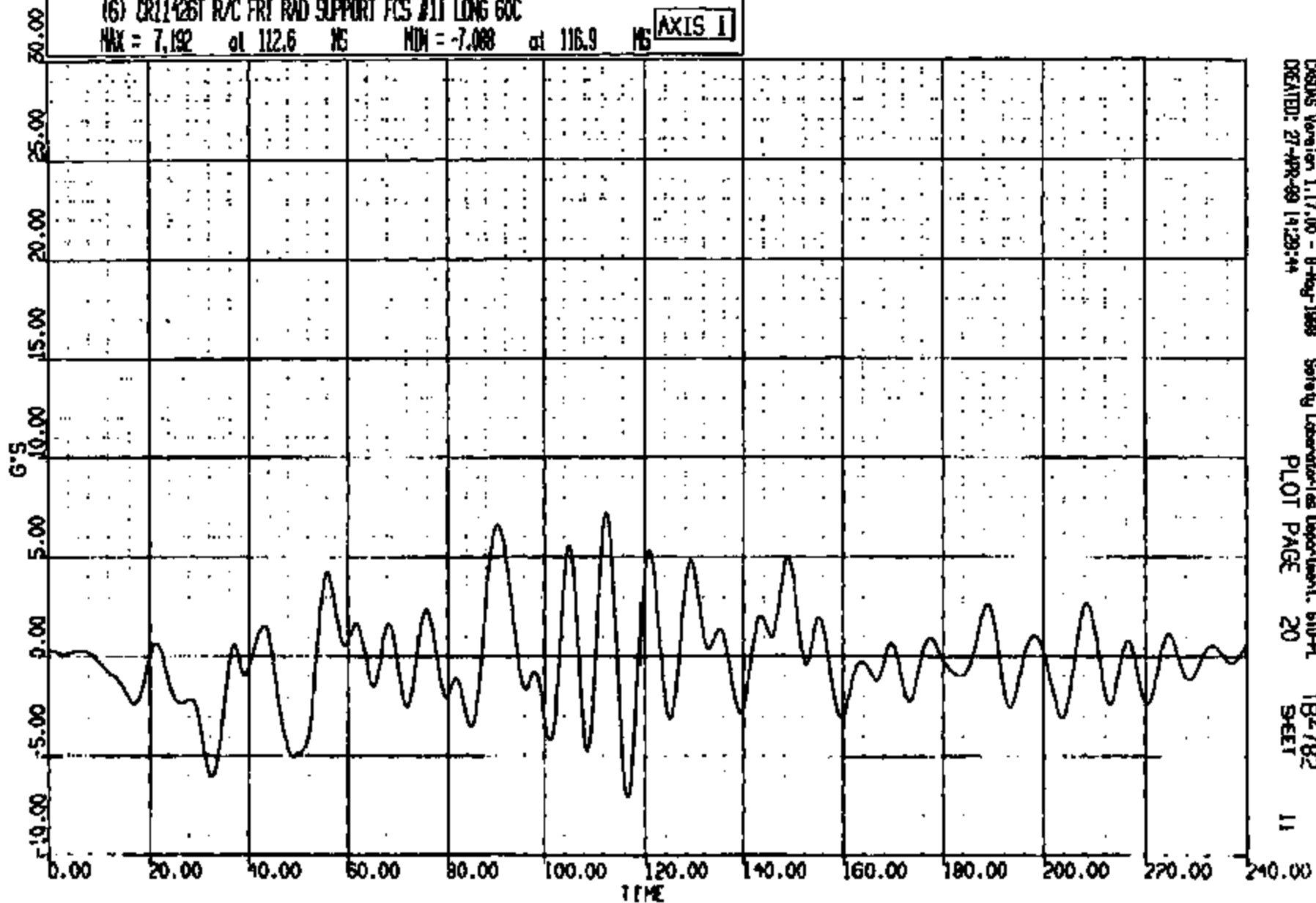
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CRIS 0011426

CR R: 11426 TO: TB4782 DATE: 890427 14:05:39
80006 FN-145LWB MOVING DEFORMABLE BA

(6) CR11426T R/C FRT RAD SUPPORT FCS #11 LONG 60C
MAX = 7.192 at 112.6 MS MIN = -7.088 at 116.9 MS **AXIS I**



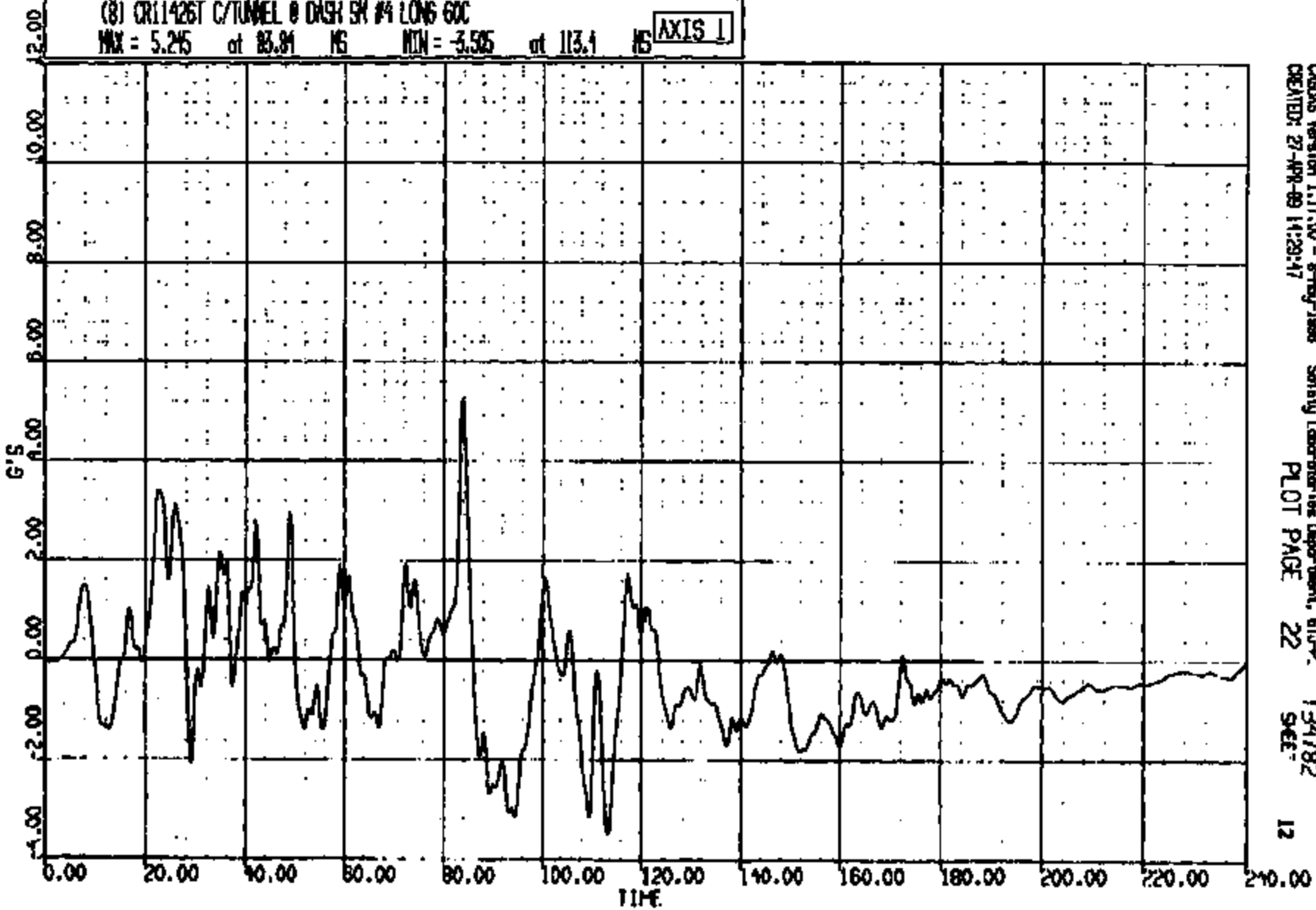
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CRIS 0011426

CR R: 11426 TO: T84782 DATE: 990427 14:05:59
20005 FN-145LWS MOVING DEFORMABLE BA

(8) CR11426T C/TUNNEL @ DASH SR #4 LONG 60C
MAX = 5.245 at 83.84 MS MIN = -3.505 at 113.1 MS **AXIS 1**



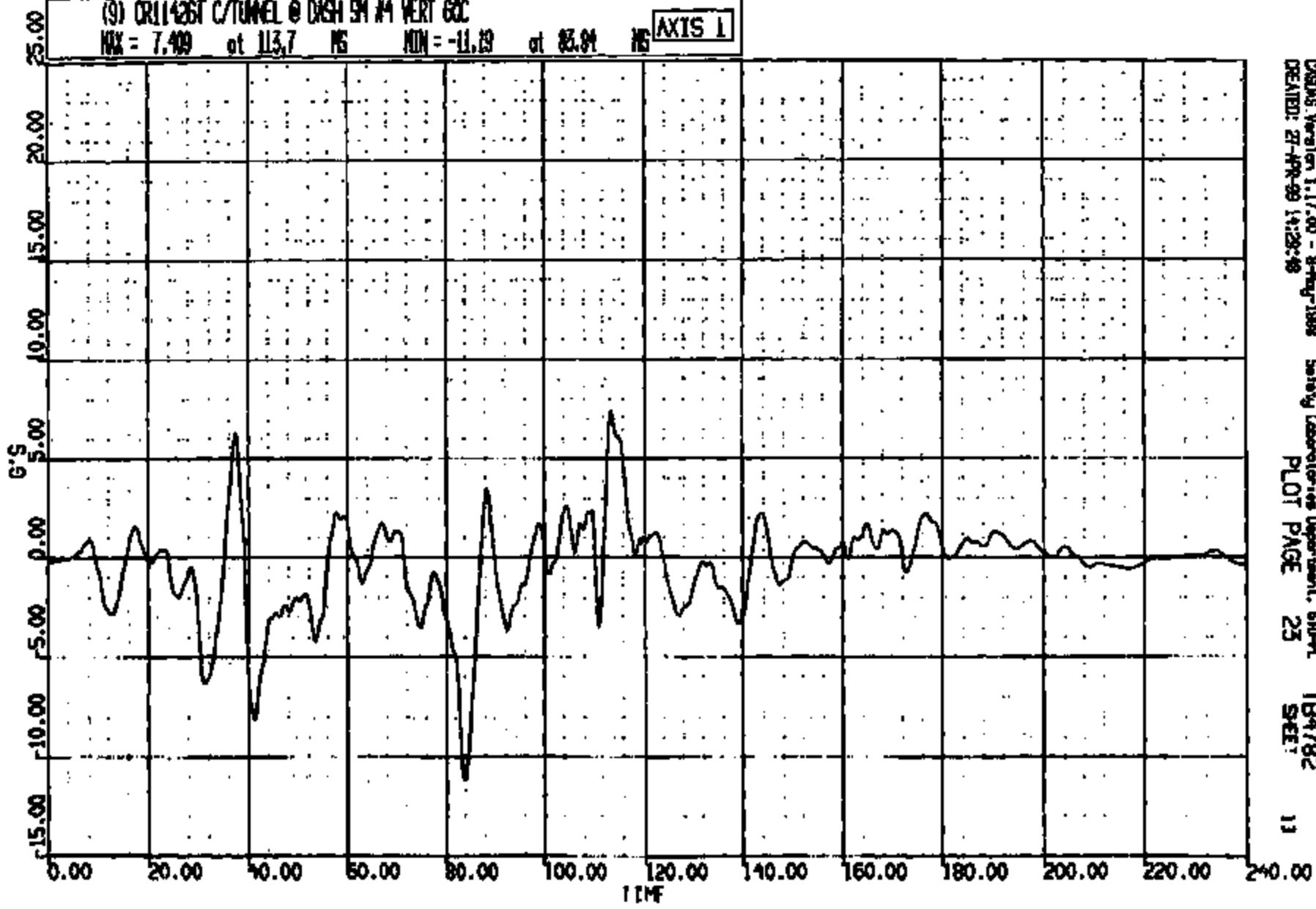
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CREATED: 27-APR-99 14:20:47 PLOT PAGE 22 SEC: 12

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CR15 0011426

CR R: 11426 TO: TB4782 DATE: 980427 14:06:59
20008 FN-146LWB MOVING DEFORMABLE BA

(9) CR11426T C/TUNNEL @ DASH SM #4 VERT GC
MAX = 7.409 at 113.7 MS MIN = -11.139 at 83.04 MS **AXIS 1**



CADWIS Version 1.17.00 - 8-Aug-1998 Safety Laboratories Department, SLD-PL
CREATED: 27-APR-99 14:29:48 PLOT PAGE 25 TB4782
SEE 13

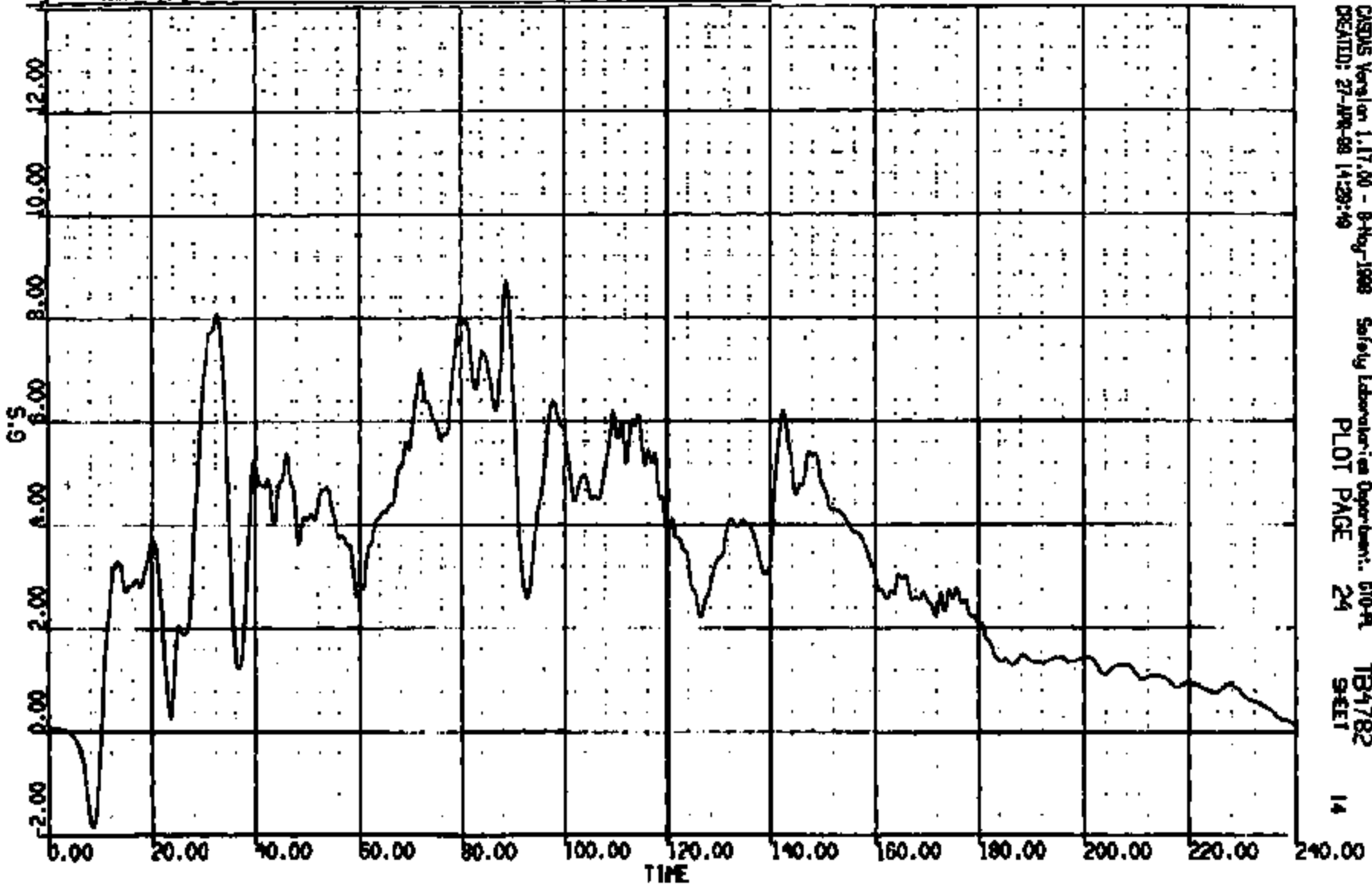
ENTIRE PAGE CONFIDENTIAL

CRIS 0011426

CR R: 11426 TO: TB4782 DATE: 980427 14:08:59
20006 FN-148LWB MOVING DEFORMABLE BA

(10) CRTS011426 C/TUNNEL @ DASH SH #9 LAT 60C
MAX = 8.727 at 88.00 HS MIN = -1.844 at 8.100 HS

AXIS 1



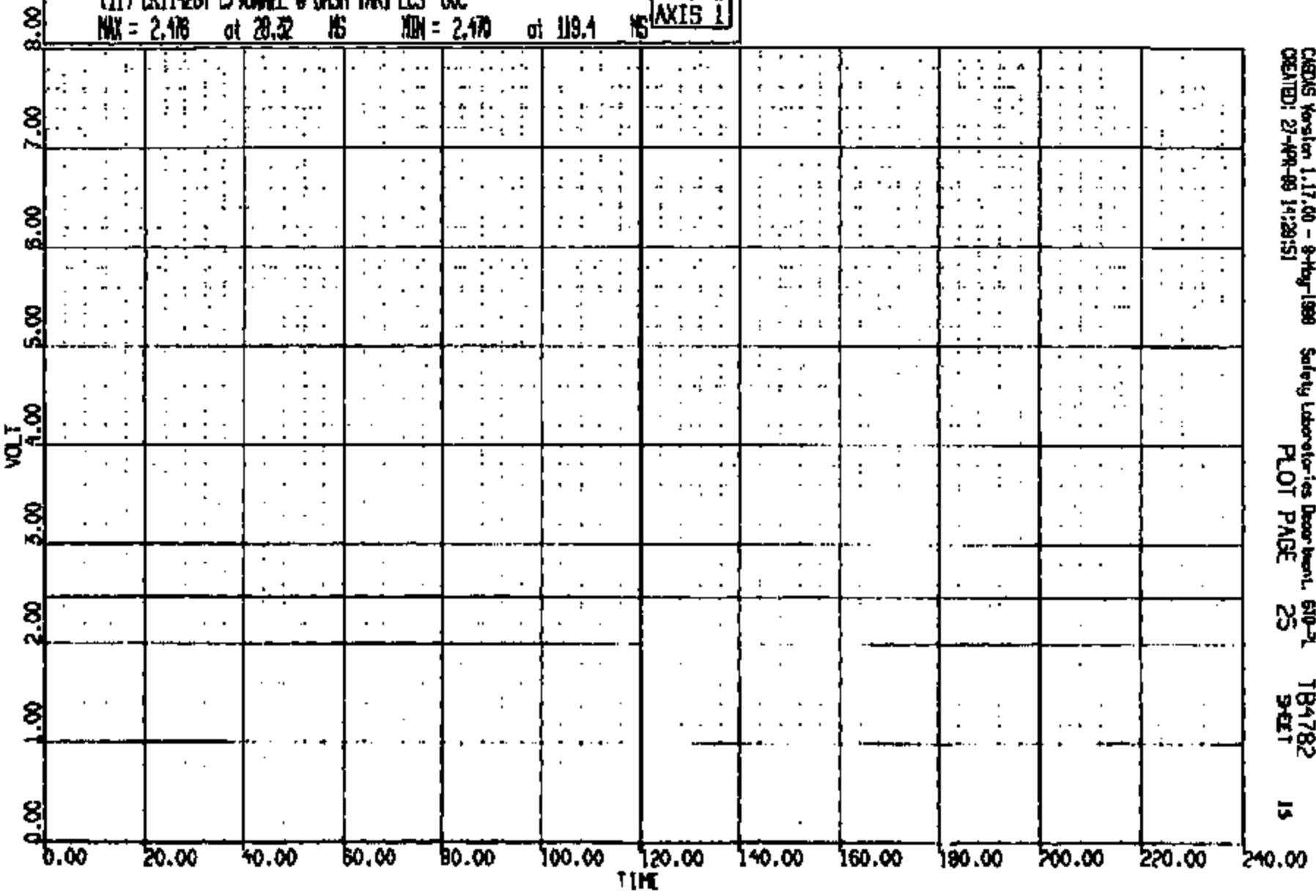
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CRTS 0011426

ENTIRE PAGE CONFIDENTIAL

CR R: 11426 TO: TB4782 DATE: 990427 14:05:59
20006 FN-145LWB MOVING DEFORMABLE BA

(11) CR11426T C/RUNNEL @ DASH TAKI ECS GOC
MAX = 2.478 at 28.32 MS MIN = 2.470 at 119.4 MS **AXIS 1**



CADDS Version 1.17.00 - 8-May-1998
CREATED: 27-Apr-99 14:28:51

Safety Laboratories Dearborn, MI 48124
PLOT PAGE 25

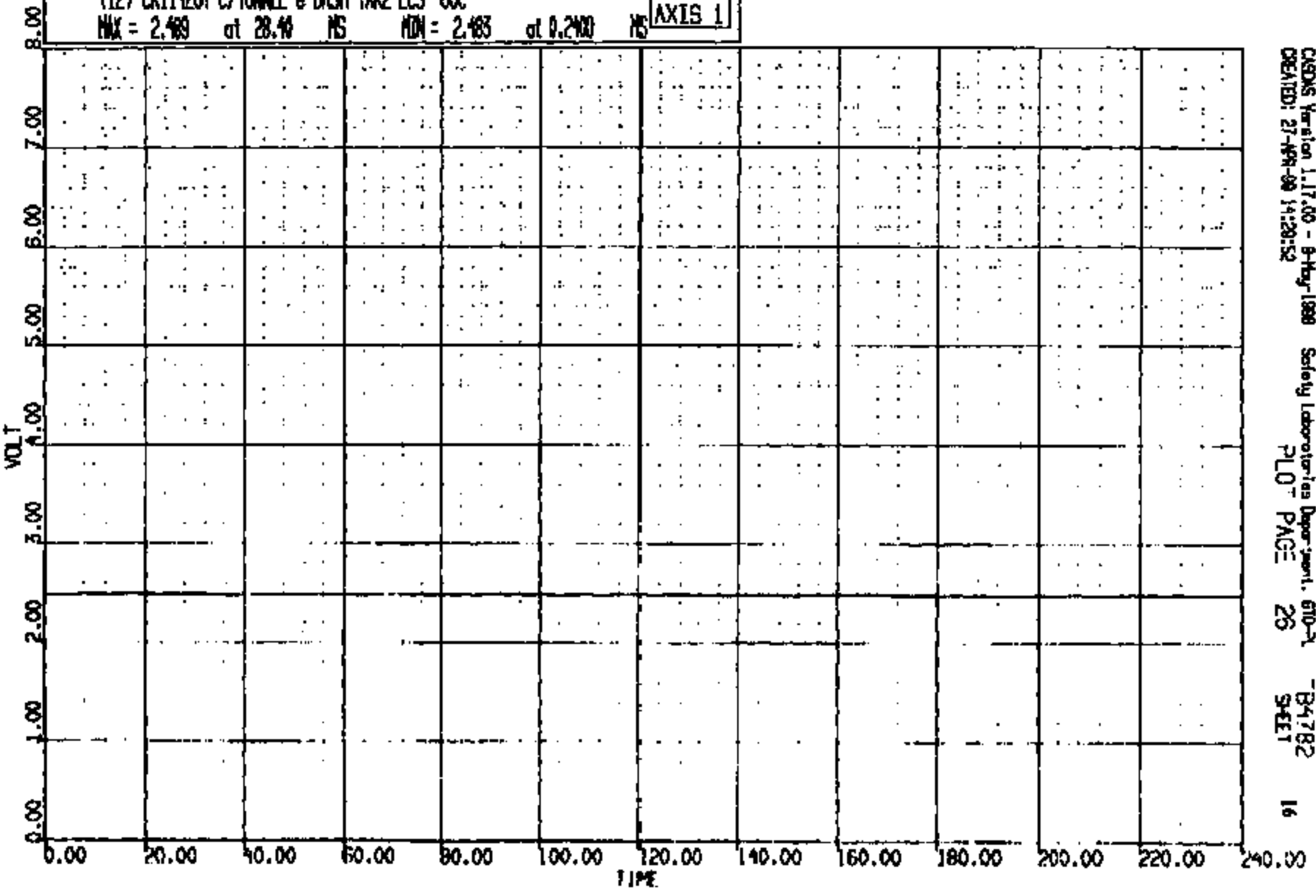
TB4782
Sheet 15

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CRTS 0011426

CR R: 11426 TO: TB4792 DATE: 990427 14:05:59
20005 FN-145LWB MOVING DEFORMABLE BA

(12) CR114267 C/TUNNEL @ DASH TAK2 ECS 60C
MAX = 2.489 at 28.40 MS MIN = 2.483 at 0.2400 MS **AXIS 1**



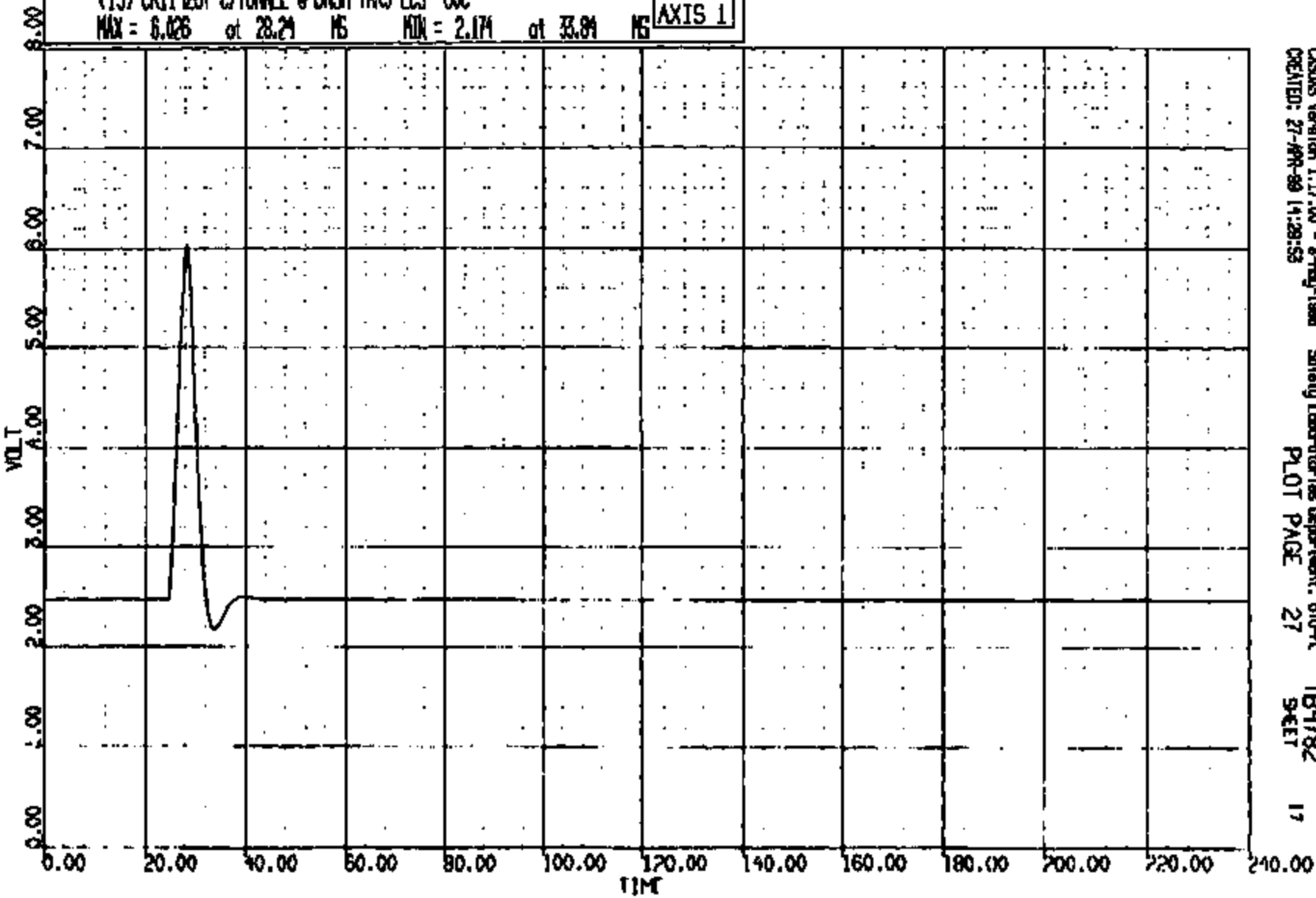
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CRIS 0011426

CR R: 11426 TO: TB4782 DATE: 880427 14:05:58
20005 FN-146LWB MOVING DEFORMABLE BA

(13) CR11426T C/TUNNEL @ DASH TAGS EDS BOC
MAX = 6.026 at 28.24 MS MIN = 2.174 at 33.84 MS **AXIS 1**



CRSUS Version 1.17.00 - 8-May-1988
CREATED: 27-APR-88 14:28:58

Safety Laboratories Department, 610-PA
PLOT PAGE 27

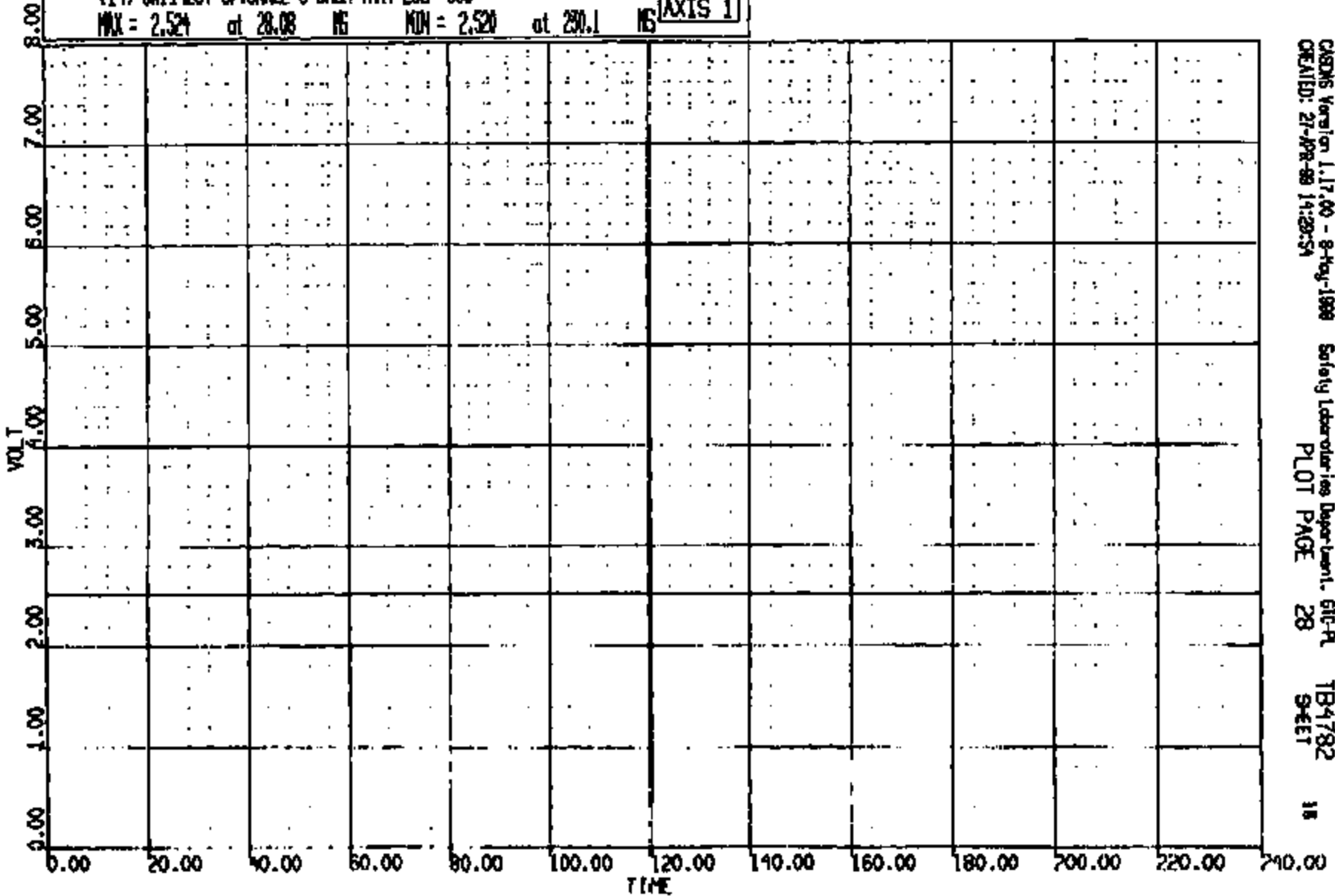
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CRIS 0011426

CR R: 11426 TO: TB4782 DATE: 990427 14:05:39
20008 FN-145LWB MOVING DEFORMABLE BA

(14) CR11426T C/TUNNEL @ DASH TAKA ECS GOC
MAX = 2.524 at 28.08 MS MIN = 2.520 at 280.1 MS **AXIS 1**



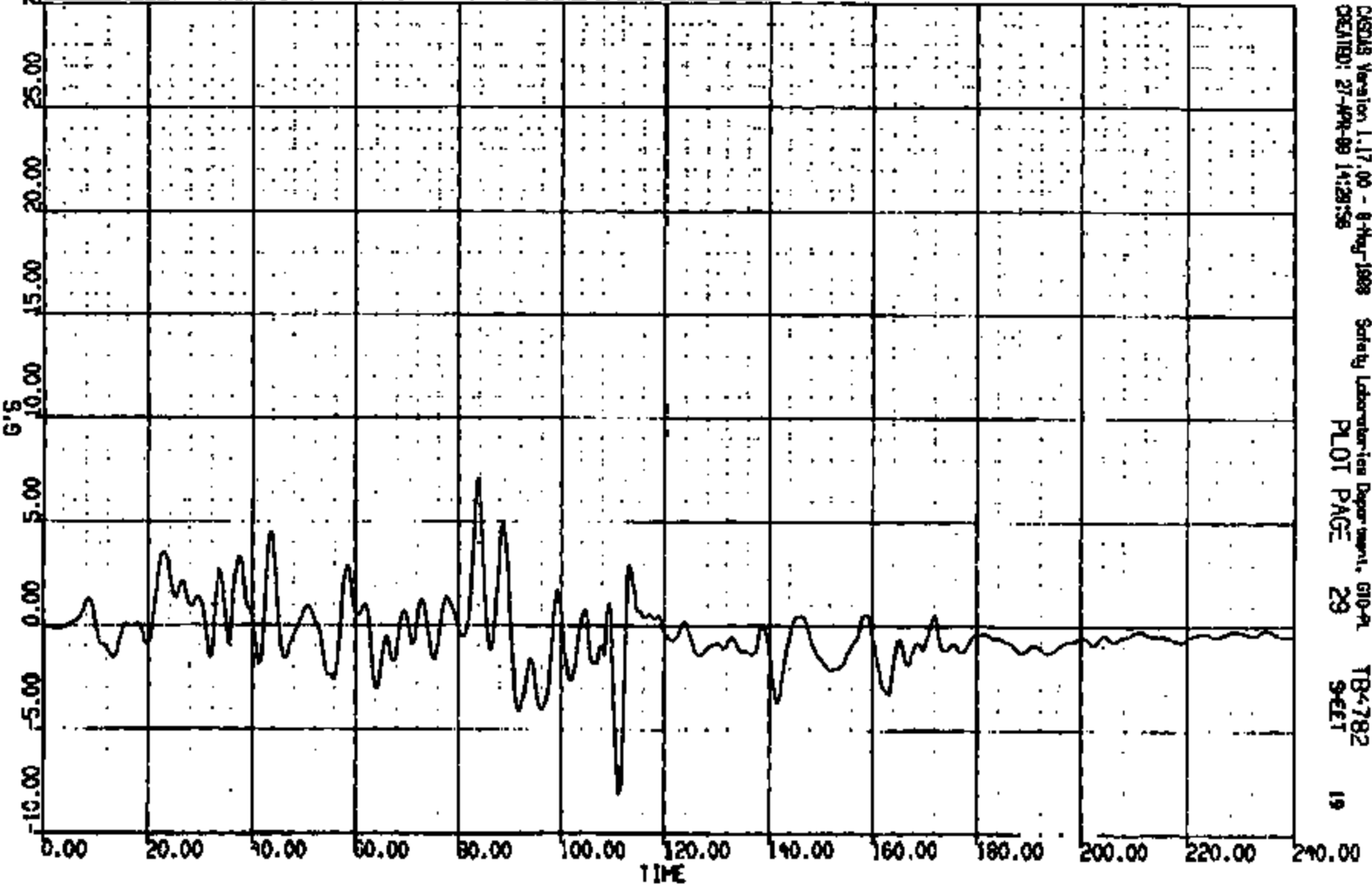
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CRIS 0011426

CR R: 11426 TO: TB4782 DATE: 990427 14:05:39
2005 FN-146LWB MOVING DEFORMABLE BA

(15) CR114261 C/TUNNEL @ DASH FROM #6 LONG 60C
MAX = 7.063 at 85.76 MS MIN = -8.141 at 111.3 MS **AXIS 1**



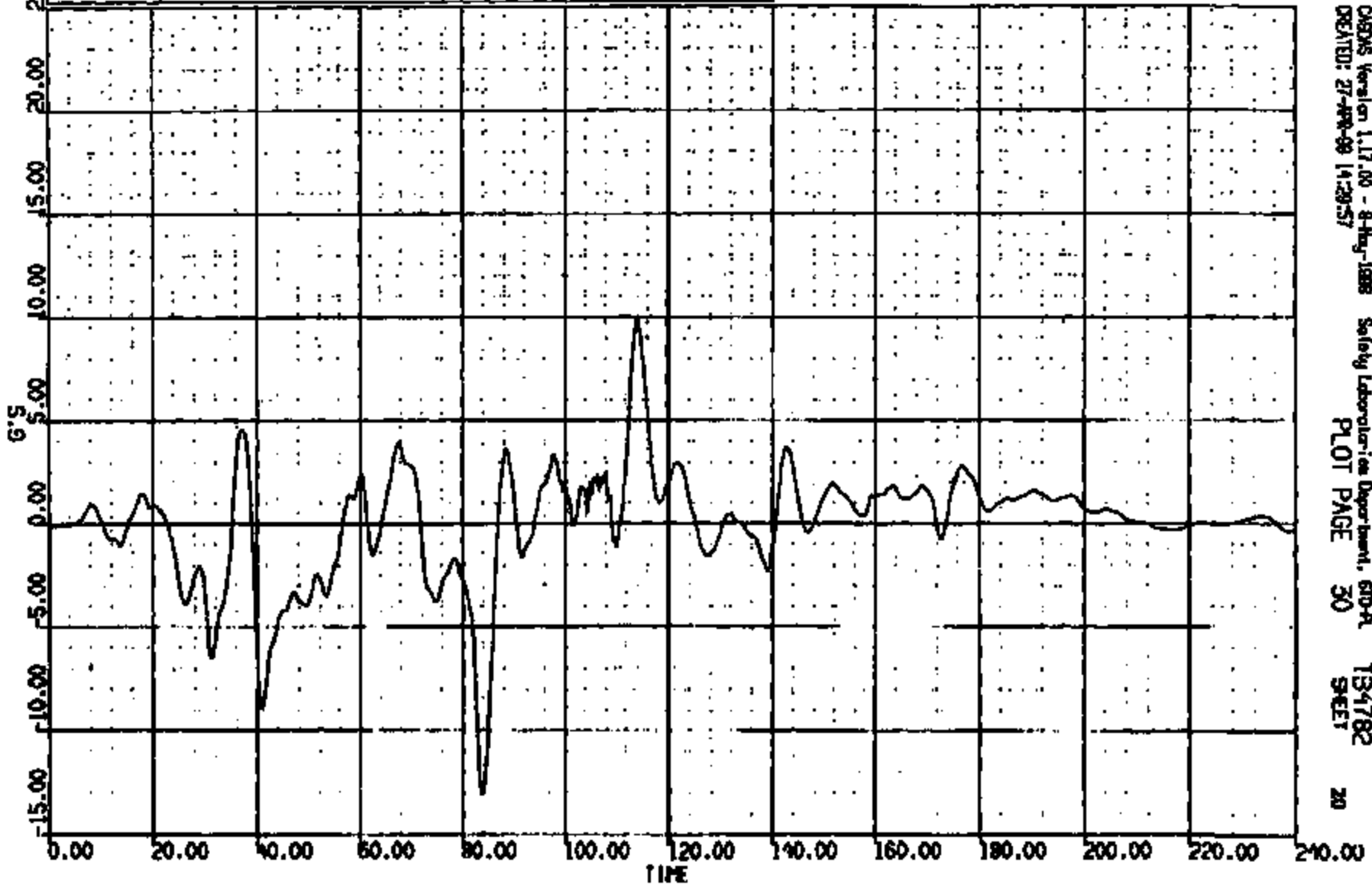
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ENTIRE PAGE CONFIDENTIAL

CRTS 0011426

CR R: 11426 TO: TB4782 DATE: 090427 14:08:39
20008 FN-14SLWB MOVING DEFORMABLE BA

(16) CR11426T C/TUNNEL @ DASH RCH NG VERT GOC
MAX = 10.05 at 114.2 MS MIN = -13.14 at 85.92 MS **AXIS 1**



CRS Version 1.17.00 - 8-Aug-1998 Safety Laboratories Department, 610-A
CREATED: 27-APR-99 14:29:57 PLOT PAGE 30 SHEET 20

CRIS 0011426

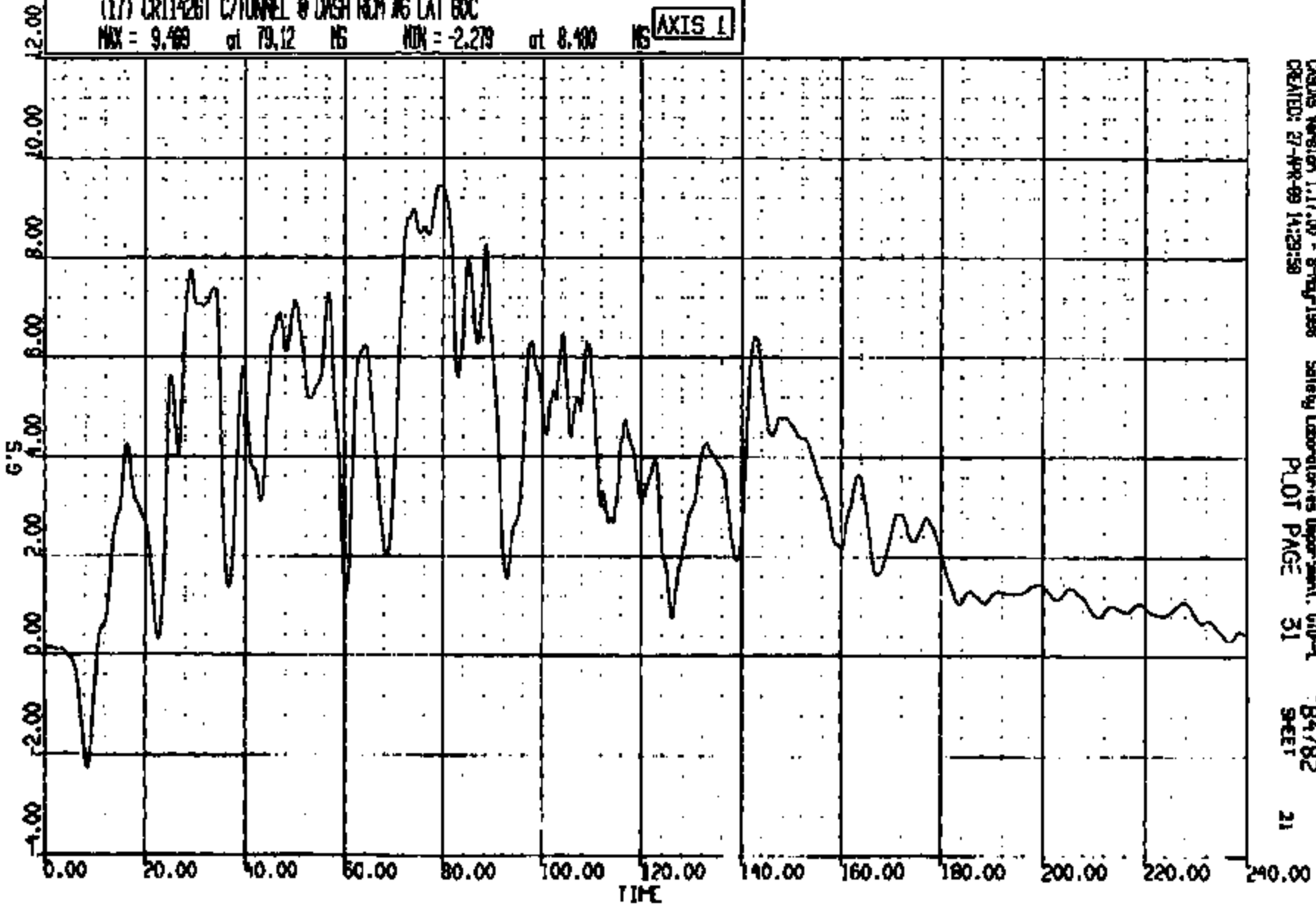
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CR R: 11426 TO: TB4782 DATE: 990427 14:03:39
20005 FN-148LWB MOVING DEFORMABLE RA

(17) CR11426T C/TUNNEL @ DASH RCM #6 LAT 60C

MAX = 9.469 at 79.12 MS MIN = -2.279 at 8.400 MS

AXIS 1



CADDS Version 1.17.00 - 8-May-1998
CREATED: 27-APR-99 14:29:58

Safety Laboratories Department, 610-1
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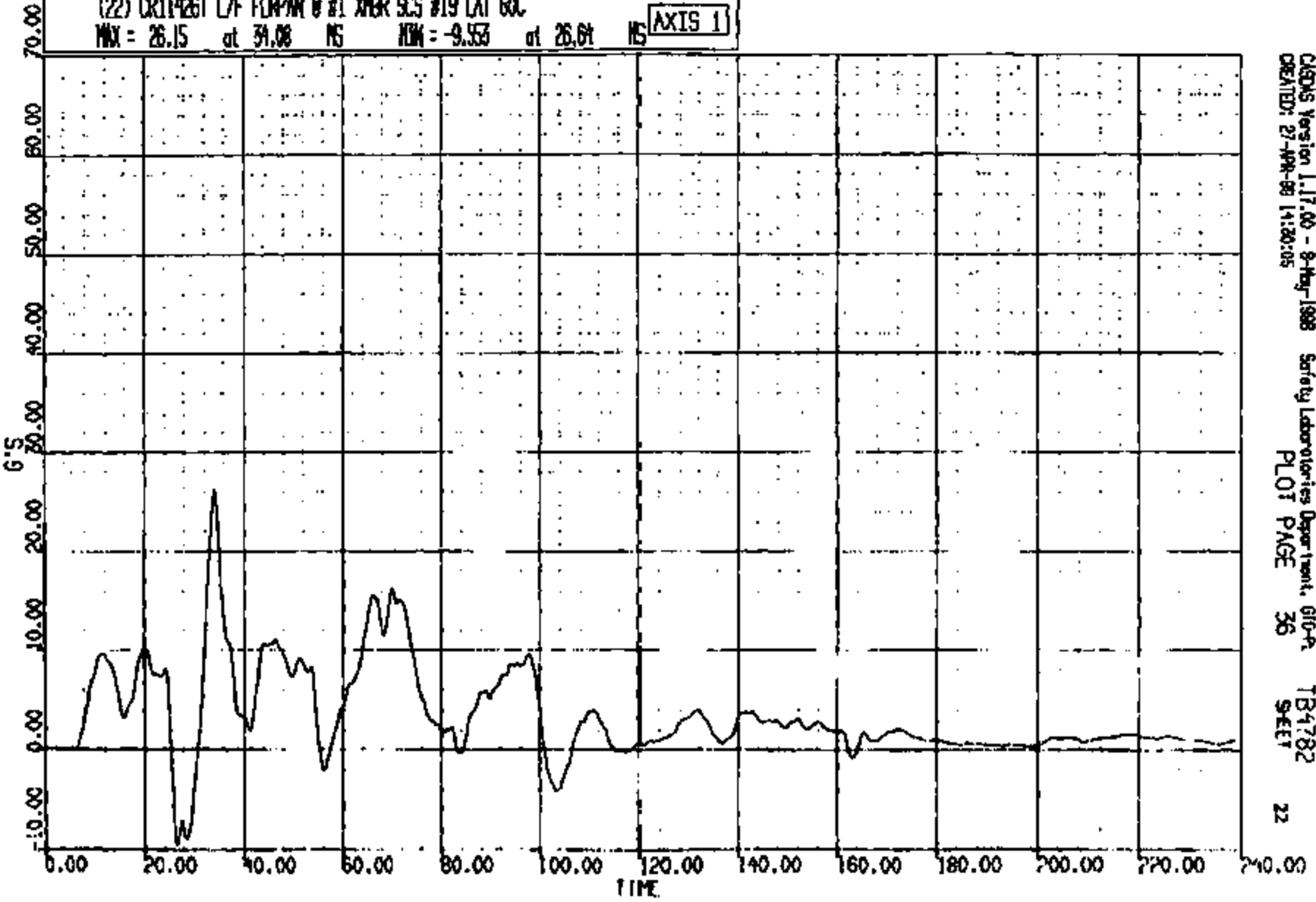
TB4782
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CR1S 0011426

CR R: 11426 TO: TB4782 DATE: 880427 14:05:39
20005 FN-148LWB MOVING DEFORMABLE BA

(22) CR11426T L/F FLUPAN @ #1 XMR SCS #19 LAT GOC
MAX = 26.15 at 31.08 MS MIN = -9.553 at 26.01 MS **AXIS 1**



CRS05 Version 1.17.00 - 8-May-1988 Safety Laboratories Department, 610-A
CREATED: 27-Apr-88 14:20:05 PLOT PAGE 36 TB4782
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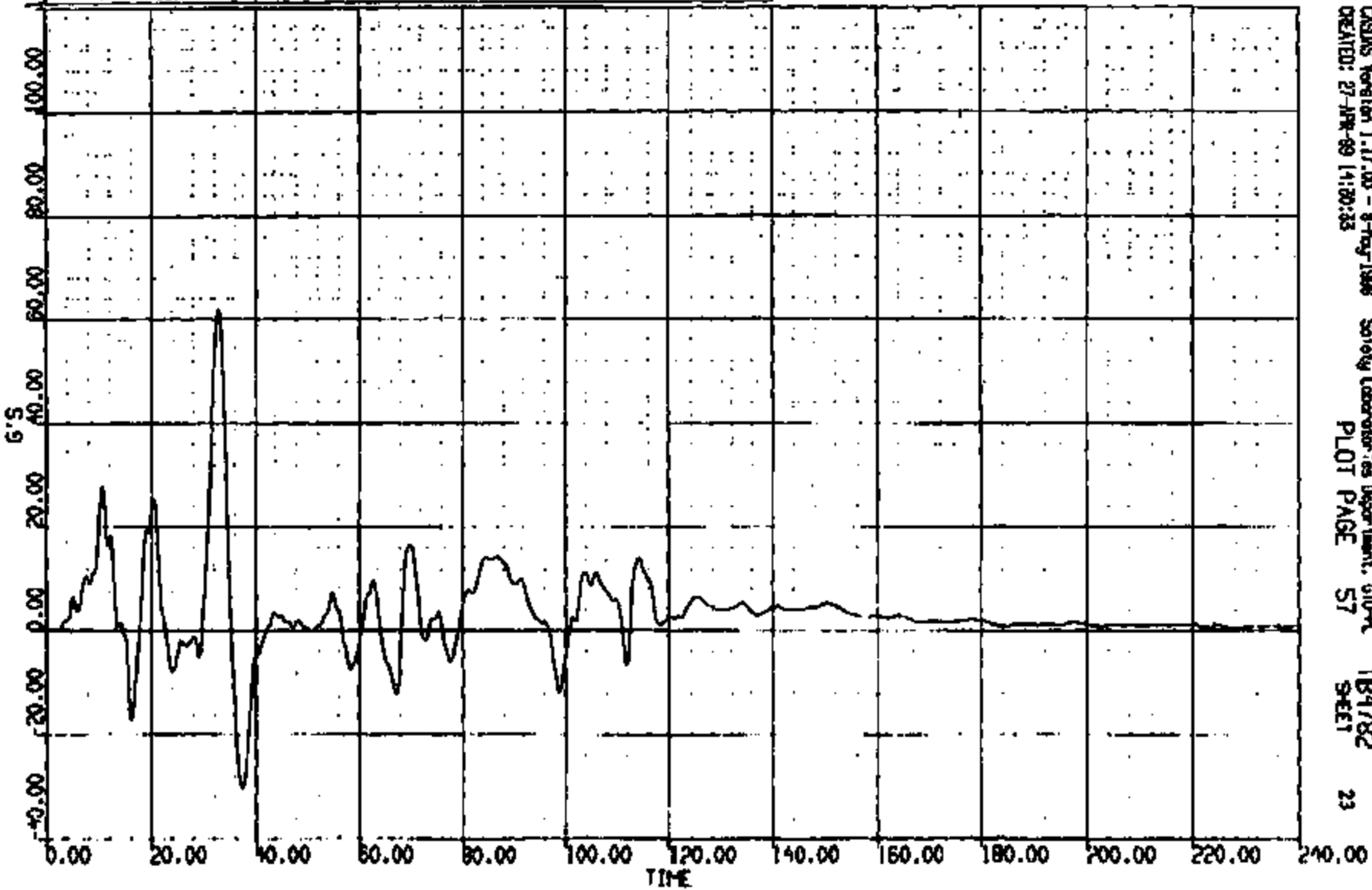
CRIS 0011426

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CR R: 11426 TO: TB4782 DATE: 200427 14:08:38
20006 FN-145LWB MOVING DEFORMABLE BA

(43) CR11426T R/FLIPW @ #1 XMR SCS #20 LAT 60C
MAX = 61.79 at 32.88 NS MIN = -30.42 at 37.20 NS

AXIS 1



CASUS Korelion 1.17.00 - 8-May-1988
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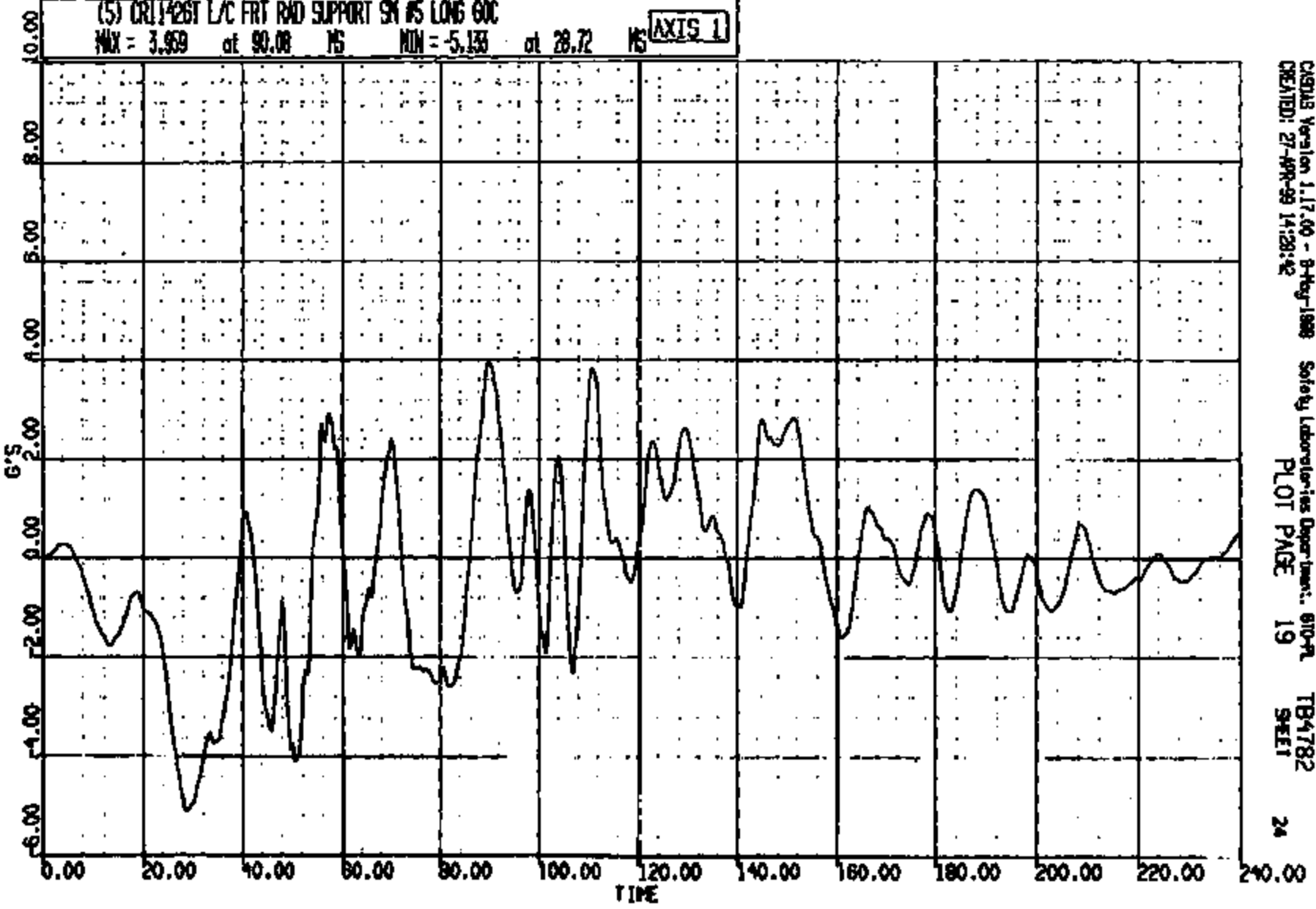
23

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CRIS 0011426

CR R: 11426 TO: TB4782 DATE: 990427 14:05:59
20006 FN-145LWB MOVING DEFORMABLE SA

(5) CR11426T L/C FRT RAD SUPPORT SN #5 LONG 60C
MAX = 3.959 at 90.00 MS MIN = -5.133 at 28.72 MS **AXIS 1**



CASUS Version 1.17.00 - 8-Feb-1999 Safety Laboratories Department: 810-PL TB4782
CREATED: 27-APR-99 14:28:42 PLOT PAGE 19 SHEET 24

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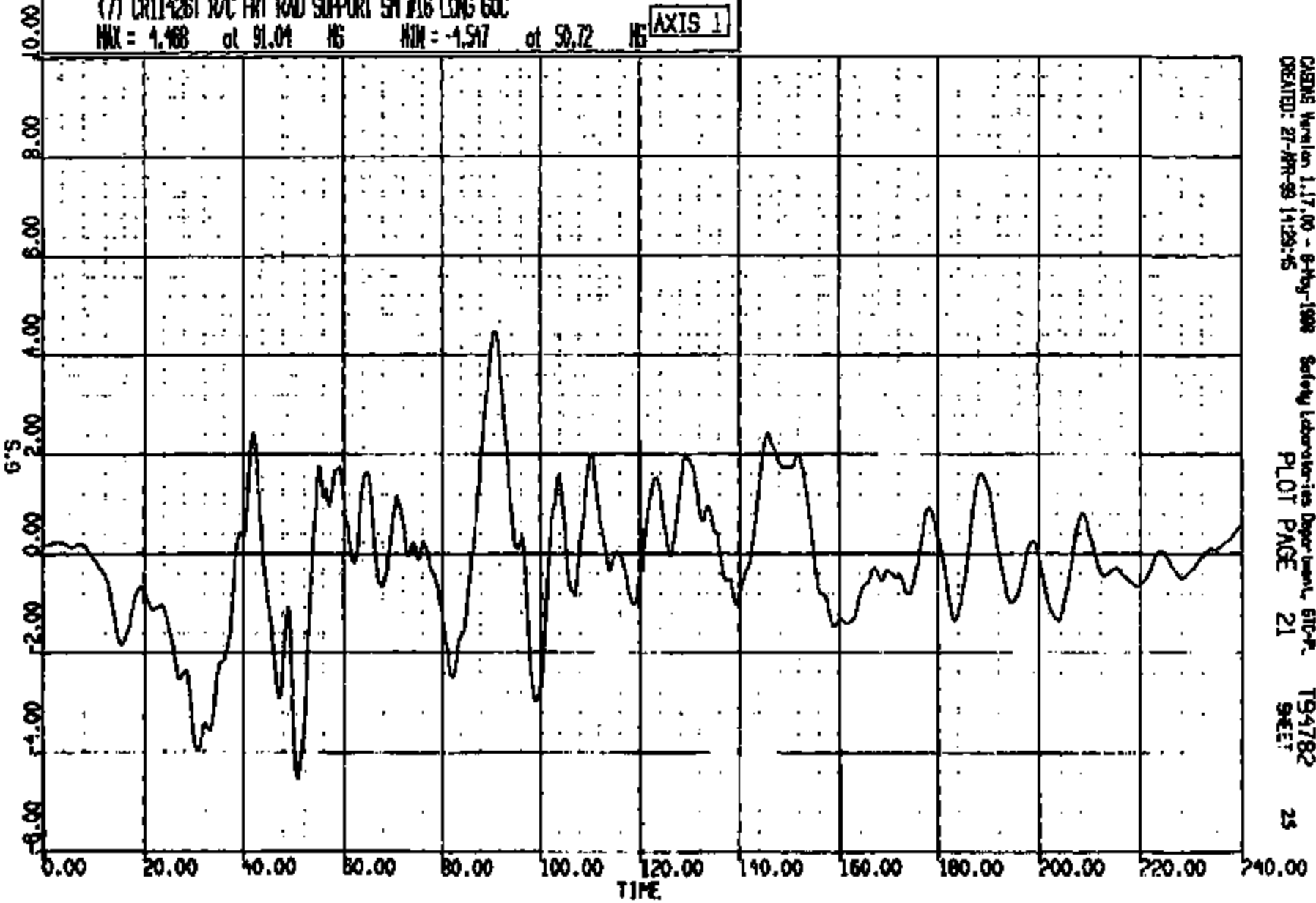
CRTS 0011426

CR R: 11426 TO: TB4782 DATE: 990427 14:05:29
20005 FN-146LWB MOVING DEFORMABLE SA

(7) CR11426T R/C FRT RAD SUPPORT SH #16 LONG 60C

MAX = 1.468 at 91.04 MS MIN = -1.517 at 50.72 MS

AXIS 1



CRSING Version 1.17.00 - 8-May-1998
CREATED: 27-MAR-99 14:29:45

Safety Laboratories Department, SLP-P
PLOT PAGE 21

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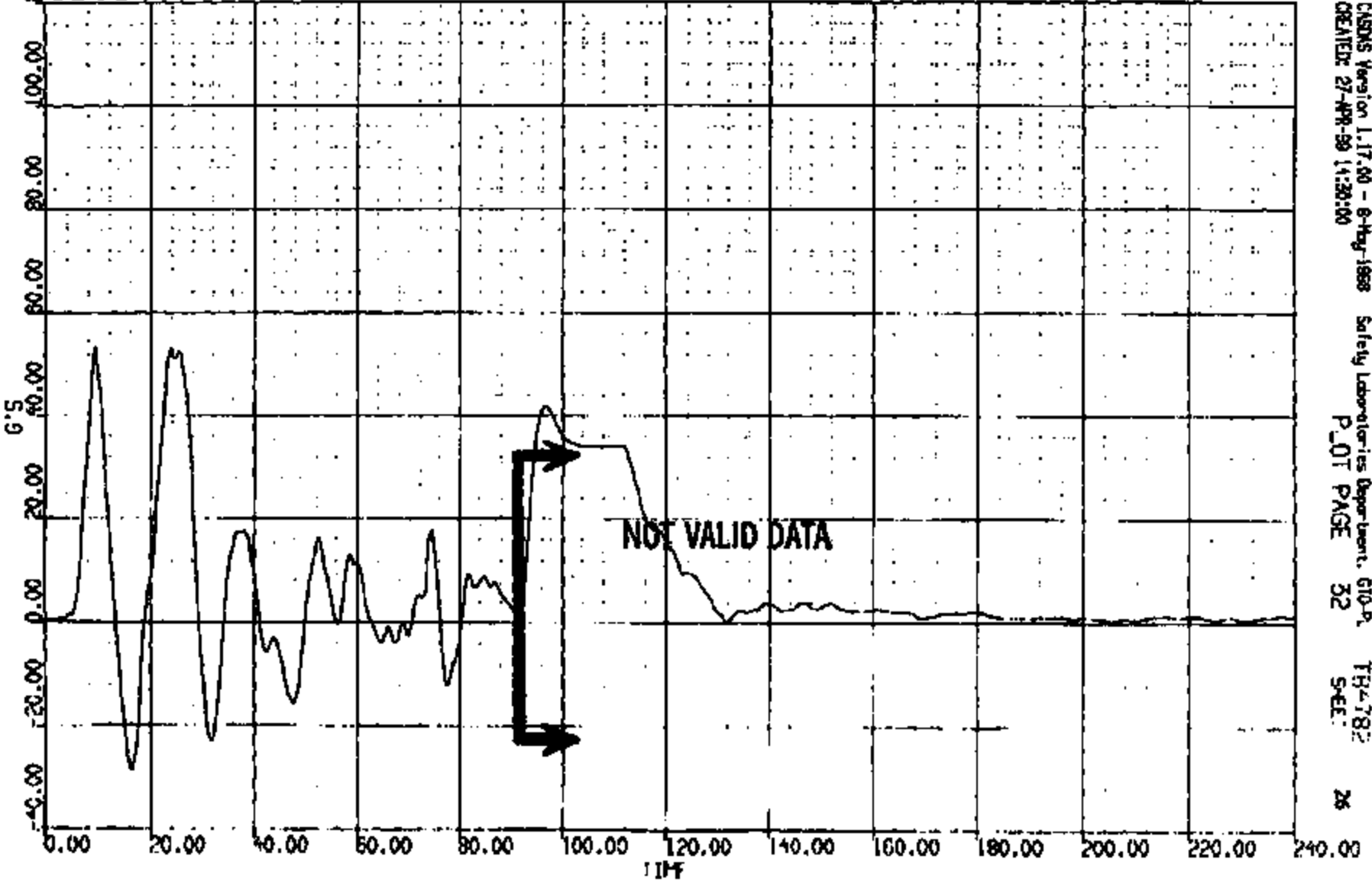
CRTS 0011426

CR R: 11426 TO: TB4782 DATE: 990427 14:05:59
20005 FN-148LWB MOVING DEFORMABLE BA

(18) CR11426T L/F DOOR @ BELTLINE MID LAT 60C

MAX = 53.21 at 9.200 MS MIN = -28.79 at 16.32 MS

AXIS 1



CASDS Version 1.17.00 - 8-May-1998
CREATED: 27-APR-99 14:30:00

Safety Laboratories Department, 610-P
PLOT PAGE 32

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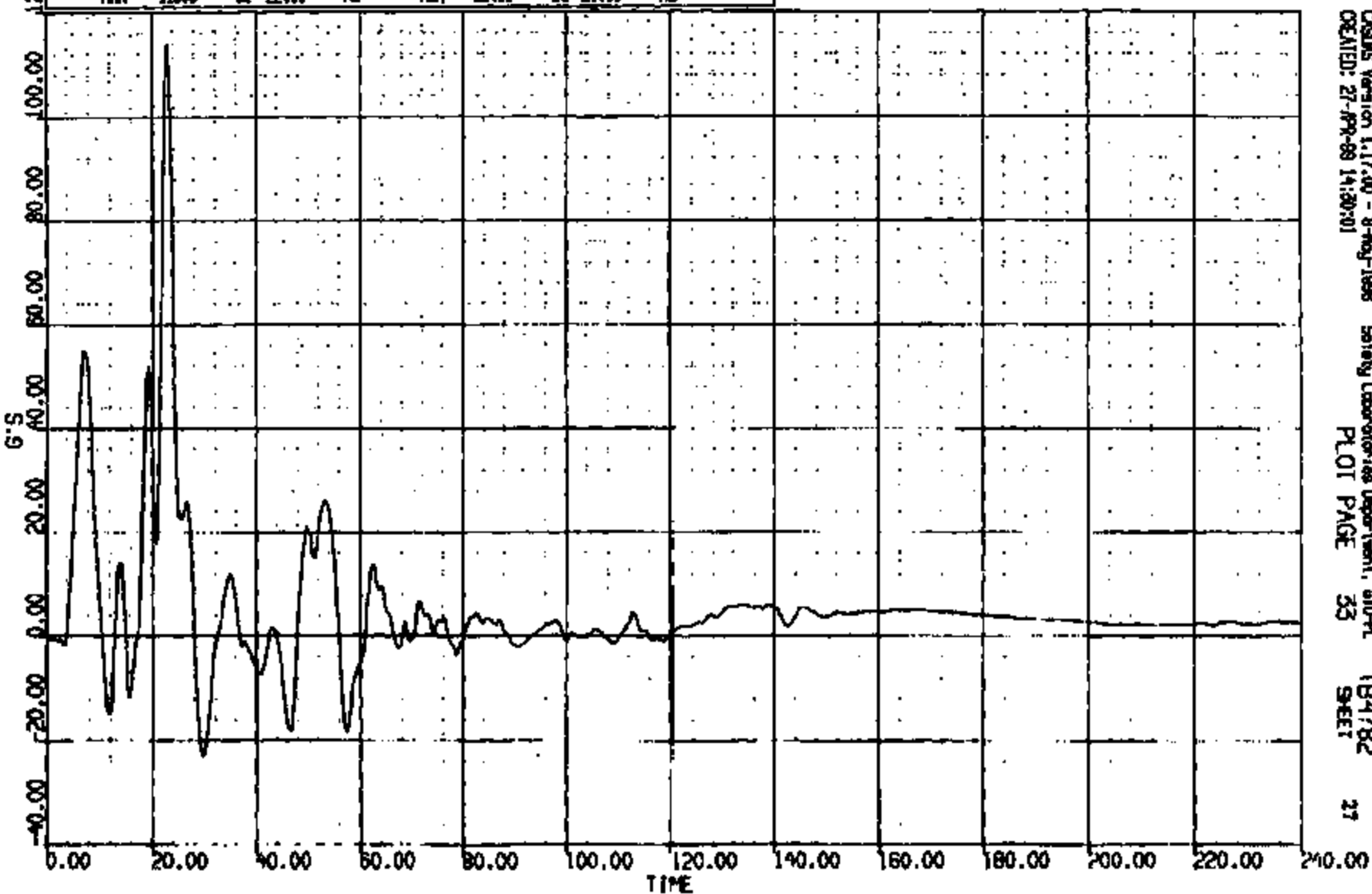
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CRIS 0011426

DR R: 11426 TO: TB4782 DATE: 990427 14:05:30
20006 FN-146LWB MOVING DEFORMABLE BA

(19) CR11426T L/F DOOR OVER ARREST LAT GUC
MAX = 113.8 at 22.80 MS MIN = -23.19 at 29.60 MS

AXIS I



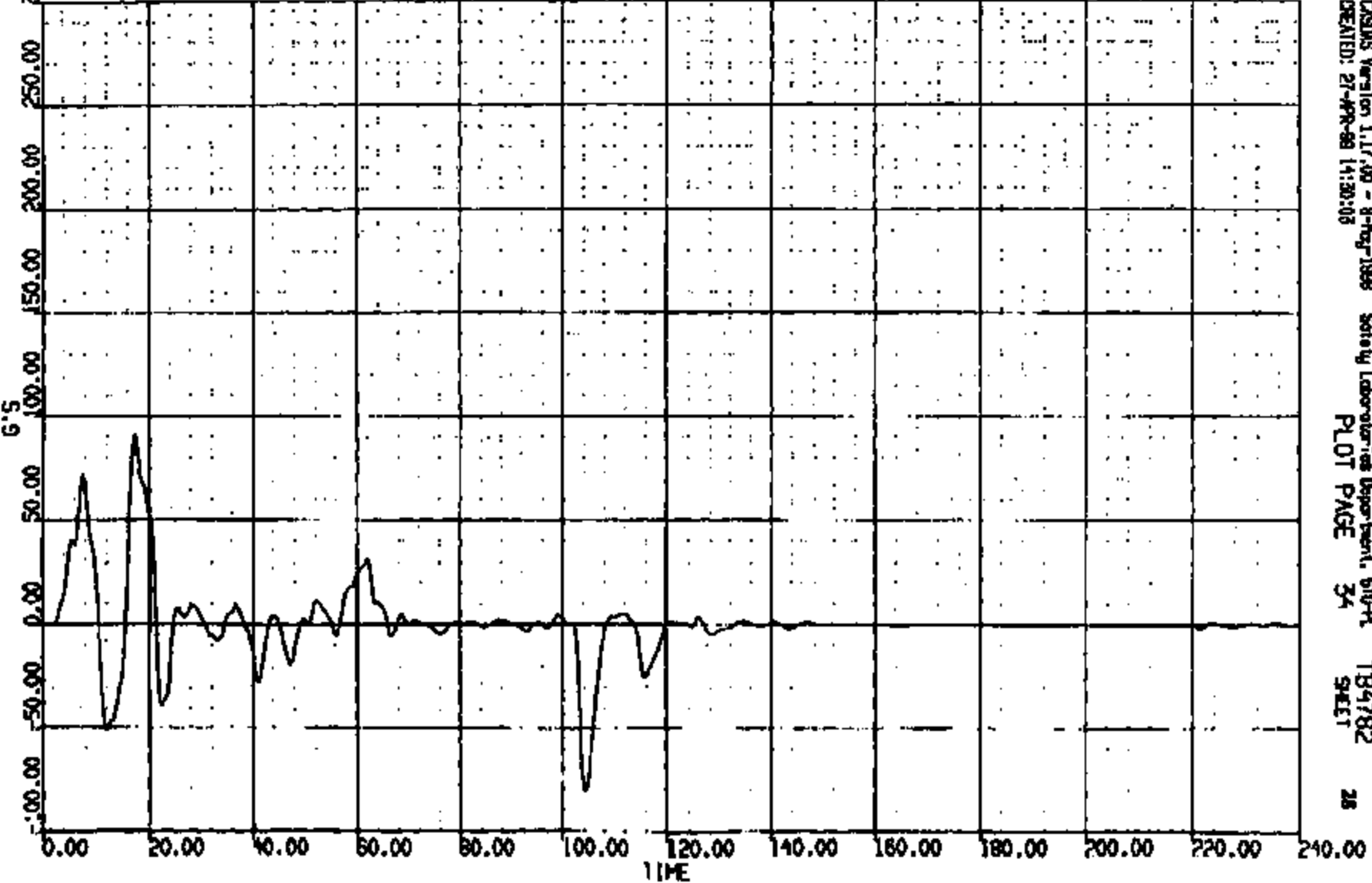
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CRTS 0011426

CR R: 11426 TC: TB4782 DATE: 880427 14:05:59
20005 FN-14BLWB MOVING DEFORMABLE BA

(20) CRL1426T L/F DOOR REAR OF SEAT HPT LAT GC
MAX = 91.41 at 17.28 MS MIN = -81.75 at 109.2 MS **AXIS 1**



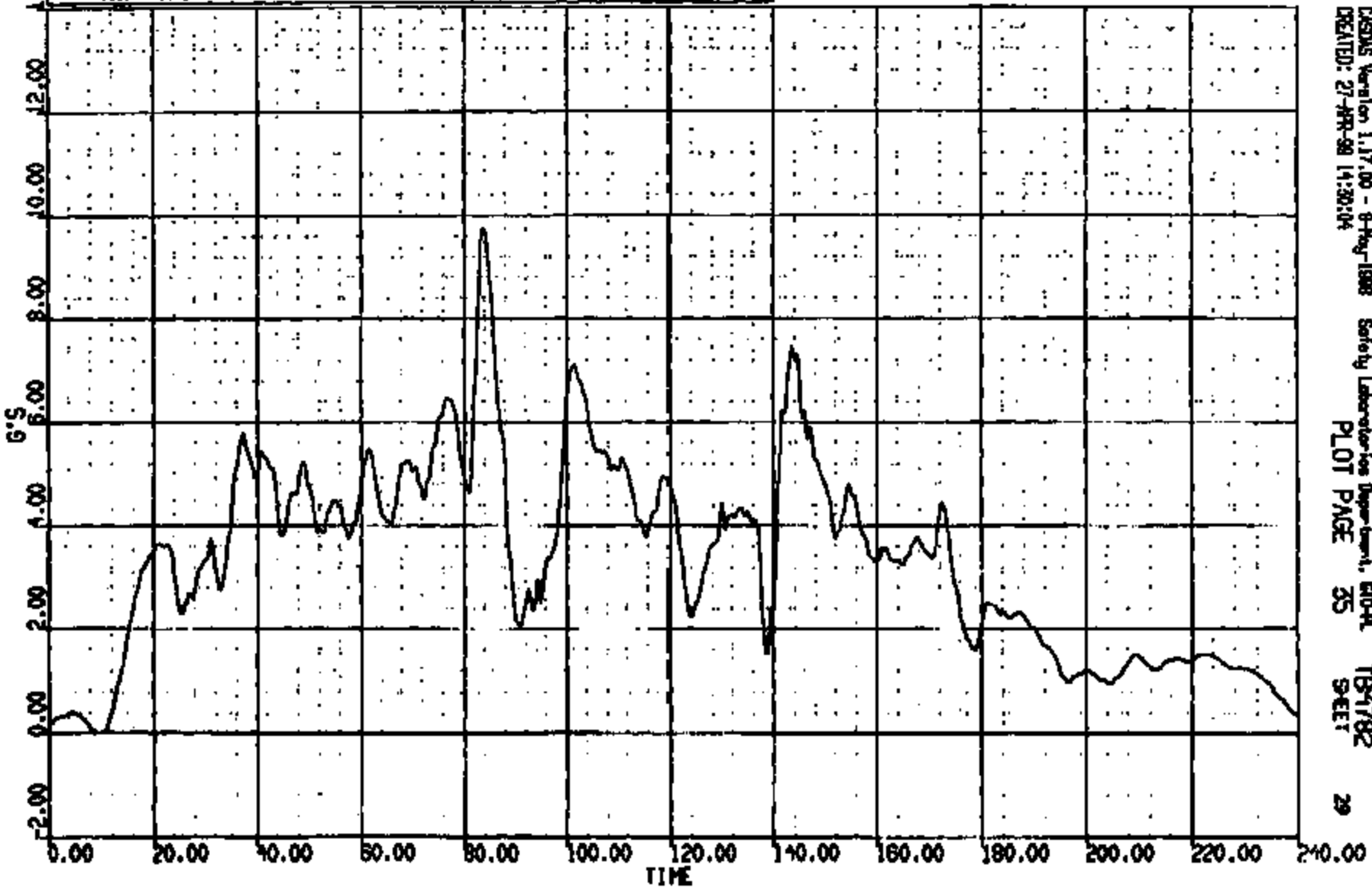
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CRIS 0011426

CR R: 11426 TO: TB4782 DATE: 990427 14:06:59
20005 FN-145LWB MOVING DEFORMABLE BA

(21) CR11426T L/F DOOR SPEAKER HOLE LAT GOC
MAX = 9.727 of 85.76 MS MIN = -208E-02 of 9.20 MS **AXIS 1**



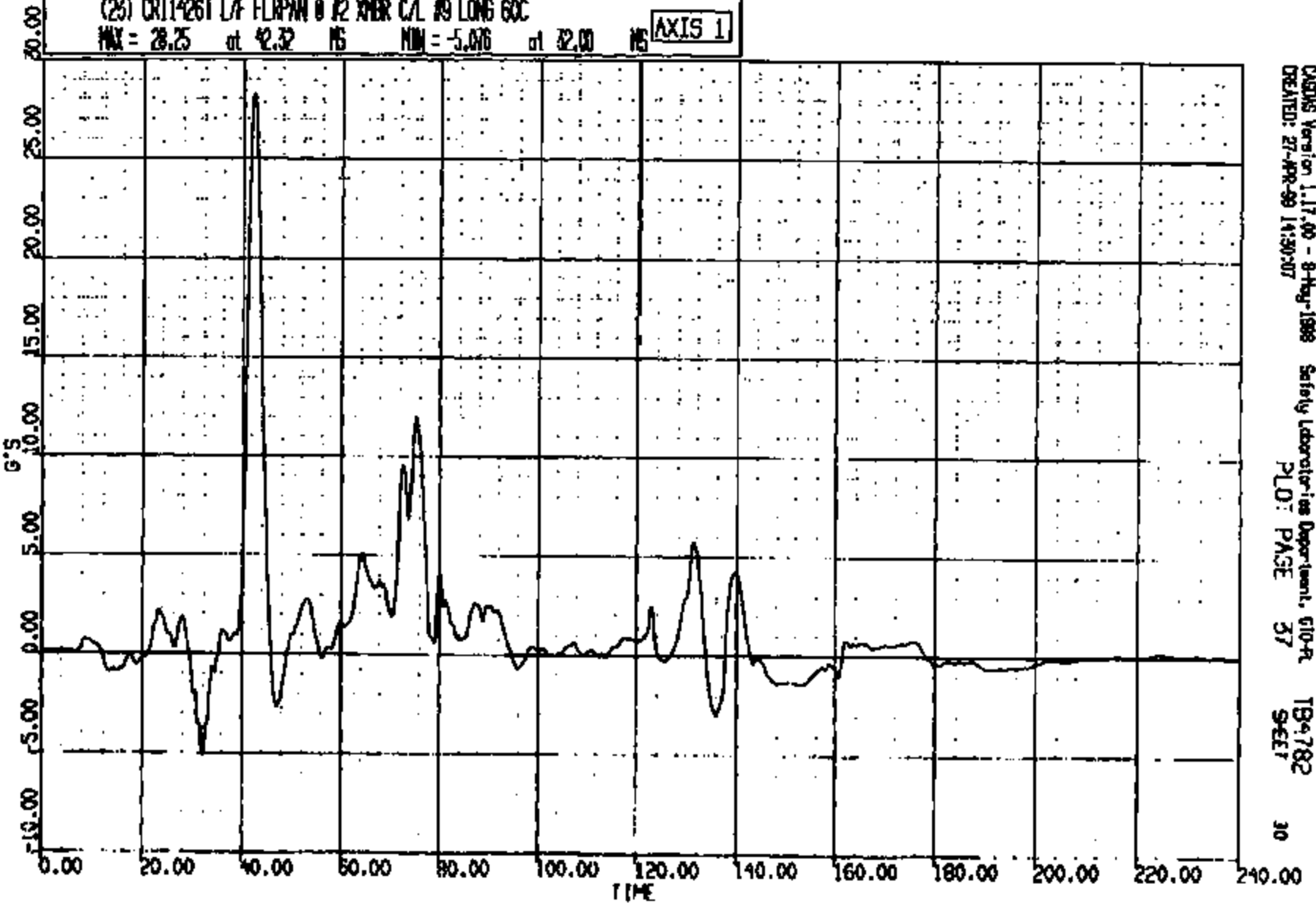
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CRIS 0011426

CR R: 11426 TO: T84782 DATE: 990427 14:03:59
20005 FN-146LWB MOVING DEFORMABLE BA

(28) CR11426T L/F FLRPM 0 #2 XMR C/L #9 LONG 60C
MAX = 28.25 at 42.32 MS MIN = -5.076 at 42.00 MS **AXIS 1**



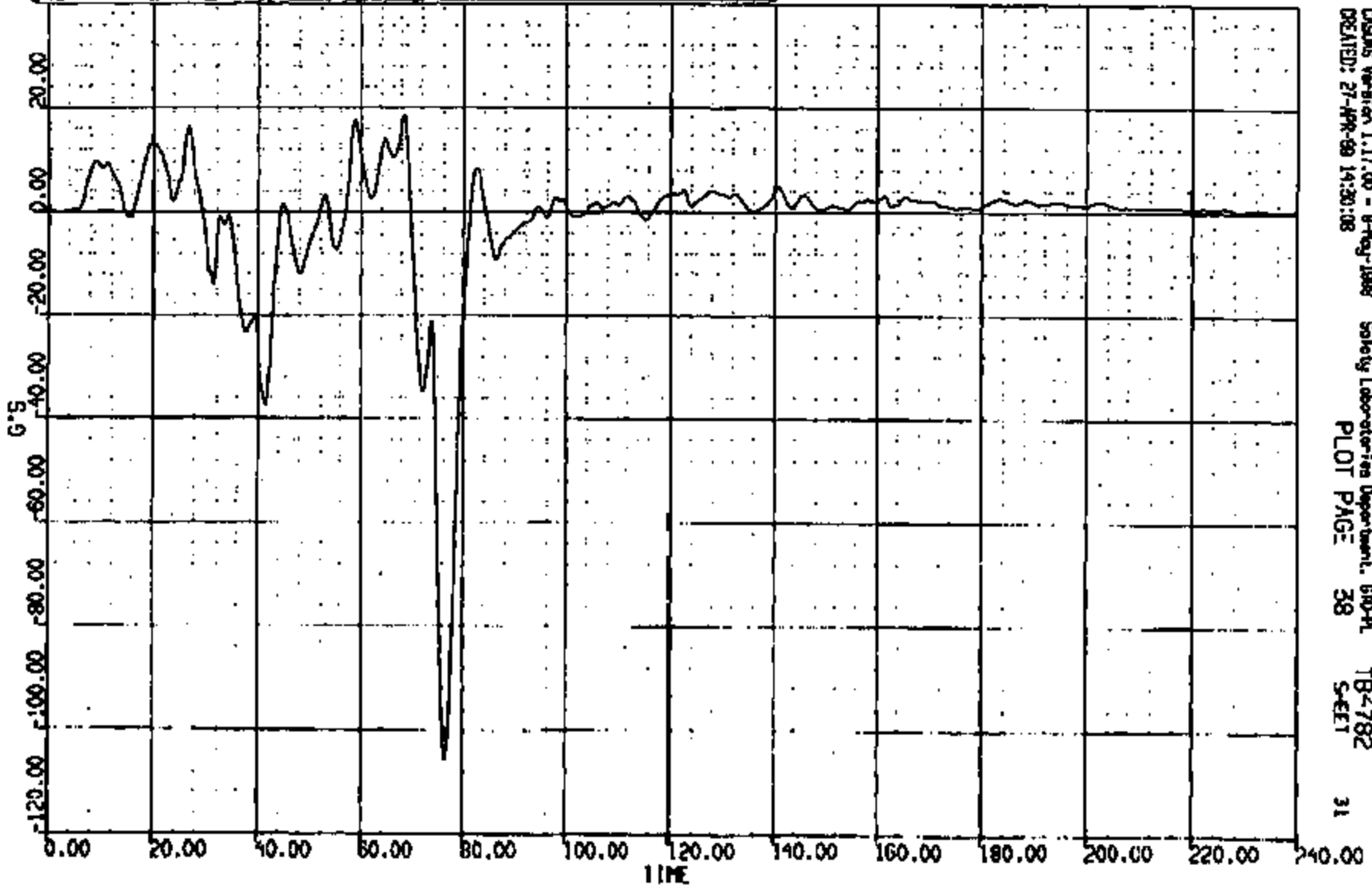
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CRTS 0011426

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NO: 11426 TO: TB4782 DATE: 890427 14:05:59
NO008 FN-145LWS MOVING DEFORMABLE BA

(24) CR114267 L/F FLAPIN @ #2 XMR C/L #9 VERT 50C
MAX = 18.39 at 68.40 MS MIN = -105.7 at 76.52 MS **AXIS 1**



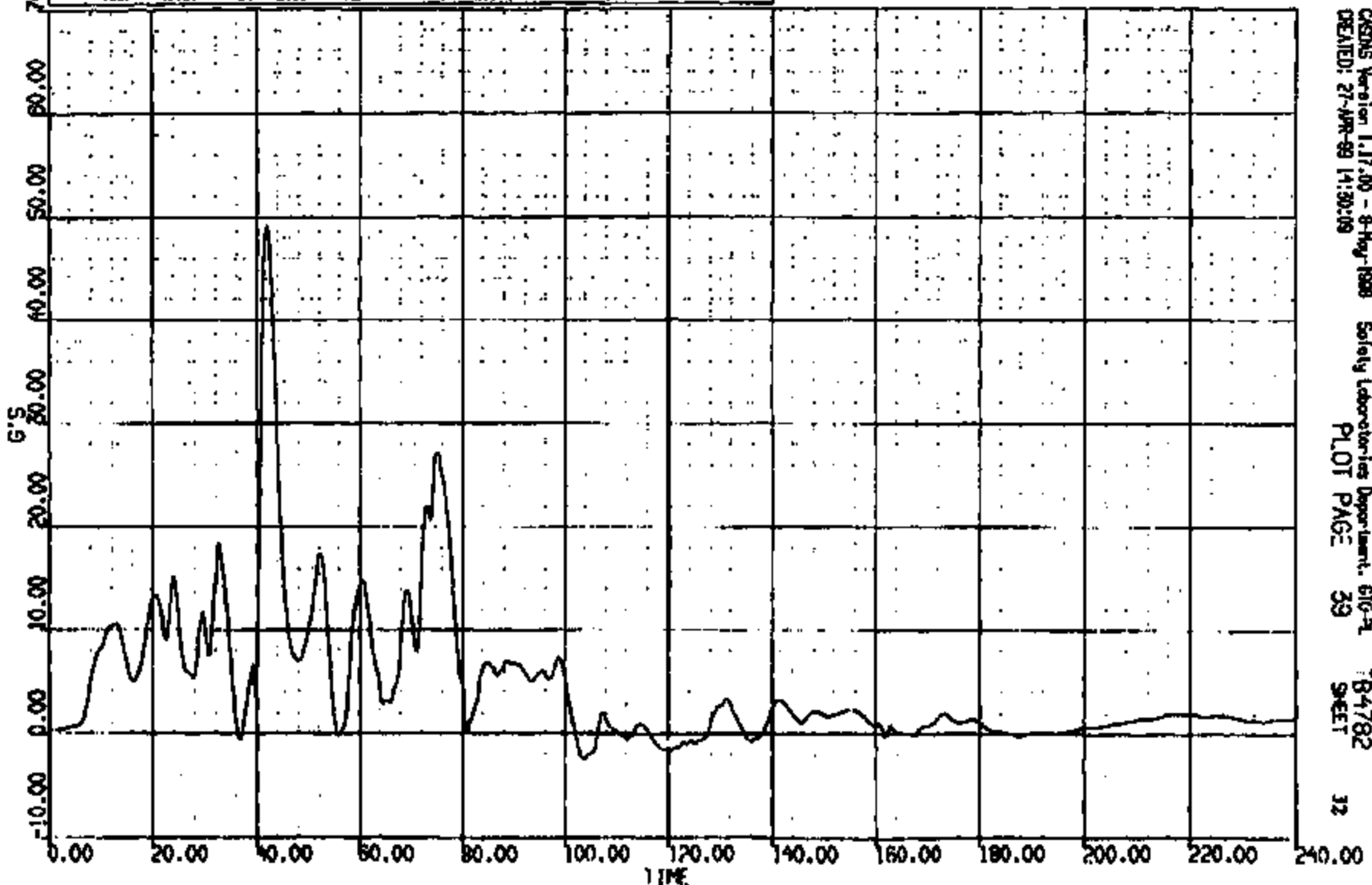
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CR R: 11426 TO: TB4782 DATE: 880427 14:05:58
20005 FN-145LWB MOVING DEFORMABLE SA

(25) CR11426T L/F FLRPAH @ #2 XNER C/L #9 LAT BOC
MAX = 49.17 at 42.00 NS MIN = -2.508 at 104.1 NS **AXIS 1**



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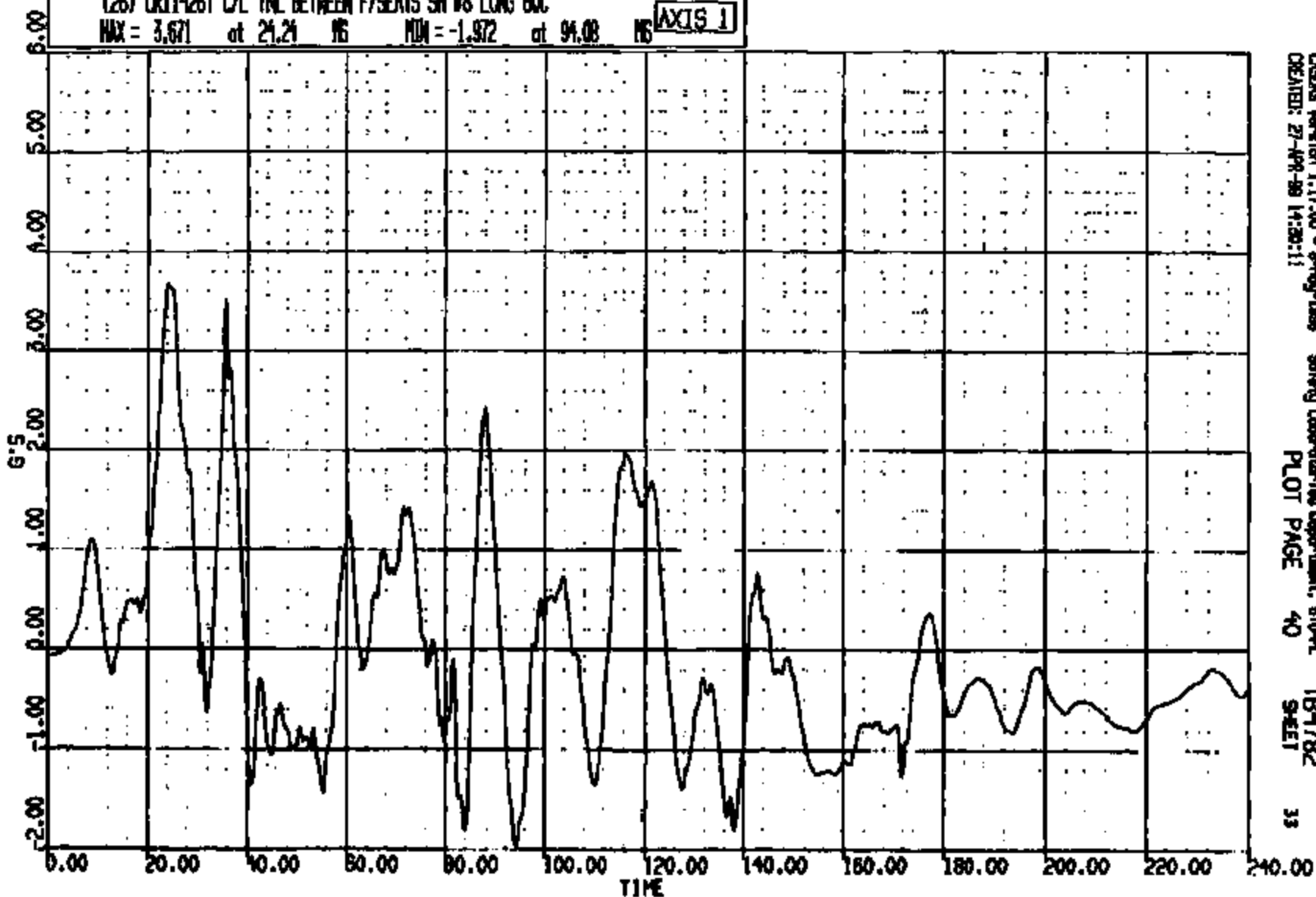
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CR R: 11426 TO: TB4782 DATE: 990427 14:05:39
20006 FN-148LWB MOVING DEFORMABLE BA

(26) OR11426T C/L TNL BETWEEN F/SEATS SN #8 LONG 60C

MAX = 3.671 at 21.21 MS MIN = -1.972 at 91.08 MS

AXIS 1



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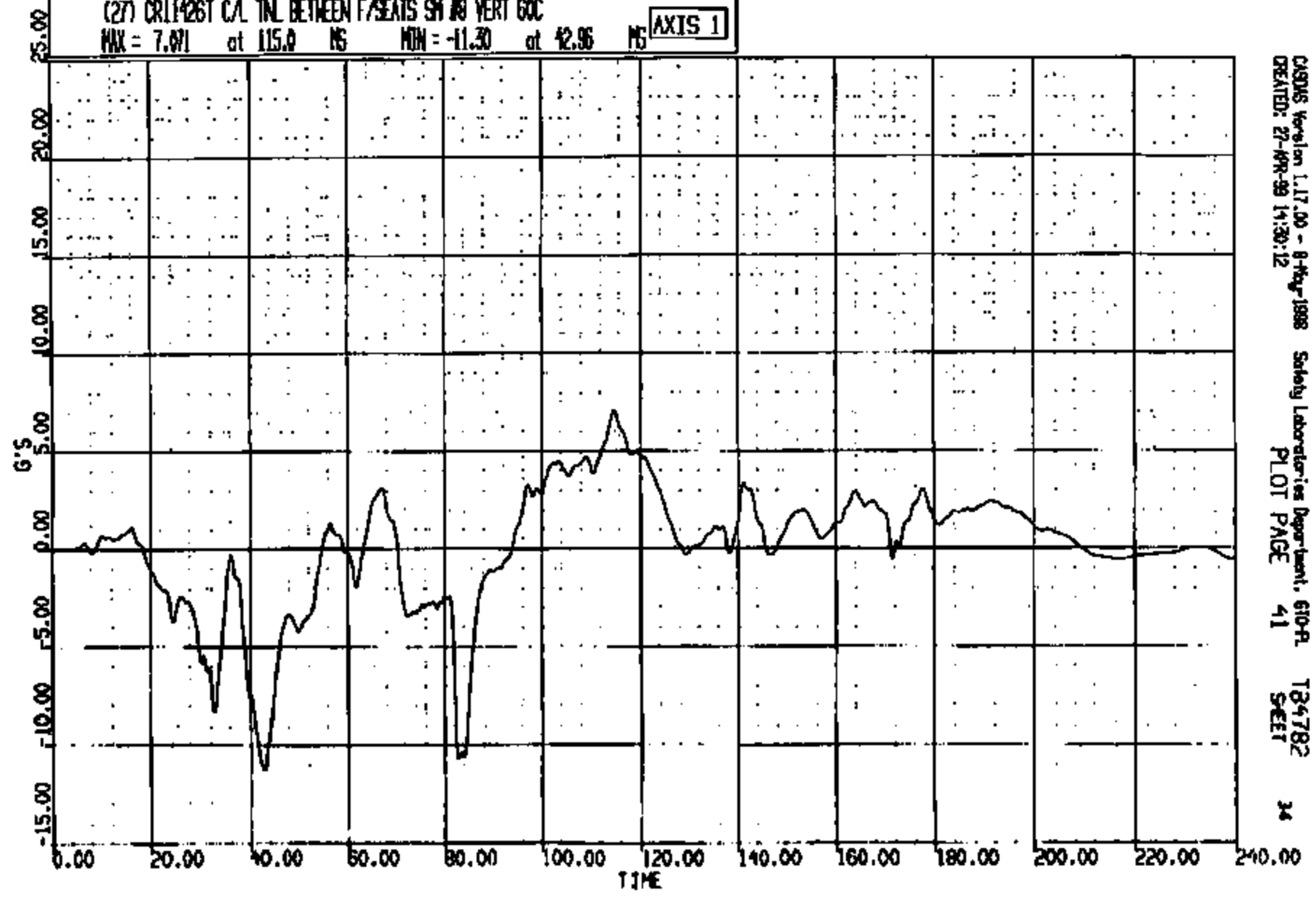
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CRTS 0011426

CR R: 11426 TO: TB4782 DATE: 890427 14:05:39
20005 FN-145LWS MOVING DEFORMABLE BA

(27) CRIT426T CAL TNL BETWEEN F/SEATS SH #0 VERT GOC
MAX = 7.071 at 115.0 MS MIN = -11.30 at 42.95 MS **AXIS 1**



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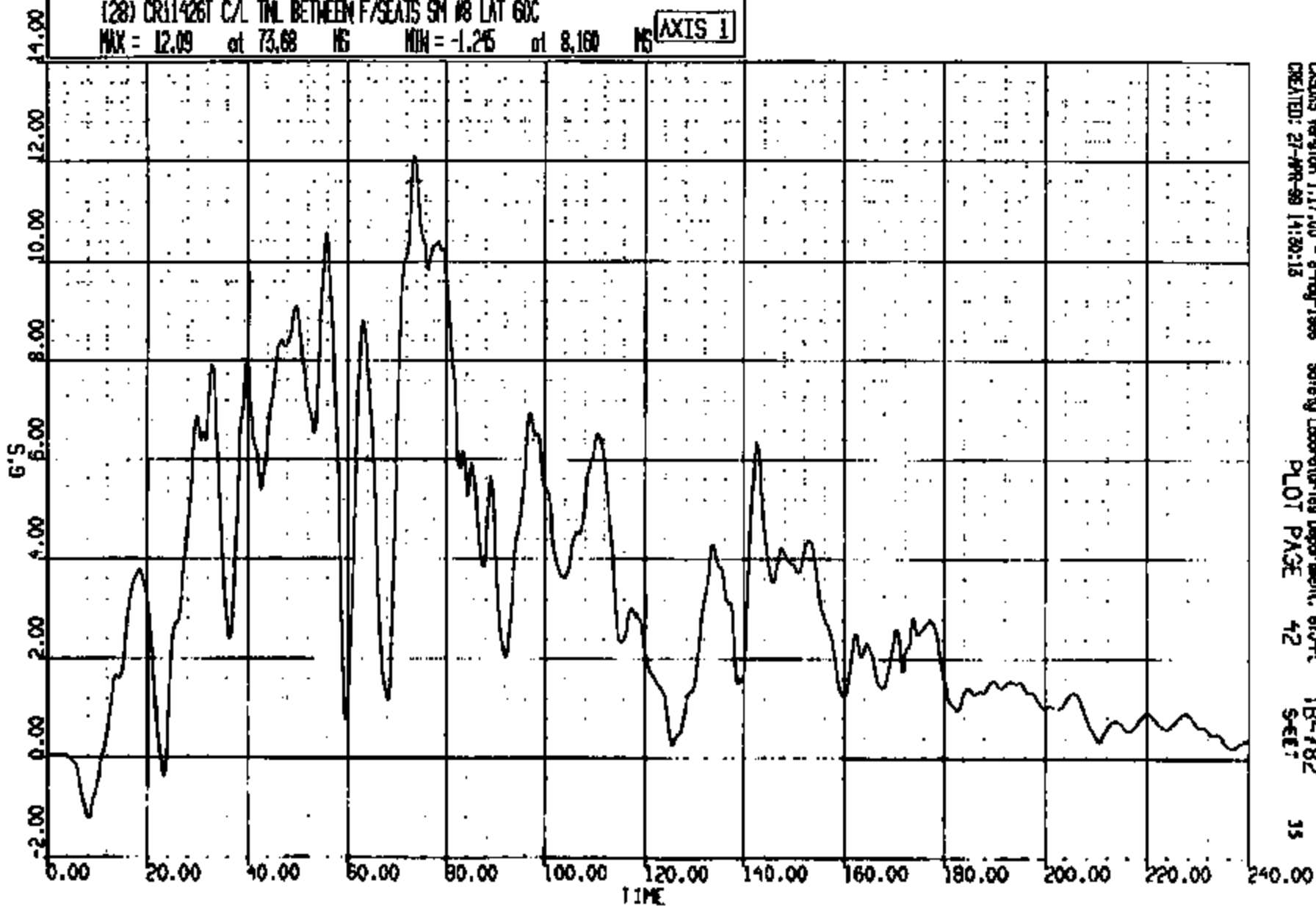
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CR R: 11426 TO: TB4782 DATE: 980427 14:05:59
20005 FN-146LWB MOVING DEFORMABLE BA

(28) CR11426T C/L TNL BETWEEN F/SEATS SM #8 LAT 60C

MAX = 12.09 at 73.68 MS MIN = -1.25 at 8.160 MS

AXIS 1



CRTS 0011426

CASDS Version 1.17.00 - 8-May-1998
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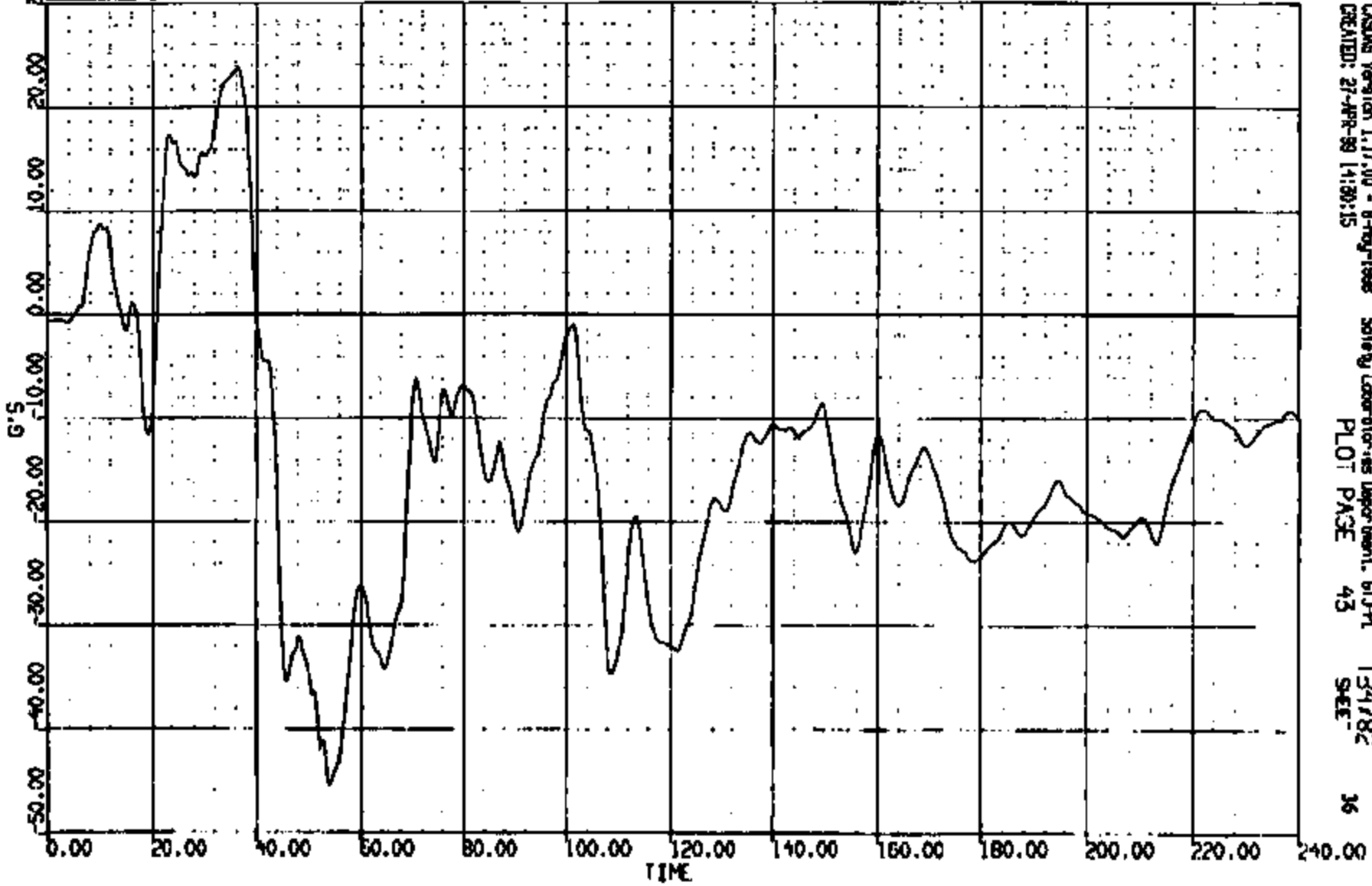
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CR R: 11426 TO: TB4782 DATE: 990427 14:05:59
20006 FN-145LWB MOVING DEFORMABLE BA

(29) CR11426T L/B-PLR INSIDE @ ROOF LAT 60C
MAX = 23.87 at 36.40 MS MIN = -5.55 at 51.40 MS **AXIS 1**



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CREATED: 27-APR-99 14:30:15

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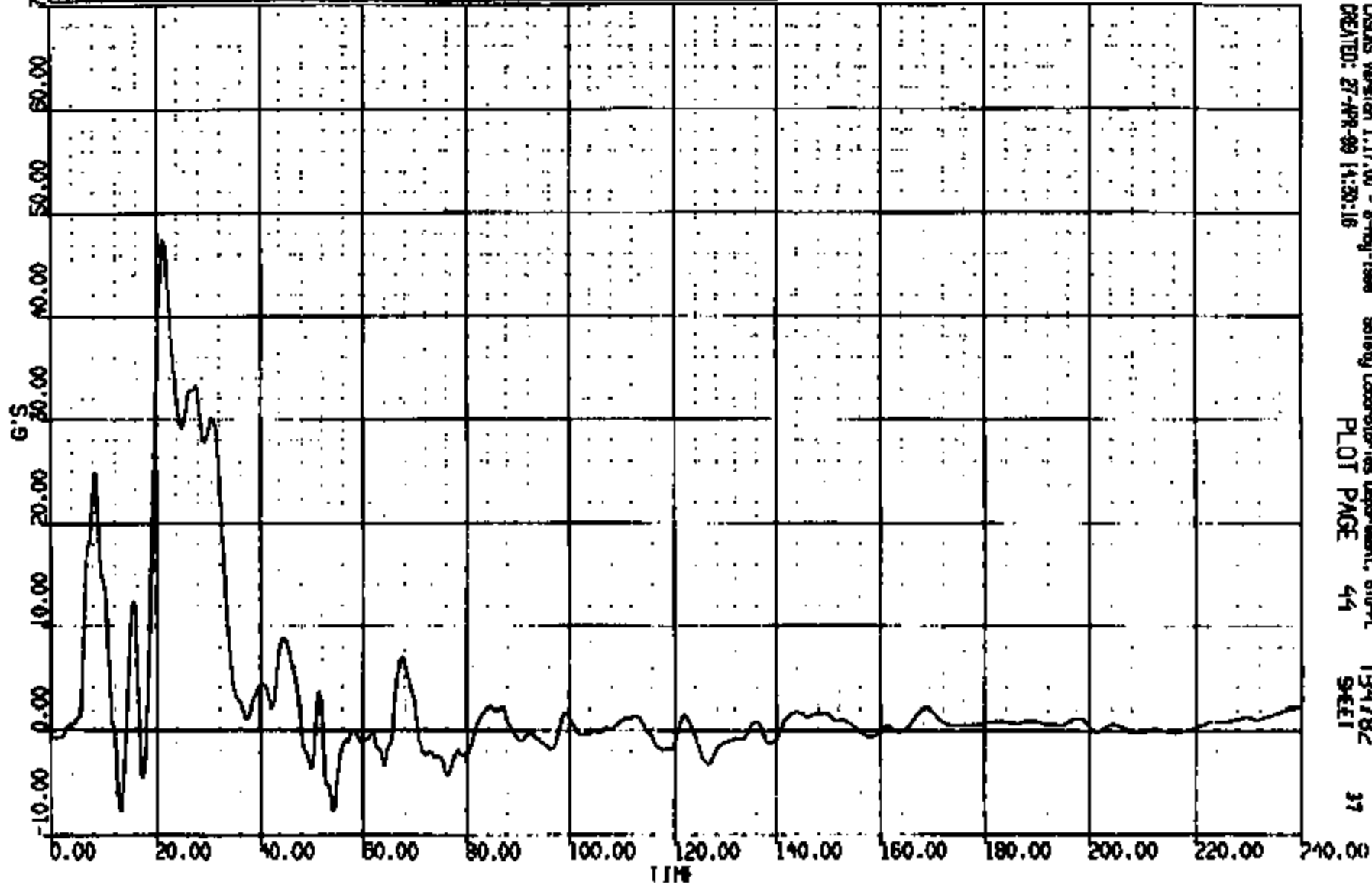
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CR R: 11426 TO: TB4782 DATE: 880427 14:05:29
R00006 FN-146LWB MOVING DEFORMABLE BA

(30) CR11426T L/B-PLR INSIDE @ BELTLINE LAT 60C
MAX = 47.35 at 21.35 MS MIN = -7.856 at 54.08 MS **AXIS 1**



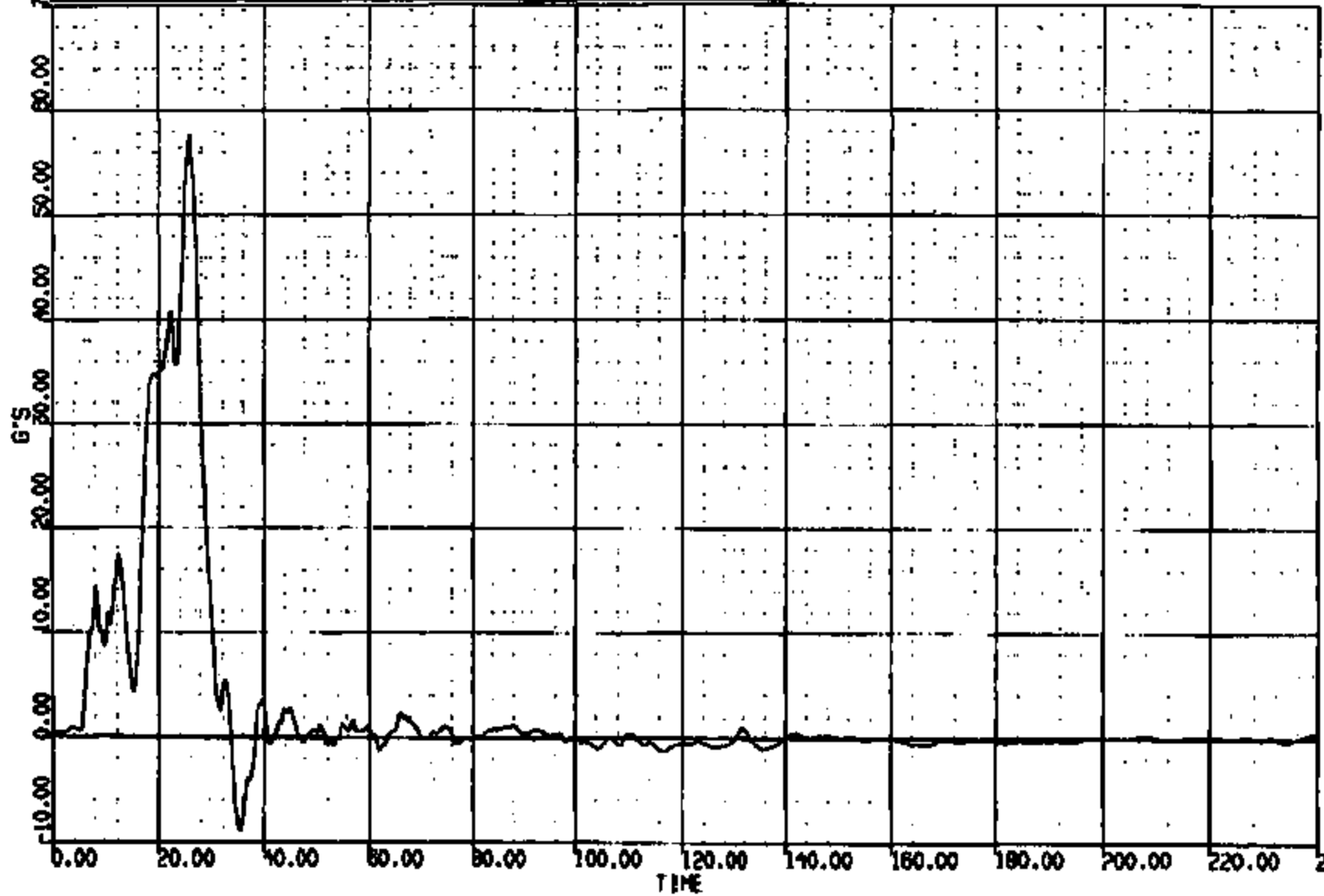
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CR 7: 11426 TO: TB4782 DATE: 890427 14:05:39
20006 FN-145LHS MOVING DEFORMABLE BA

(31) CR11426 L/R-PLR INSIDE @ ROCKER LAT 60C
MAX = 57.66 at 25.75 MS MIN = -8.987 at 35.52 MS **AXIS 1**



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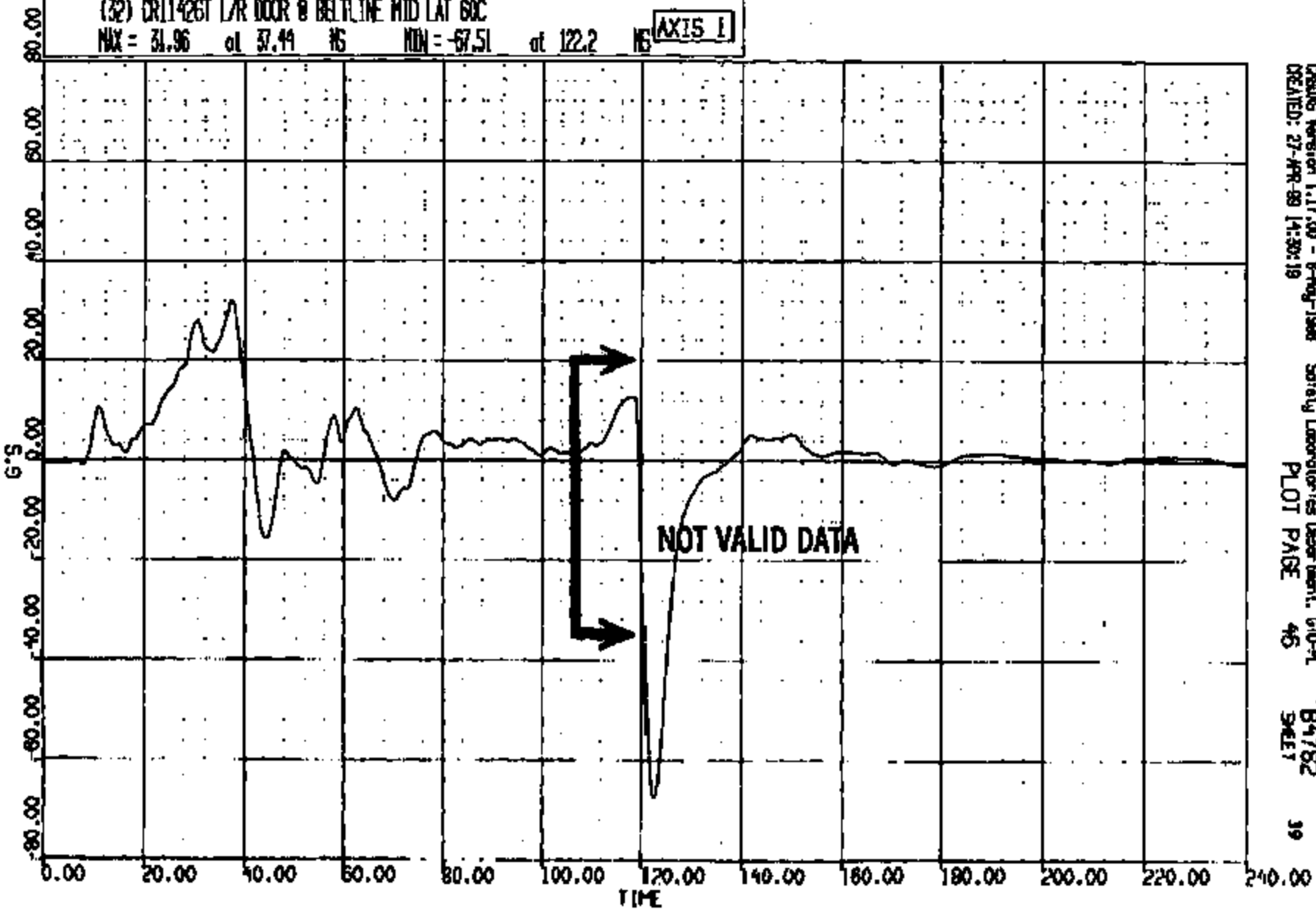
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20006 FZ-146LHB MOVING DEFORMABLE BA

(32) CR11426T L/R DOOR @ BELTLINE MID LAT SOC

MAX = 31.96 at 37.41 HS MIN = -67.51 at 122.2 HS

AXIS 1



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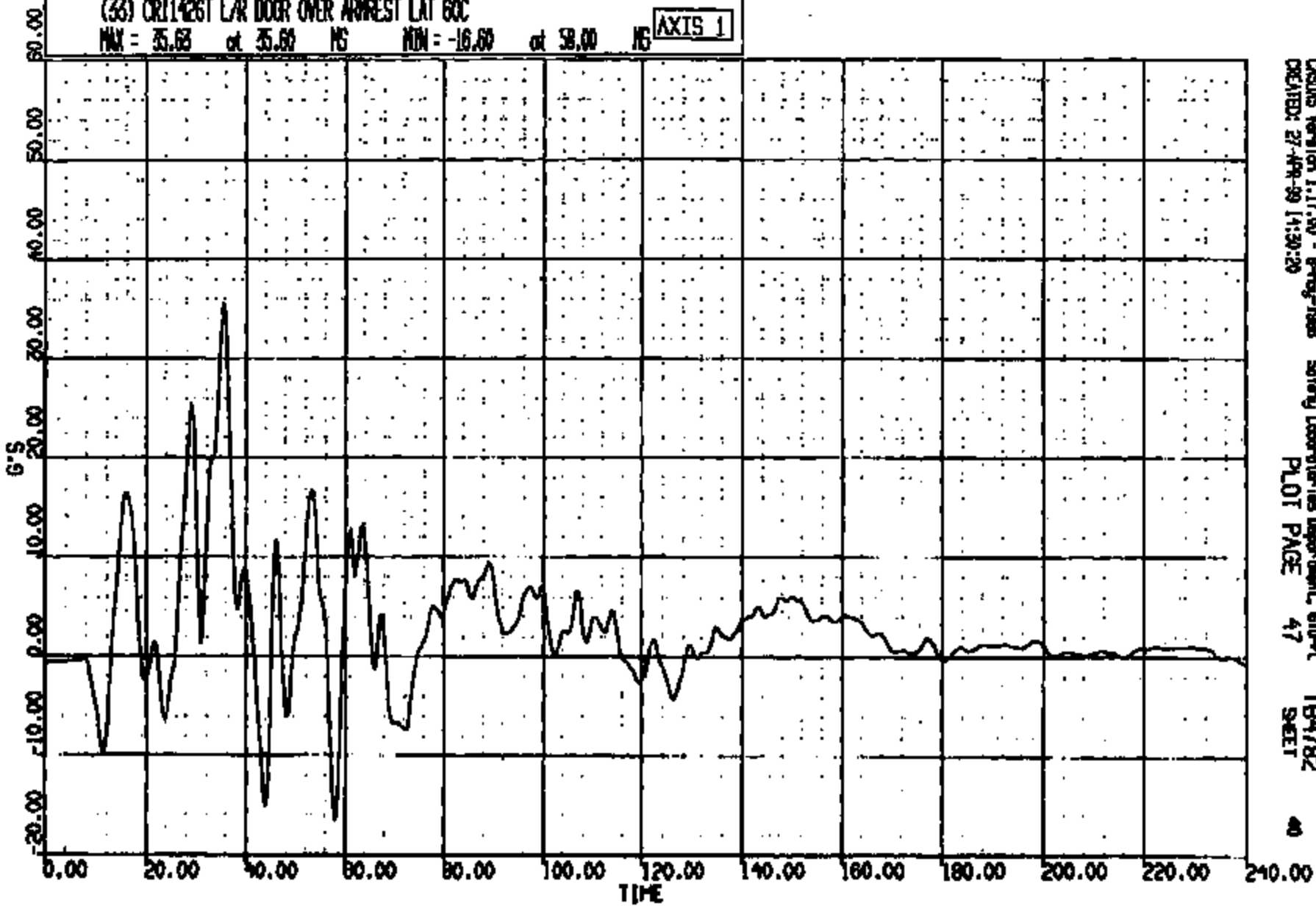
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CR R: 11426 TO: TB4782 DATE: 990427 14:05:59
20005 FN-145LWB MOVING DEFORMABLE BA

(36) CR11426T L/R DOOR OVER ARREST LAT 60C
MAX = 35.63 at 35.60 MS MIN = -16.60 at 58.00 MS

AXIS 1



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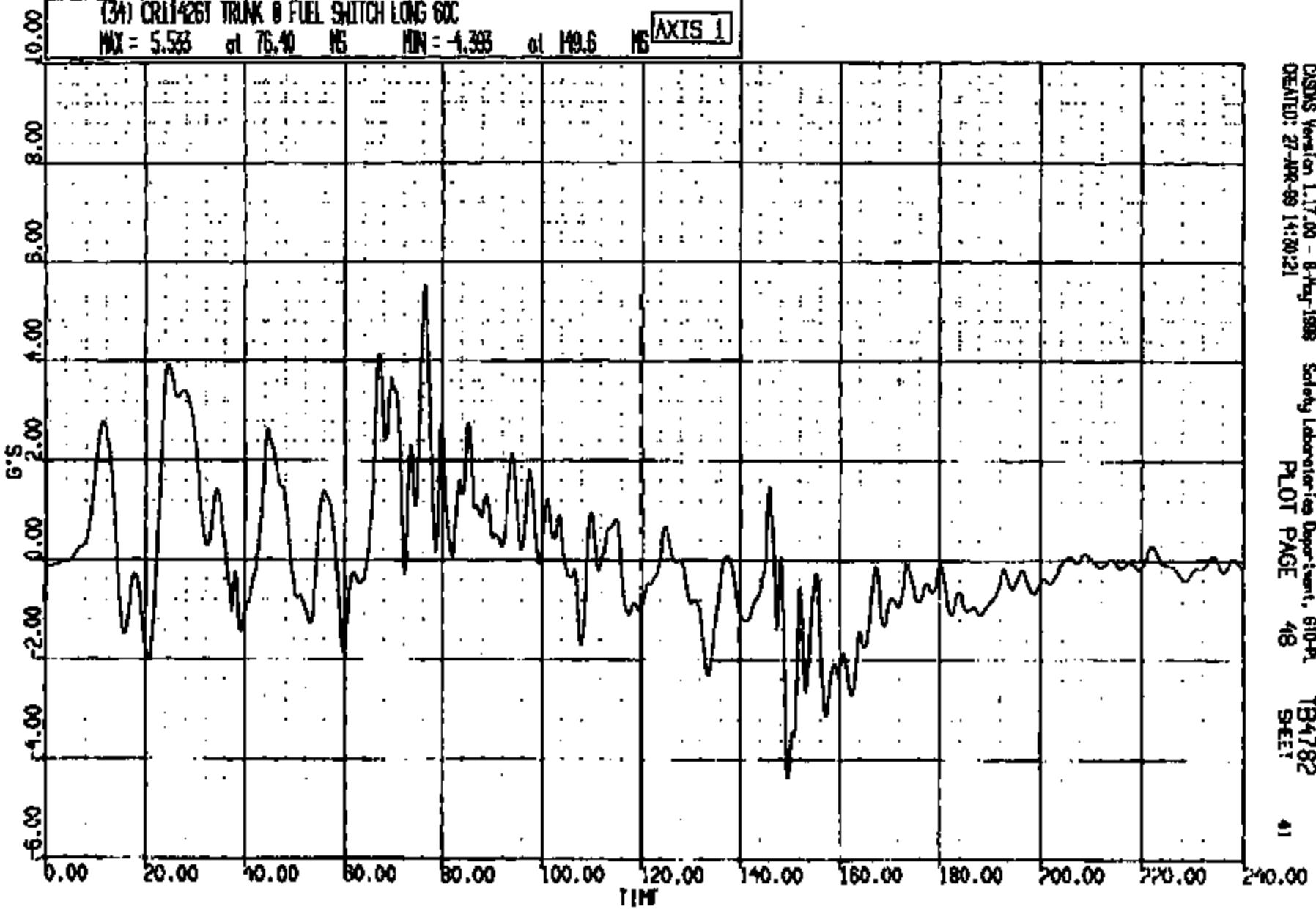
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CRTS 0011426

CR R: 11426 TO: TB4782 DATE: 890427 14:05:59
20005 FN-146LWB MOVING DEFORMABLE BA

(34) CR114261 TRUNK @ FUEL SWITCH LONG 60C
MAX = 5.533 at 76.40 MS MIN = -4.333 at 149.6 MS **AXIS 1**



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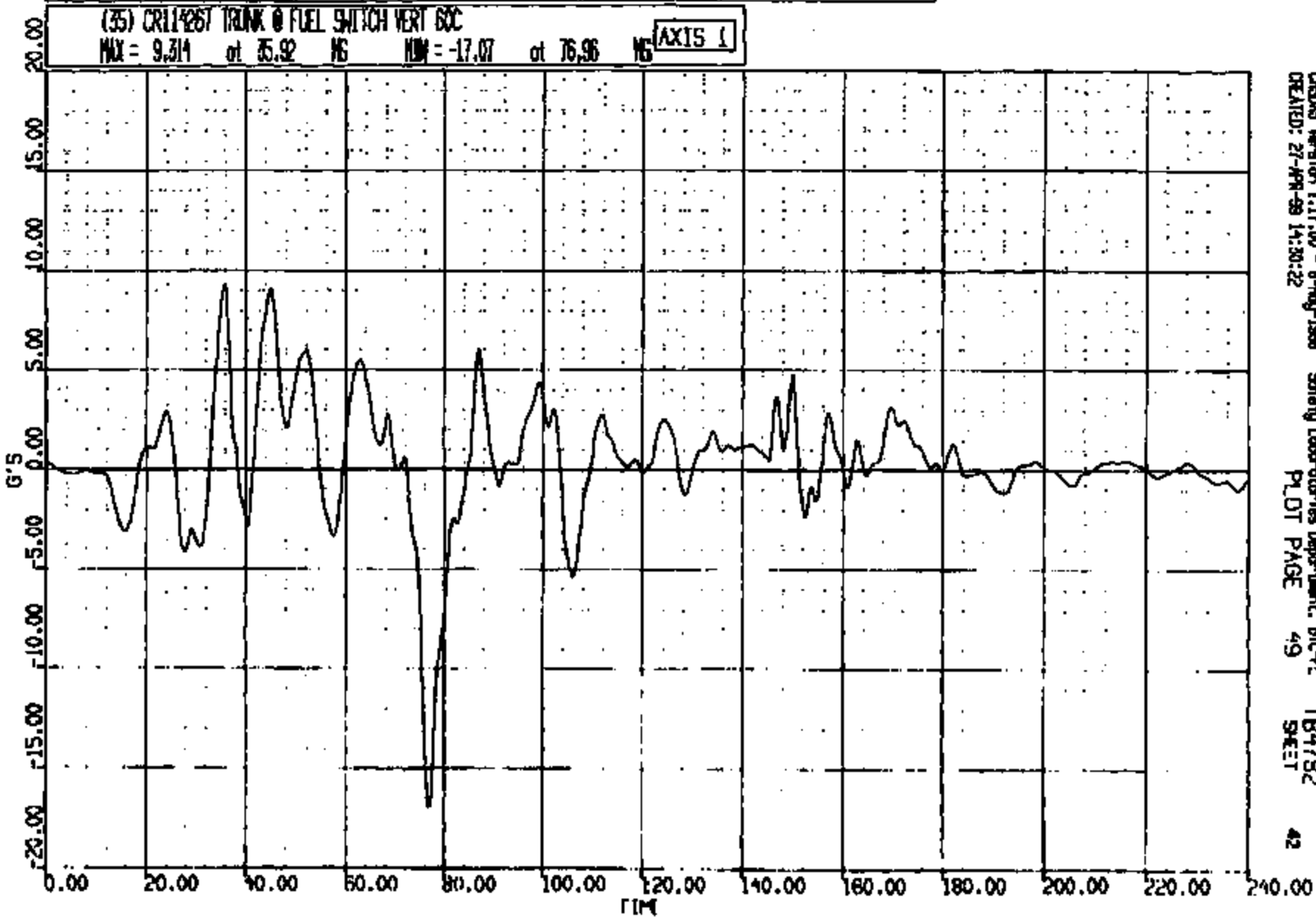
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CR R: 21426 TO: 764782 DATE: 990427 14:06:59
90005 FN-145LWB MOVING DEFORMABLE BA

(35) CR114267 TRUNK @ FUEL SWITCH VERT GDC

MAX = 9.314 at 35.92 MS MIN = -17.07 at 76.96 MS

AXIS 1



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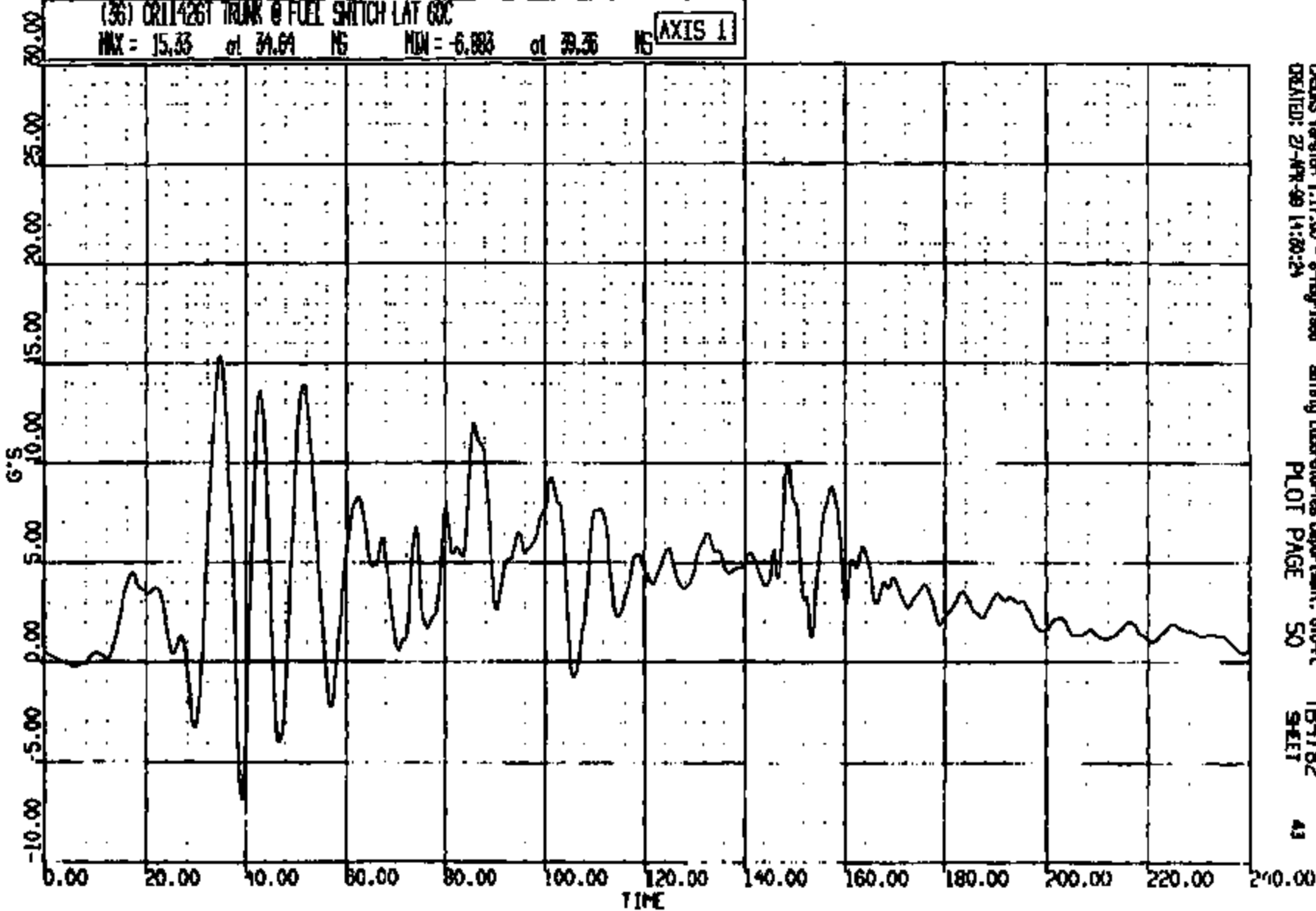
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CR R: 11426 TO: TB4782 DATE: 880427 14:06:30
20005 FN-148LWB MOVING DEFORMABLE BA

(36) CR11426T TRUNK @ FUEL SWITCH LAT GXC

MAX = 15.33 at 34.64 MS MIN = -6.883 at 39.36 MS

AXIS 1



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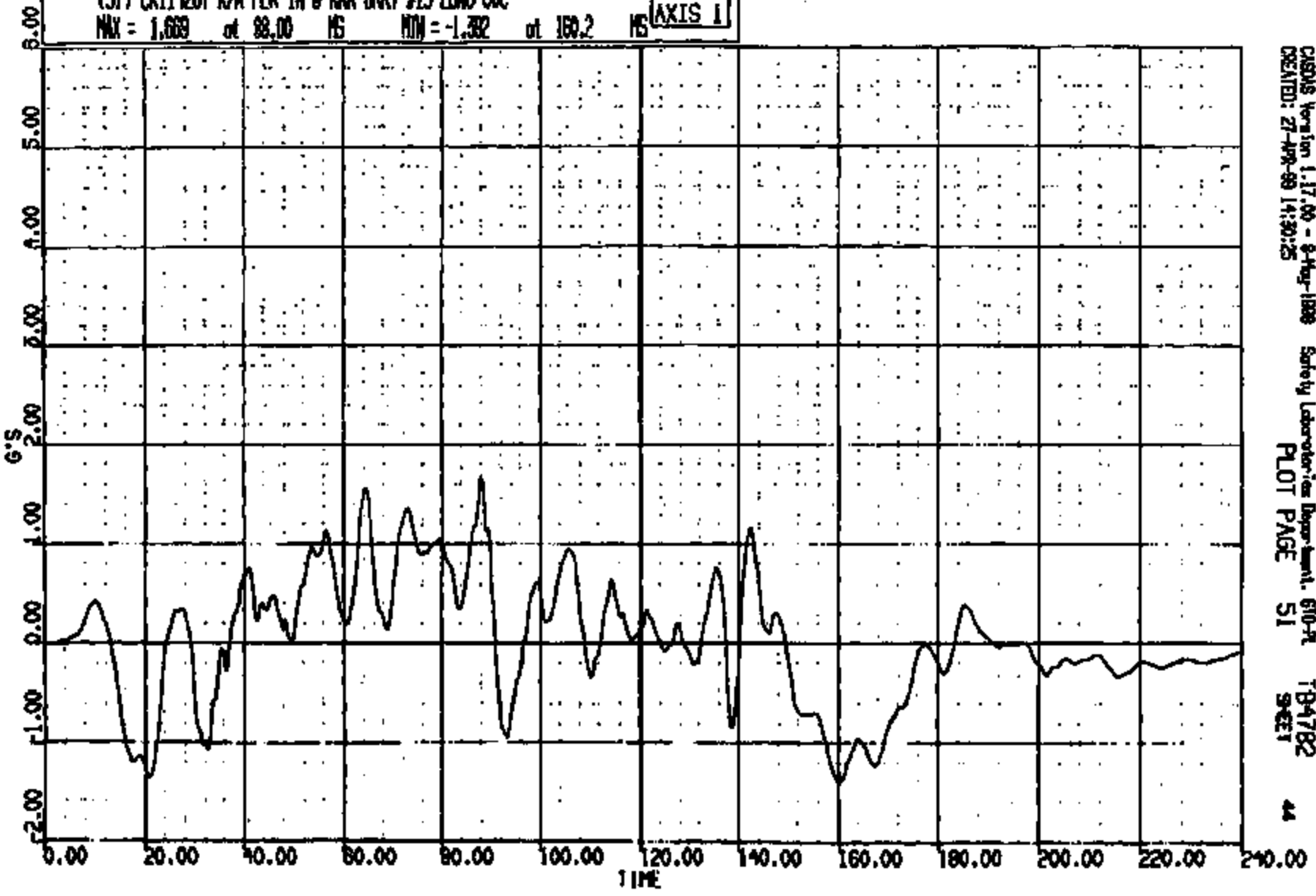
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CR R: 11426 TO: T84782 DATE: 980427 14:05:58
20005 FN-145LWB MOVING DEFORMABLE BA

(37) CR11426T R/A-PLR TN @ RKR BRKT FL3 LONG GUC
MAX = 1.669 at 98.00 MS MIN = -1.392 at 160.2 MS **AXIS 1**



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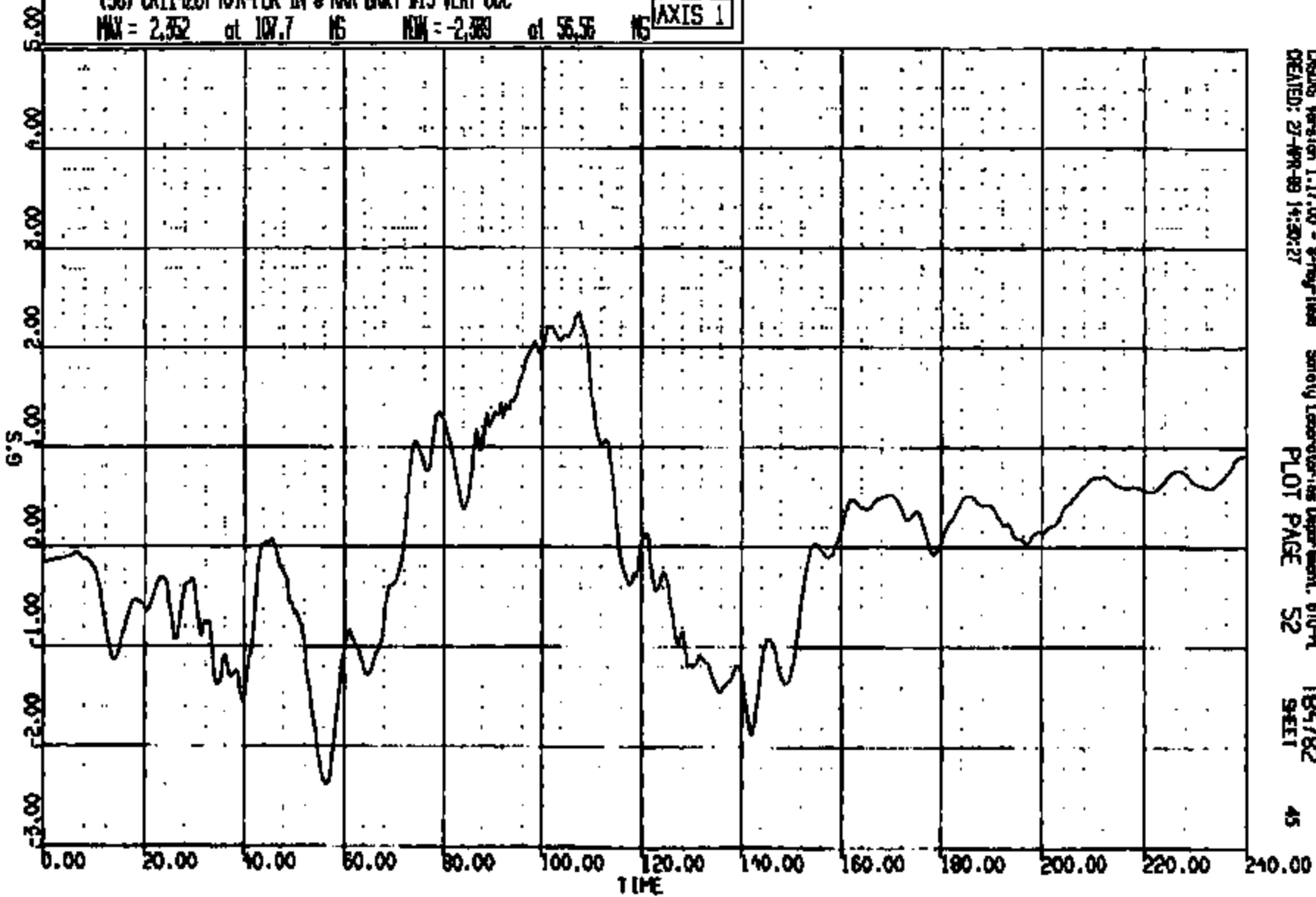
CRTS 0011426

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CR R: 11426 TO: TB4782 DATE: 880427 14:05:38
20005 FN-198LWS MOVING DEFORMABLE SA

(38) CR11426T R/A-PLR IN @ RKR BRKT #13 VERT 60C
MAX = 2.352 at 107.7 NS MIN = -2.389 at 56.56 NS

AXIS 1



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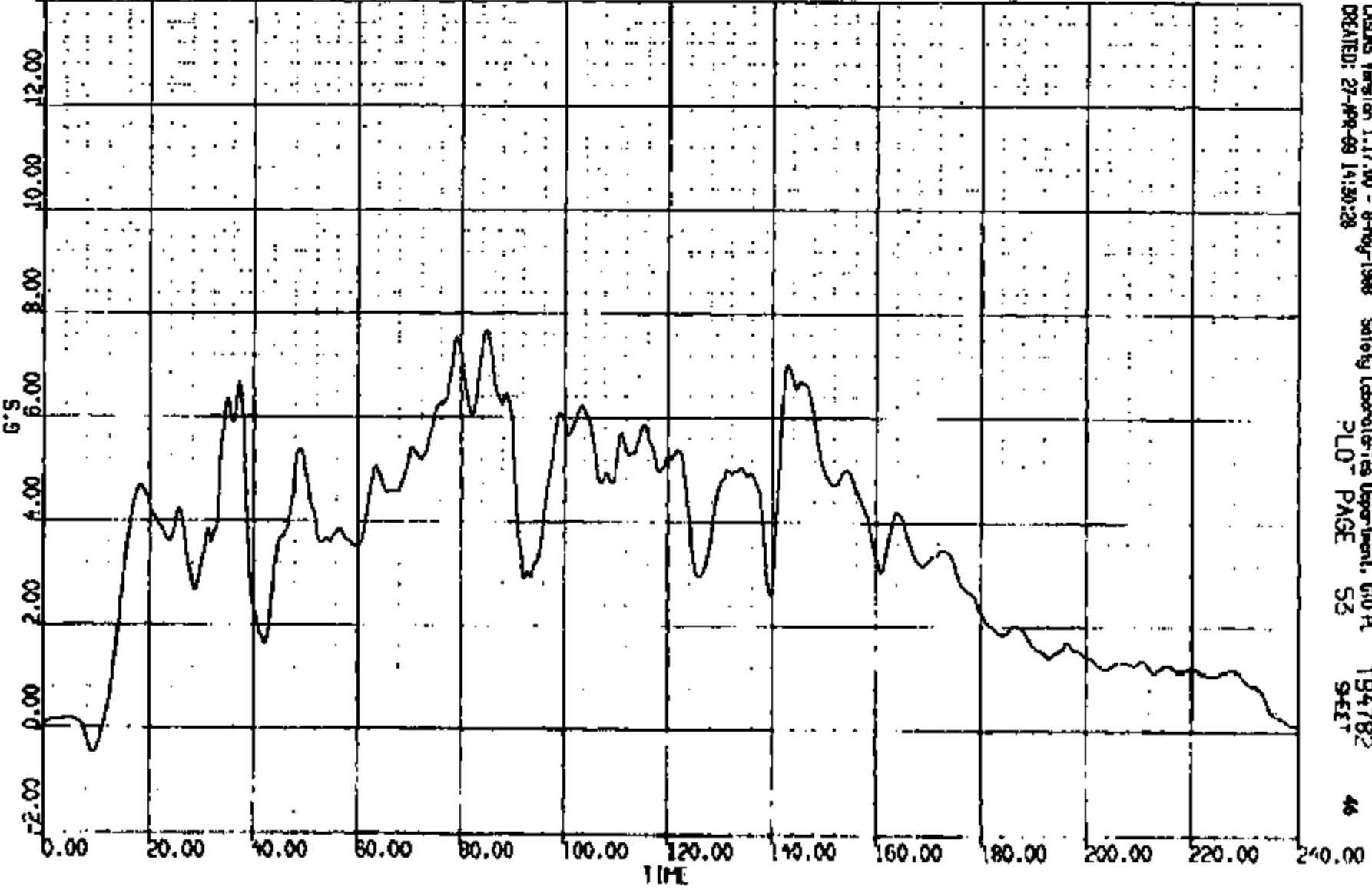
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CRIS 0011426

CR R: 11426 TD: T94782 DATE: 990427 14:05:30
20005 FN-14SLWB MOVING DEFORMABLE BA

(39) CR11426T R/A-PLR IN @ RKR BRKT #13 LAT 60C
MAX = 7.676 at 84.88 MS MIN = -.4832 at 9.120 MS **AXIS 1**



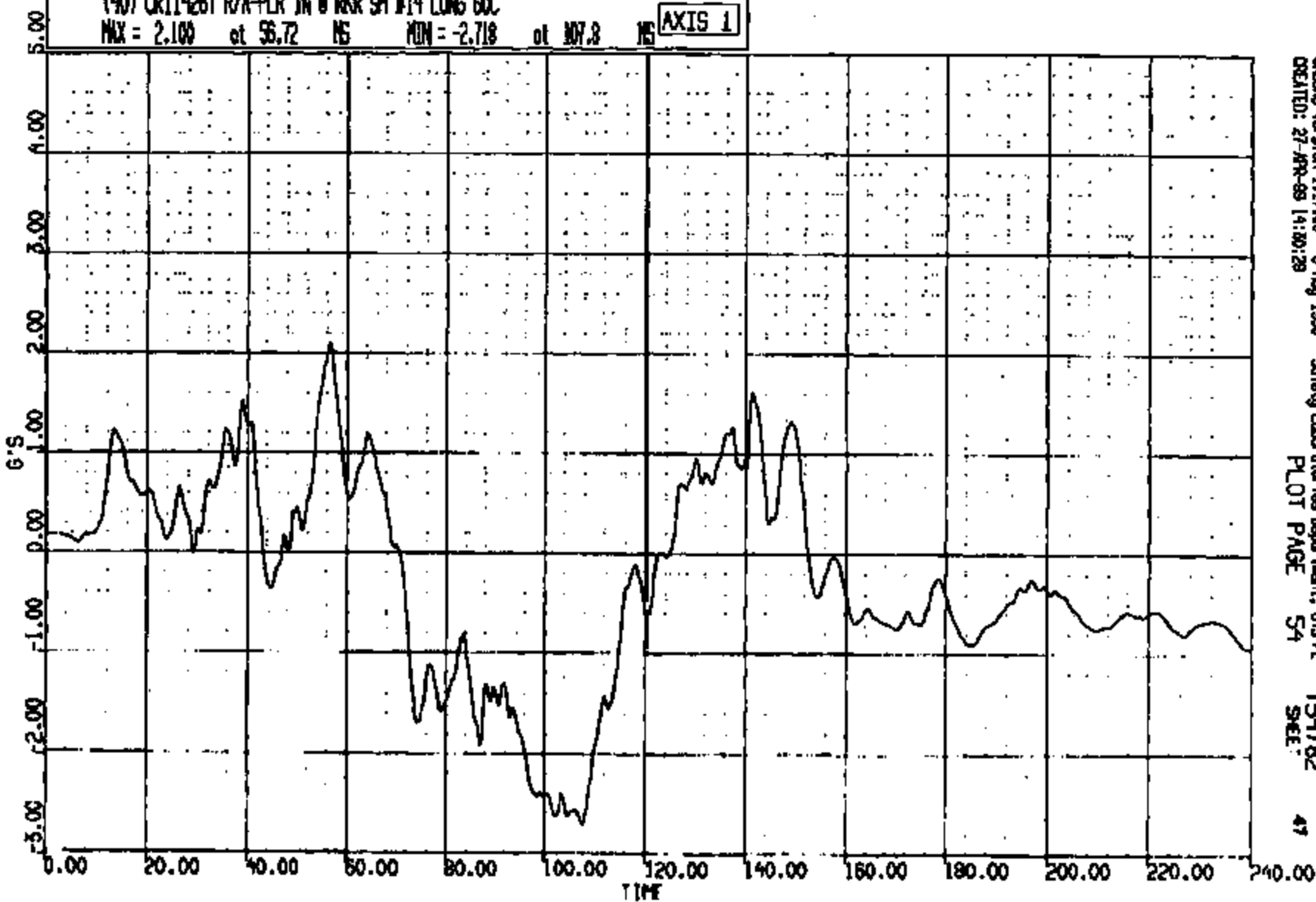
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CR R: 11426 TO: TB4782 DATE: 880427 14:05:59
20005 FN-14SLWB MOVING DEFORMABLE SA

(40) CR11426T R/A-PLR IN @ RKR 94 #14 LONG 60C
MAX = 2.100 at 56.72 MS MIN = -2.718 at 107.8 MS **AXIS 1**



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