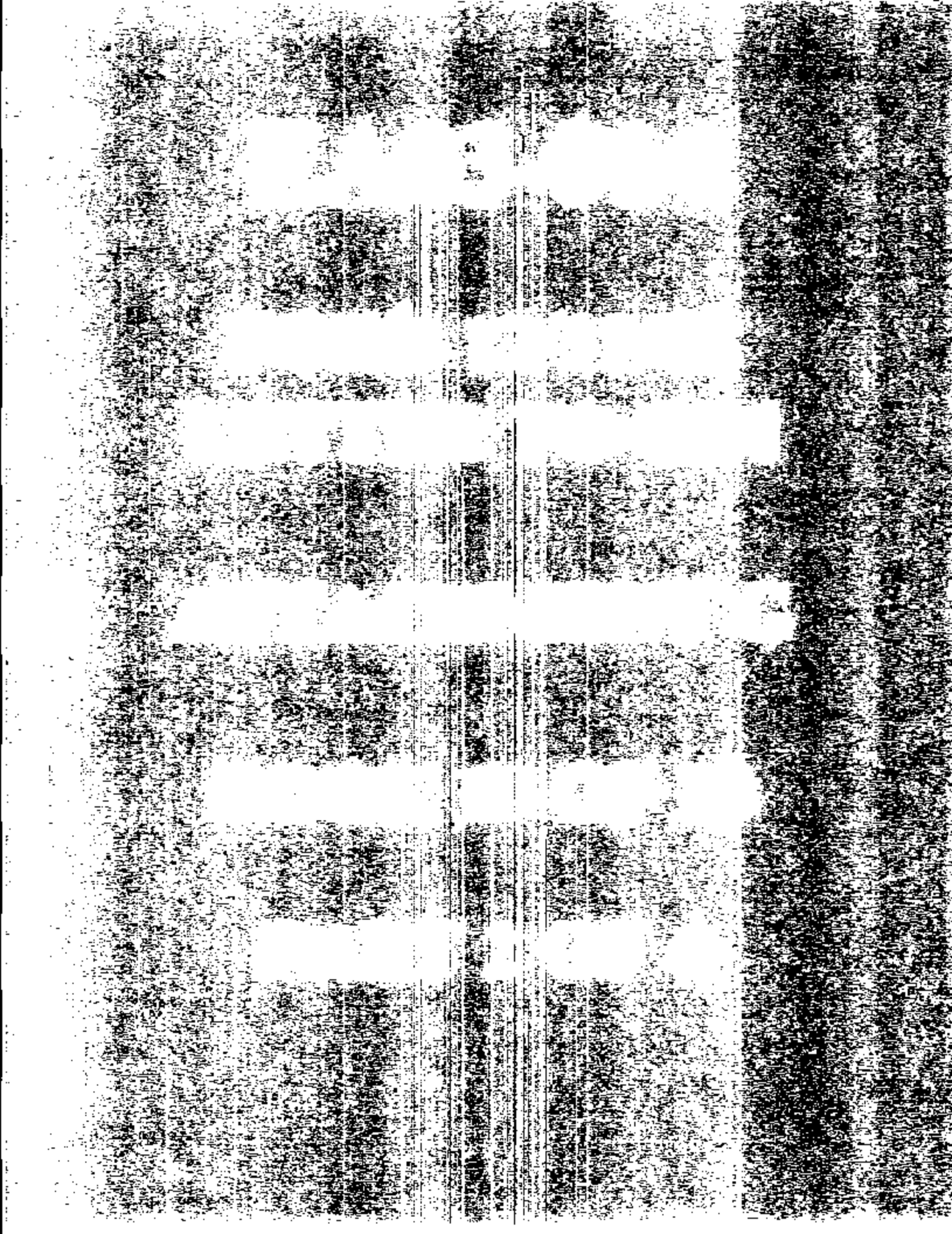
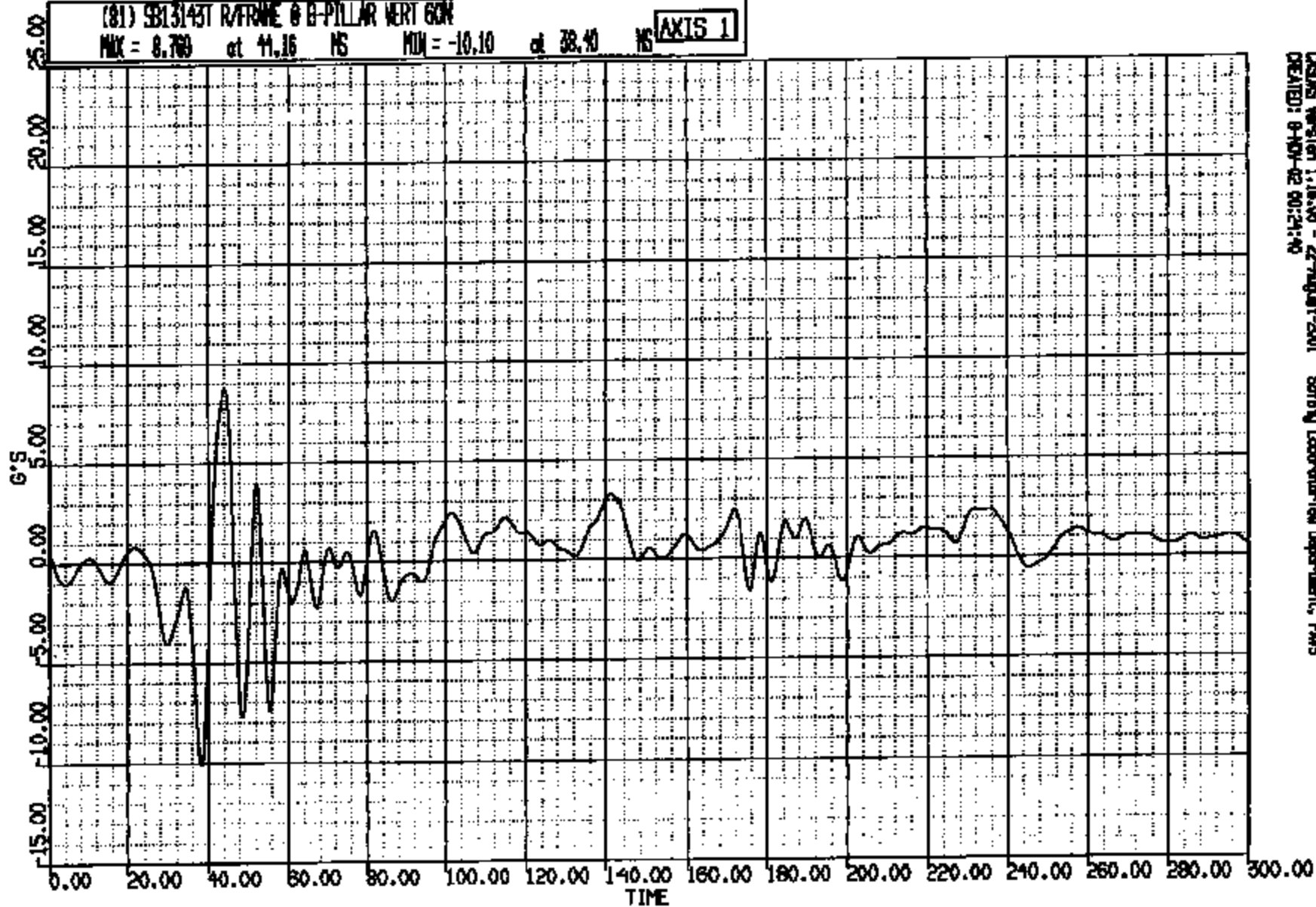




SB R: 18148 TO: JB7988 DATE: 02-OCT-2002 10:42:54
2003 EN114

(81) 5513143T R/F/FRAME @ B-PILLAR WERT GON

MAX = 8.760 at 41.16 NS MIN = -10.10 at 38.40 NS **AXIS 1**



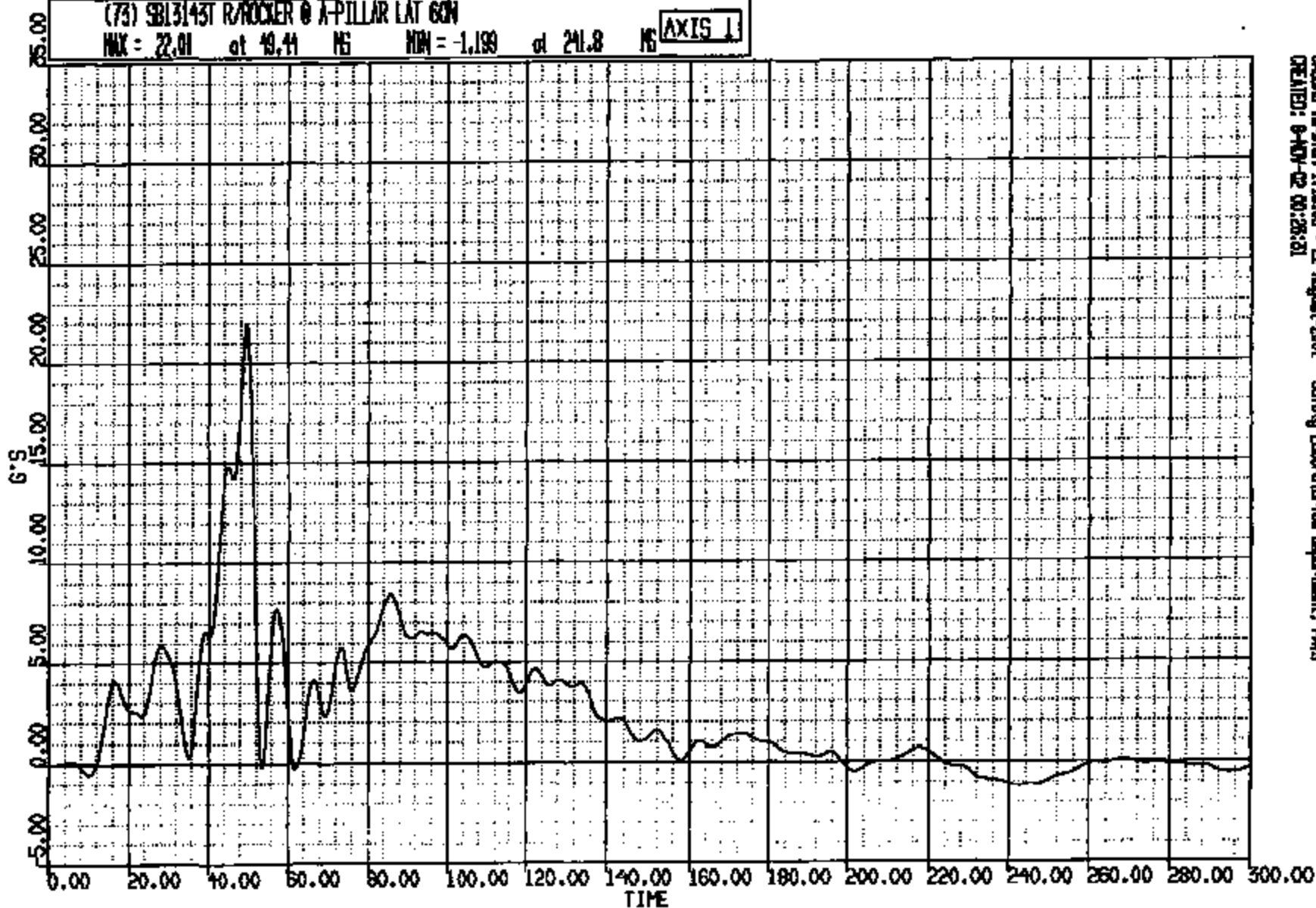
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SE R: 15145 TO: JB7956 DATE: 02-OCT-2003 10:42:34
2003 EN114

(73) SBL3143T R/ROCKER @ A-PILLAR LAT 60N

MAX = 22.01 at 49.44 MS MIN = -1.199 at 241.8 MS

AXIS 1



CRIS 0013143

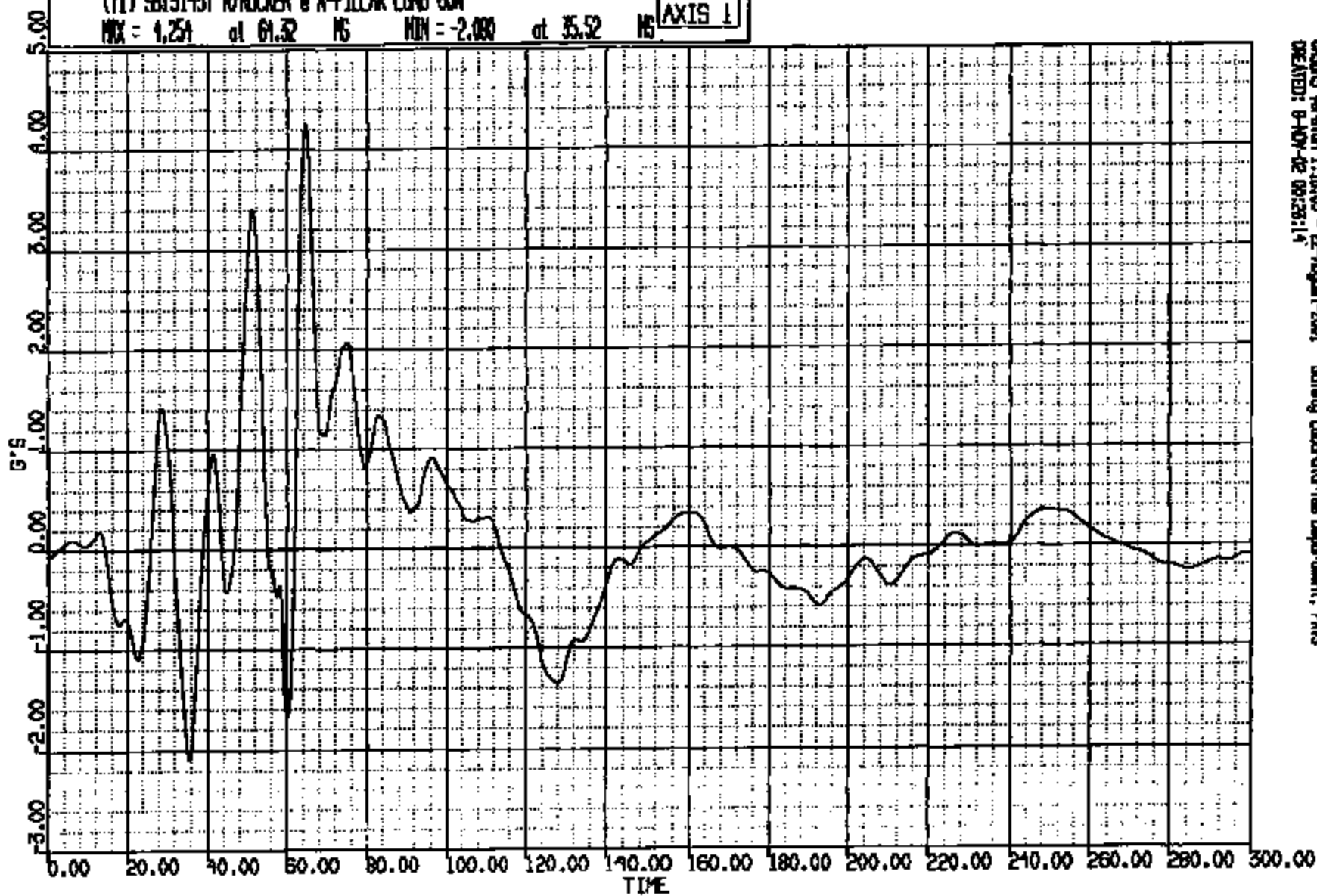
CAS908 Version 1.18.03 - 23-August-2001 Safety Laboratories Department, PHS
CREATED: 8-NOV-02 00:28:01

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98 R: 12145 TO: JB7226 DATE: 02-OCT-2002 10:42:54
8005 EN114

(71) SB131437 R/ROCKY @ A-PILLAR LONG GUN

MAX = 1.254 at 61.52 MS MIN = -2.080 at 35.52 MS



OSDMS Version 1.18.05 - 22-August-2001
 CREATED: 8-MAY-02 09:28:14
 Safety Laboratories Department, PHS

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CRIS 0013143

SB R: 15145 TO: J87988 DATE: 09-OCT-2002 10:42:54
2008 EN114

(72) SB131431 R/ROCKER @ A-PILLAR VERT GON

MAX = 1.914 at 160.2 MS MIN = -5.088 at 48.96 MS

AXIS 1



CRS Version 1.18.08 - 22-August-2001 Safety Laboratories Department, PHS
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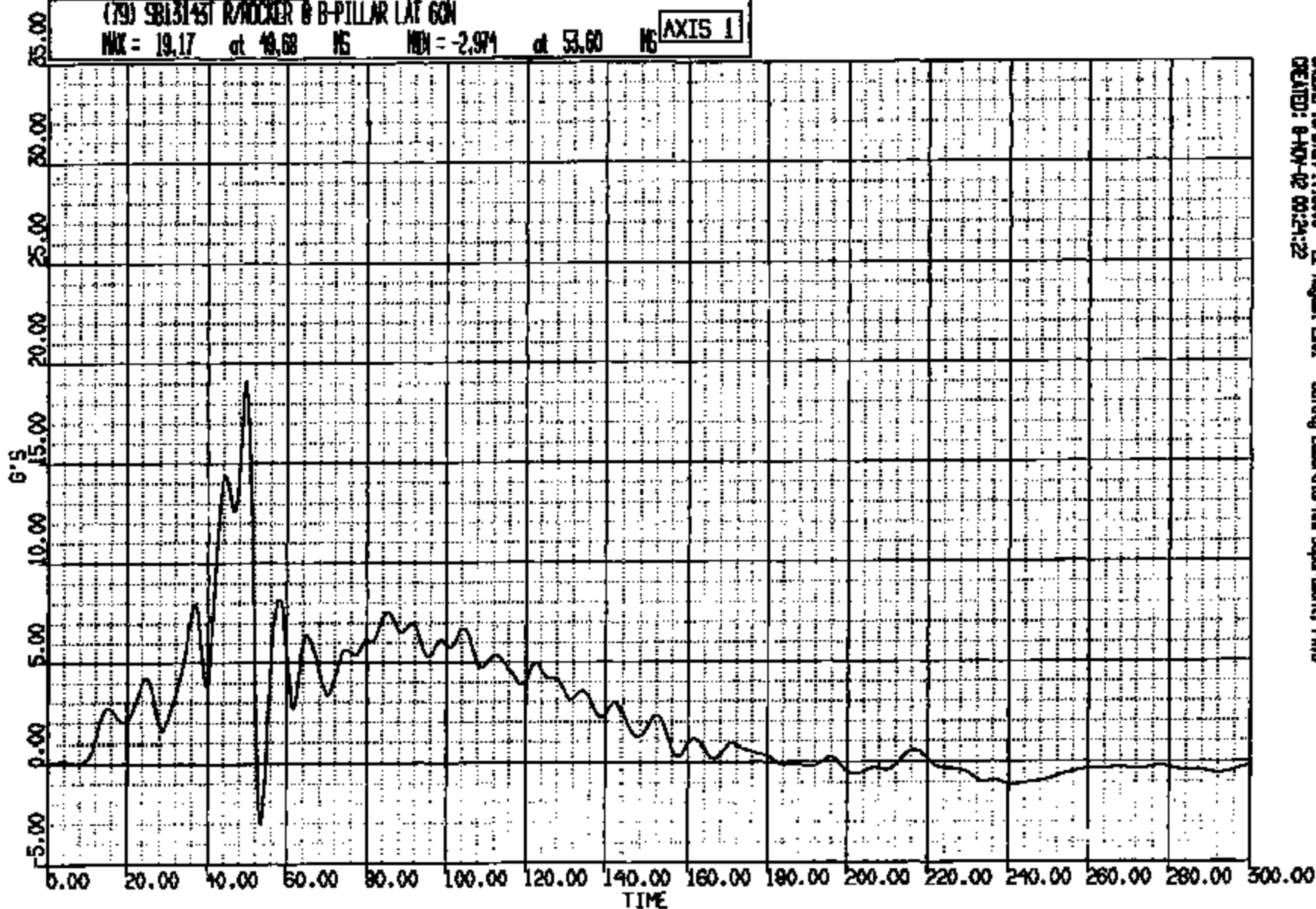
CRIS 0013143

SB R: 13143 TO: J87986 DATE: 02-OCT-2002 10:42:24
2003 EN114

(79) SB131431 R/ROCKER & B-PILLAR LAT CON

MAX = 19.17 at 49.68 NS MIN = -2.974 at 53.60 NS

AXIS 1



CRTS 0013143

CADDS Version 1.18.00 - 22-August-2001 Safety Laboratories Department, PHS
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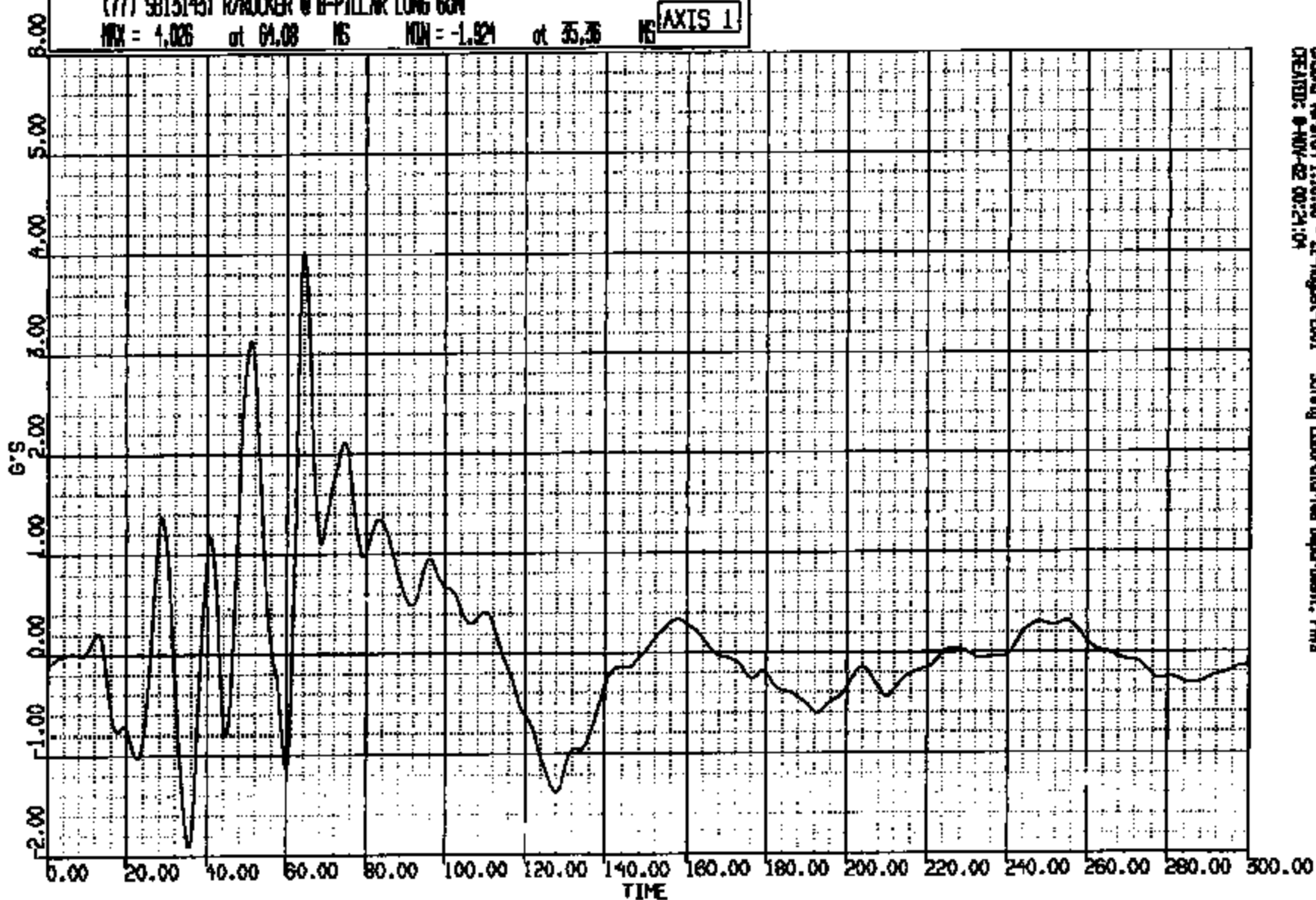
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BB R: 15143 TO: J87226 DATE: 02-OCT-2002 10:42:34
2002 EN114

(77) S813143T R/ROCKER @ B-PILLAR LONG GON

MAX = 4.026 at 64.08 MS MIN = -1.921 at 35.36 MS

AXIS 1



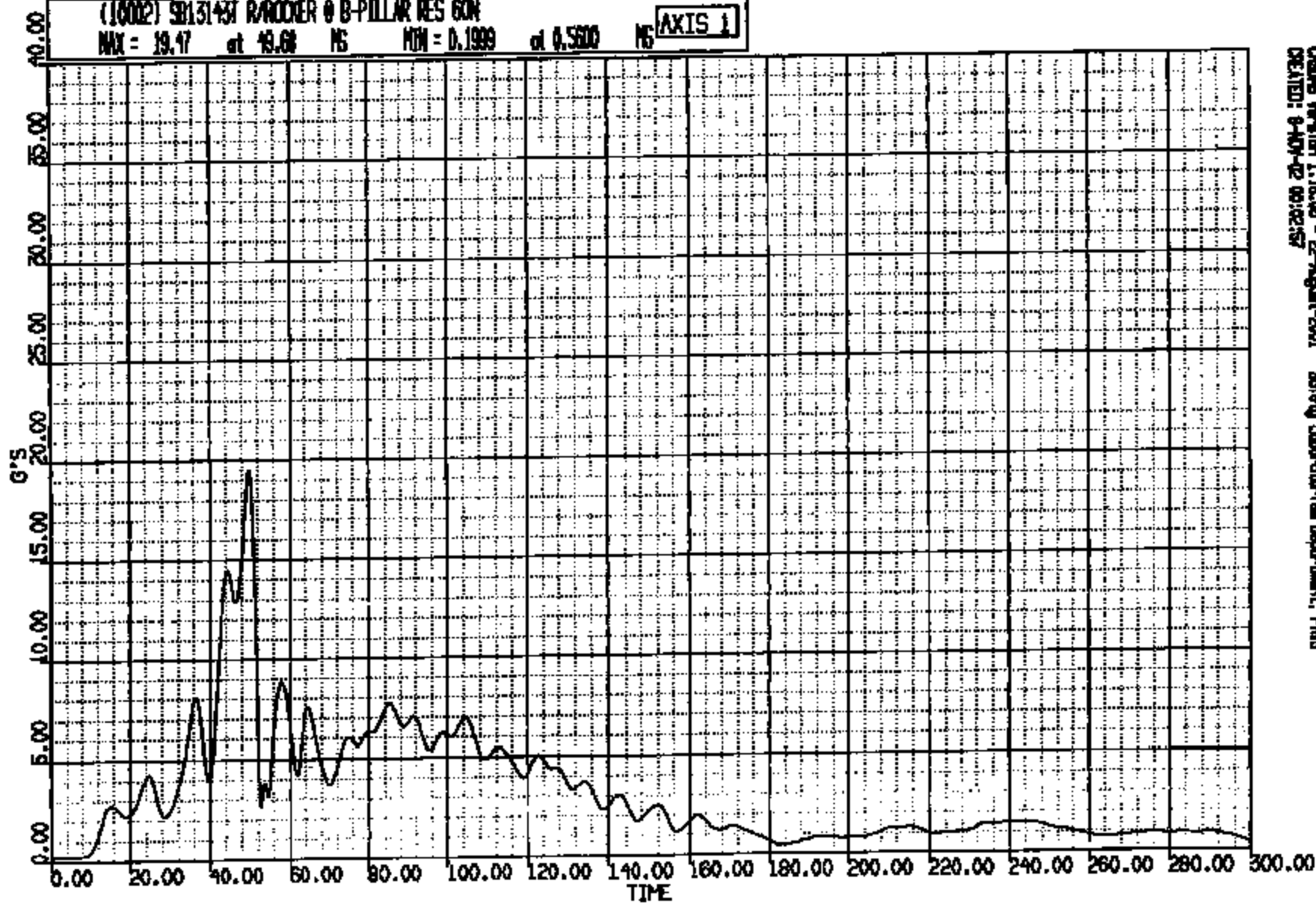
CRIS 0013143

SB #: 13143 TO: JBY088 DATE: 02-OCT-2002 10:42:34
2002 EN114

(10002) SB131437 R/WOOLER @ B-PILLAR RES 60N

MAX = 19.47 at 49.68 NS MIN = 0.1999 at 0.5600 NS

AXIS 1



CRTS 0013143

SB R: 15143 TO: J97966 DATE: 02-OCT-2002 10:42:34
2003 EN114

(78) SB13143T R/ROCKER @ B-PILLAR VERT GON

MAX = 1.890 at 102.9 MS MIN = -3.829 at 56.40 MS

AXIS 1

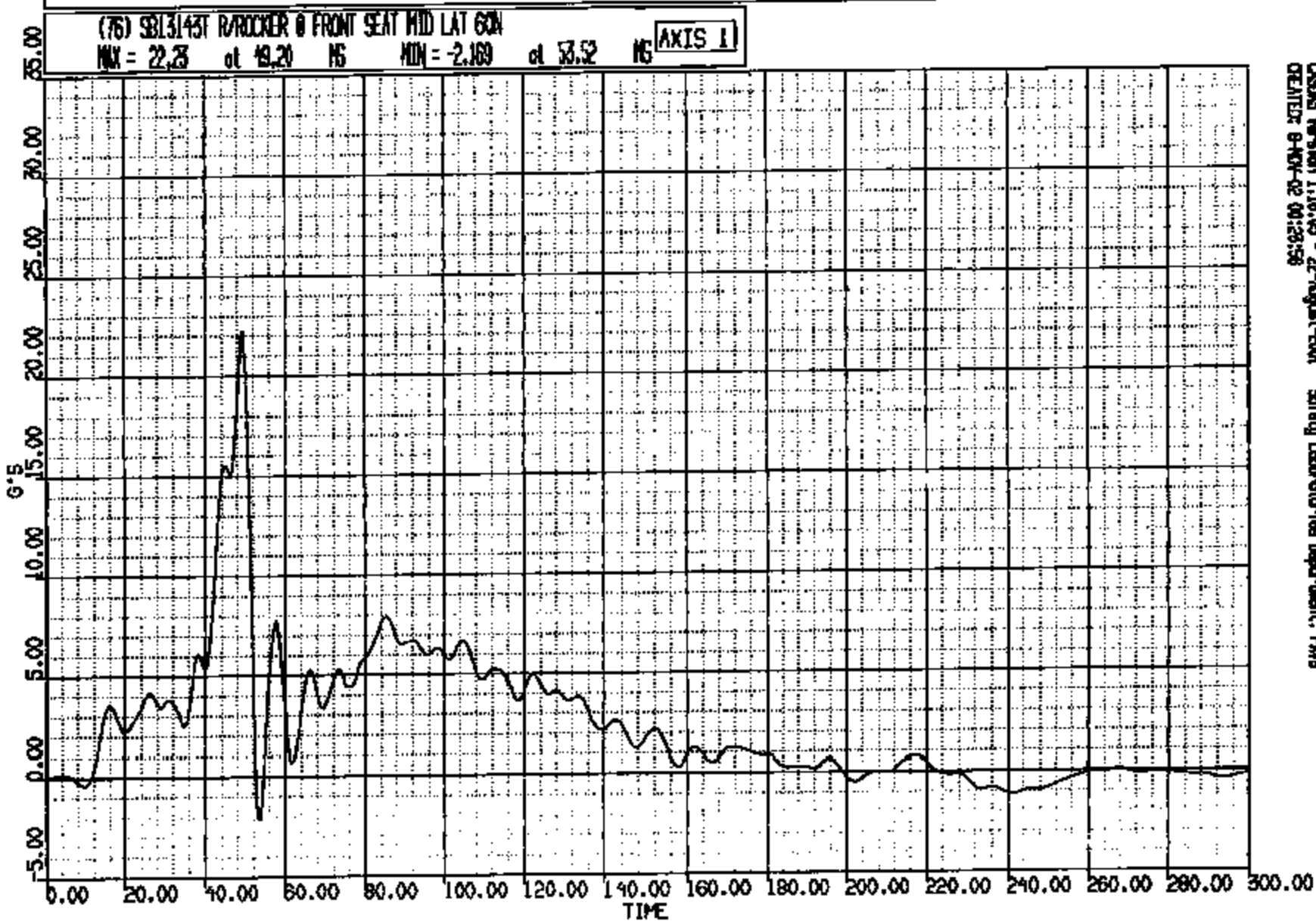


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2003 EN114



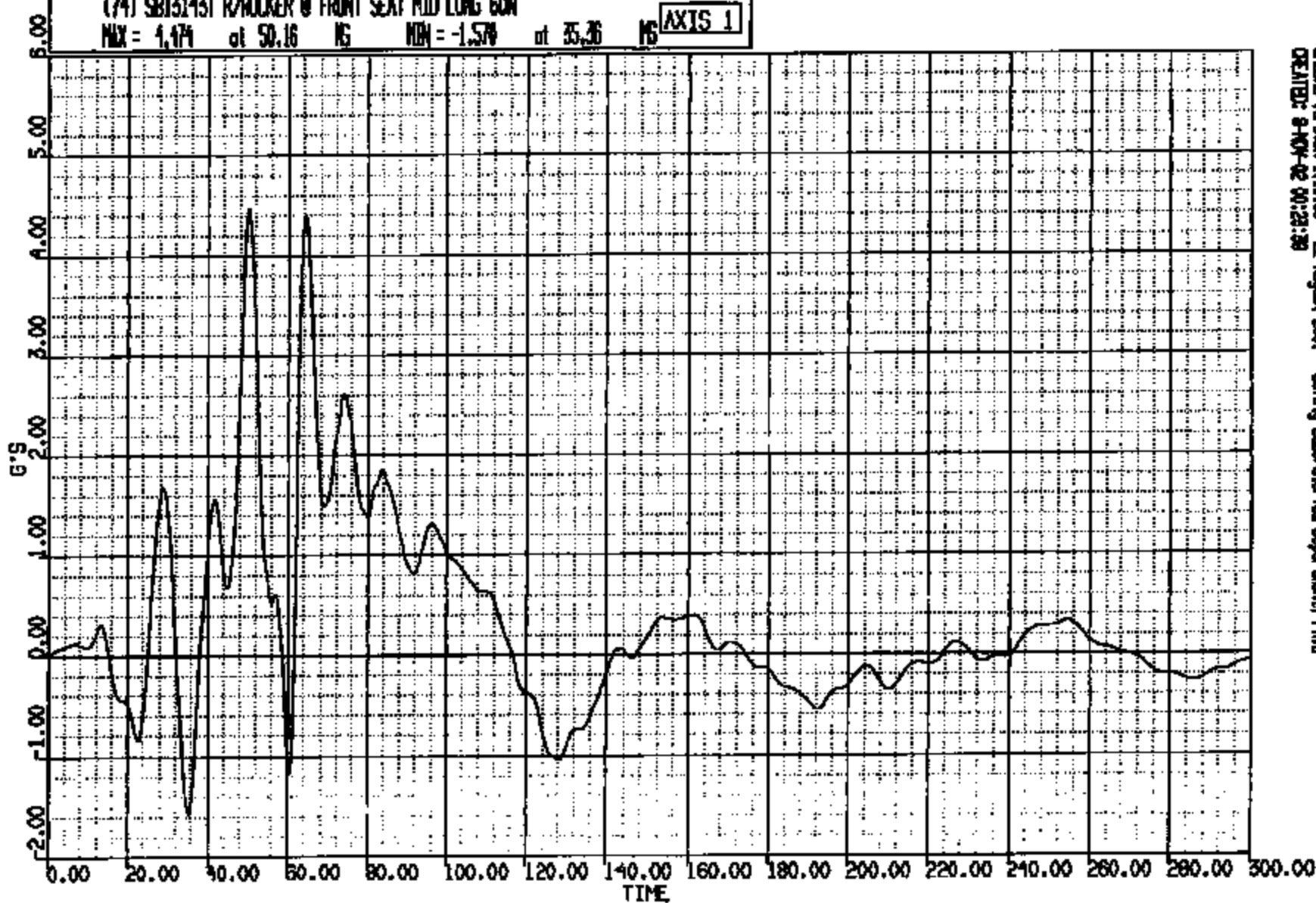
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SS R: 13143 TO: JB7988 DATE: 02-OCT-2002 10:42:54
2008 EN114

(74) SB13143T R/HOCKER @ FRONT SEAT MID LONG 60N

MAX = 1.174 at 50.16 NS MIN = -1.574 at 35.36 NS

AXIS 1

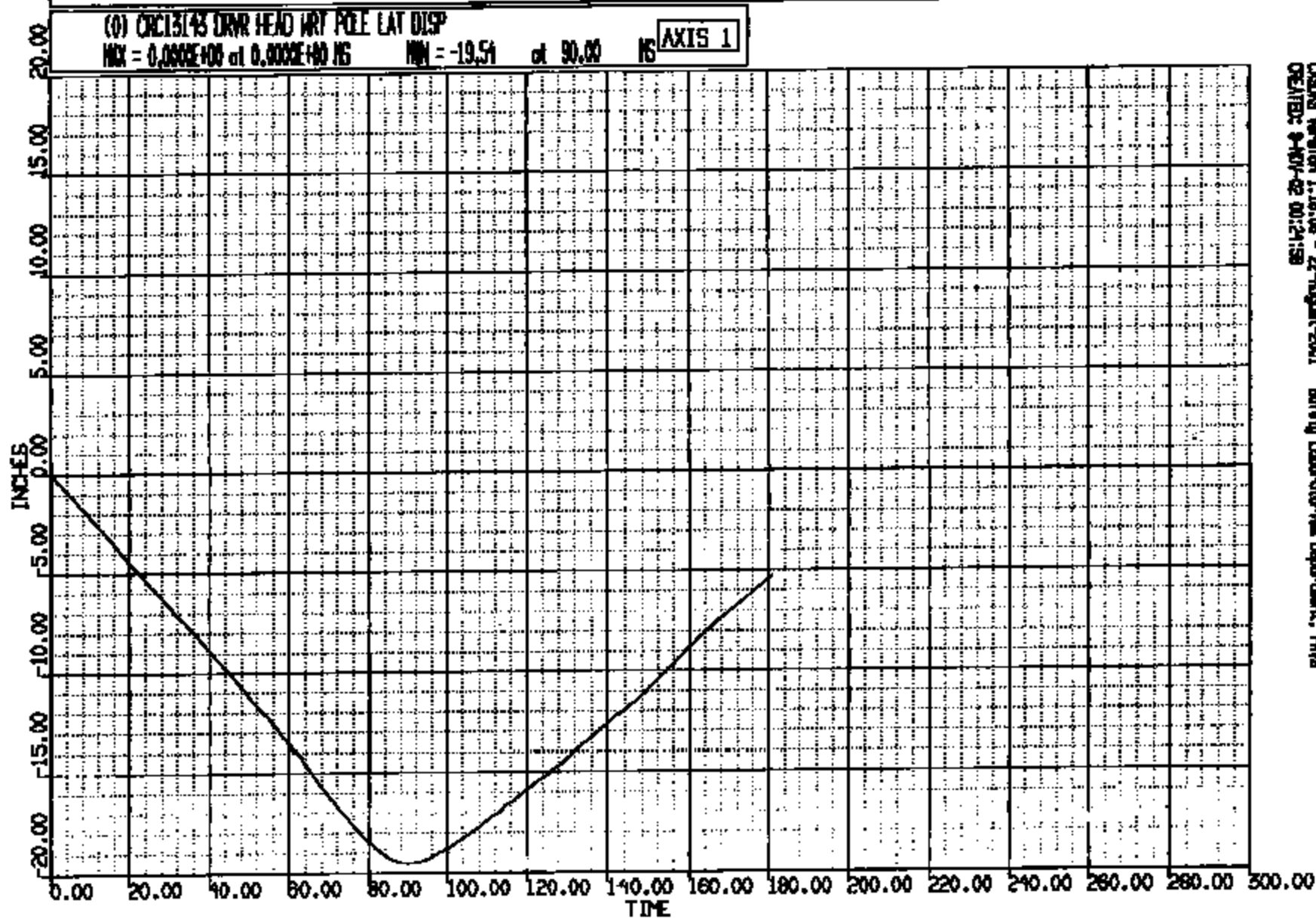


CHDS Version 1.18.00 - 22-August-2001 Safety Laboratories Department, PHB
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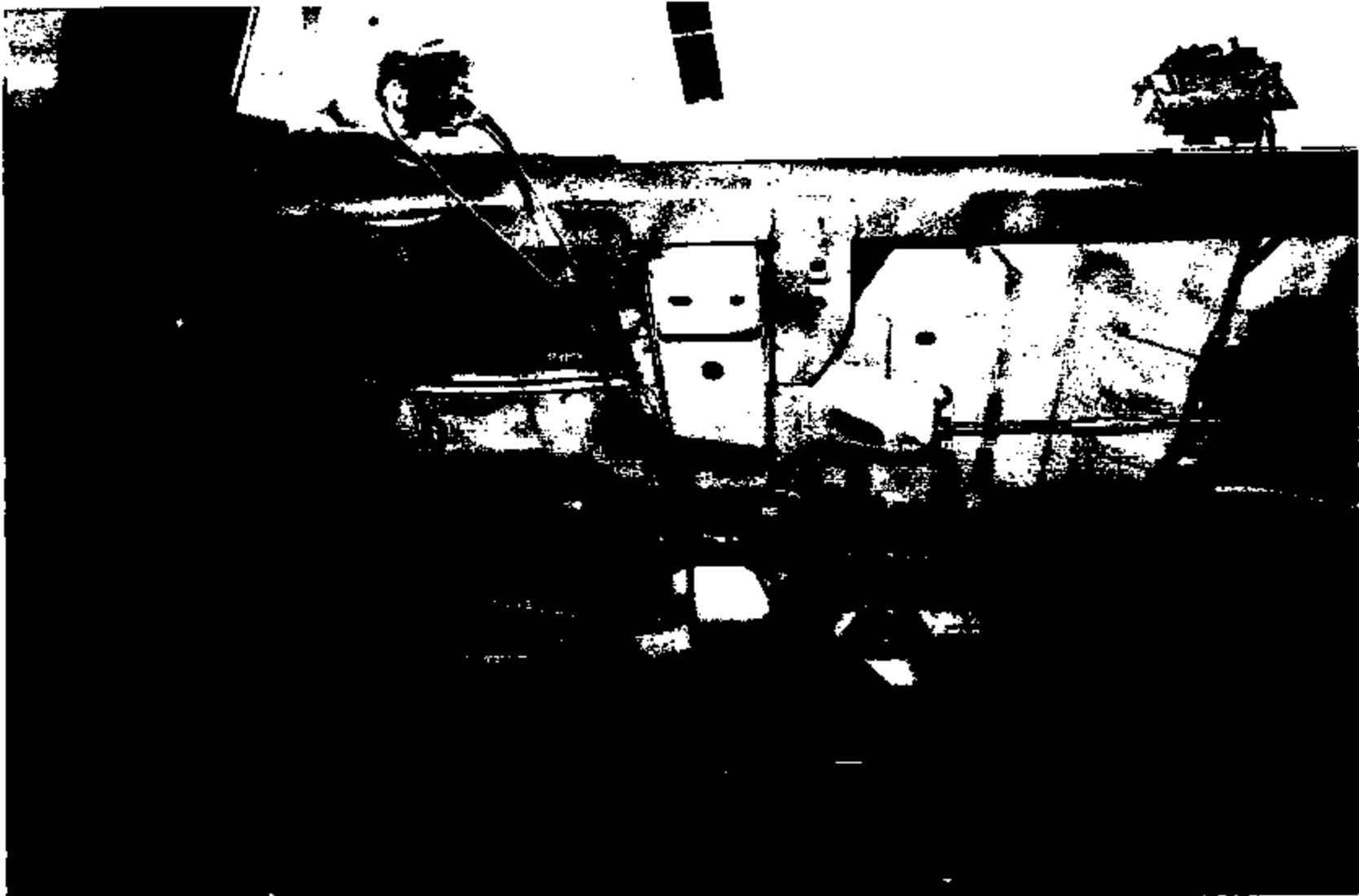


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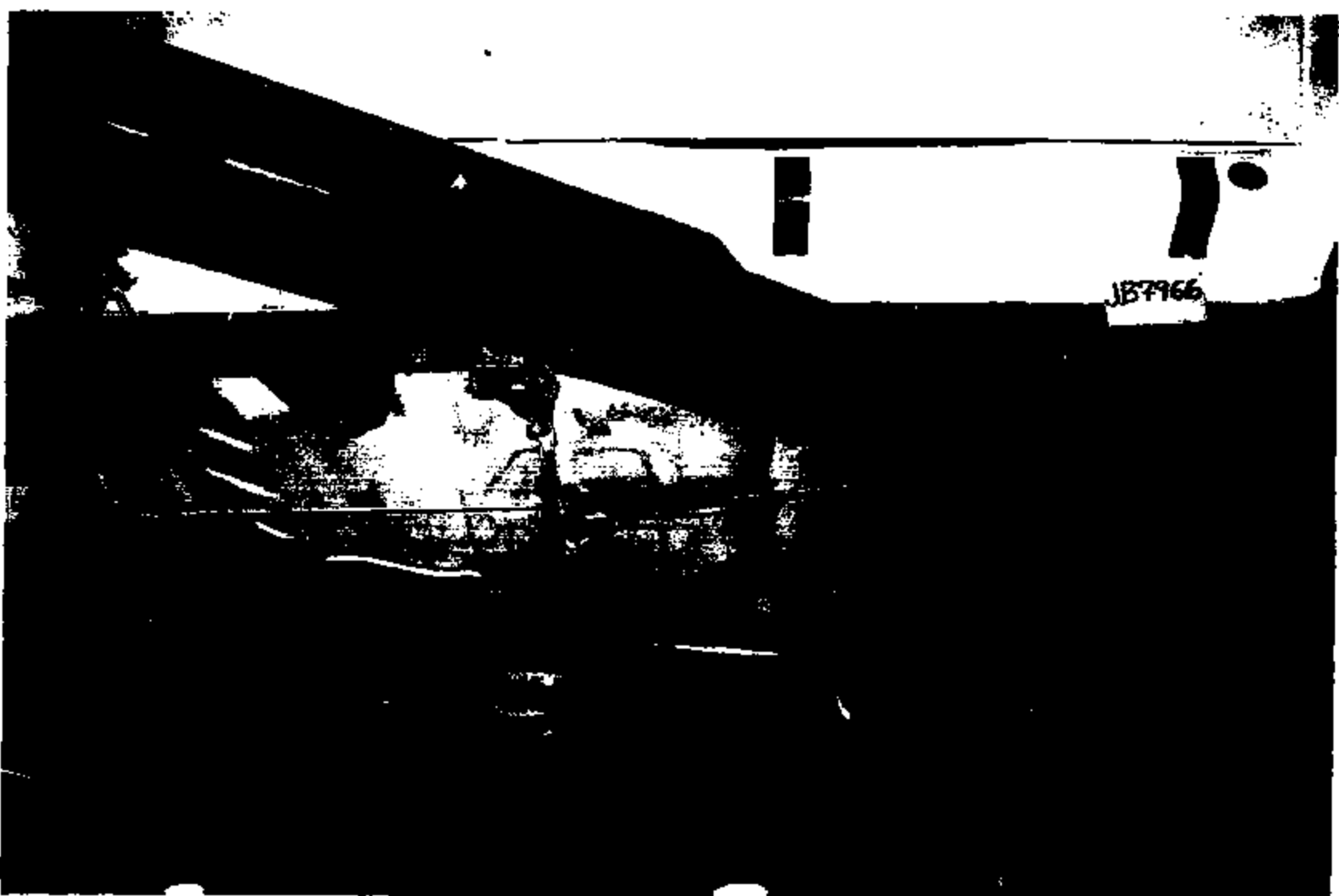
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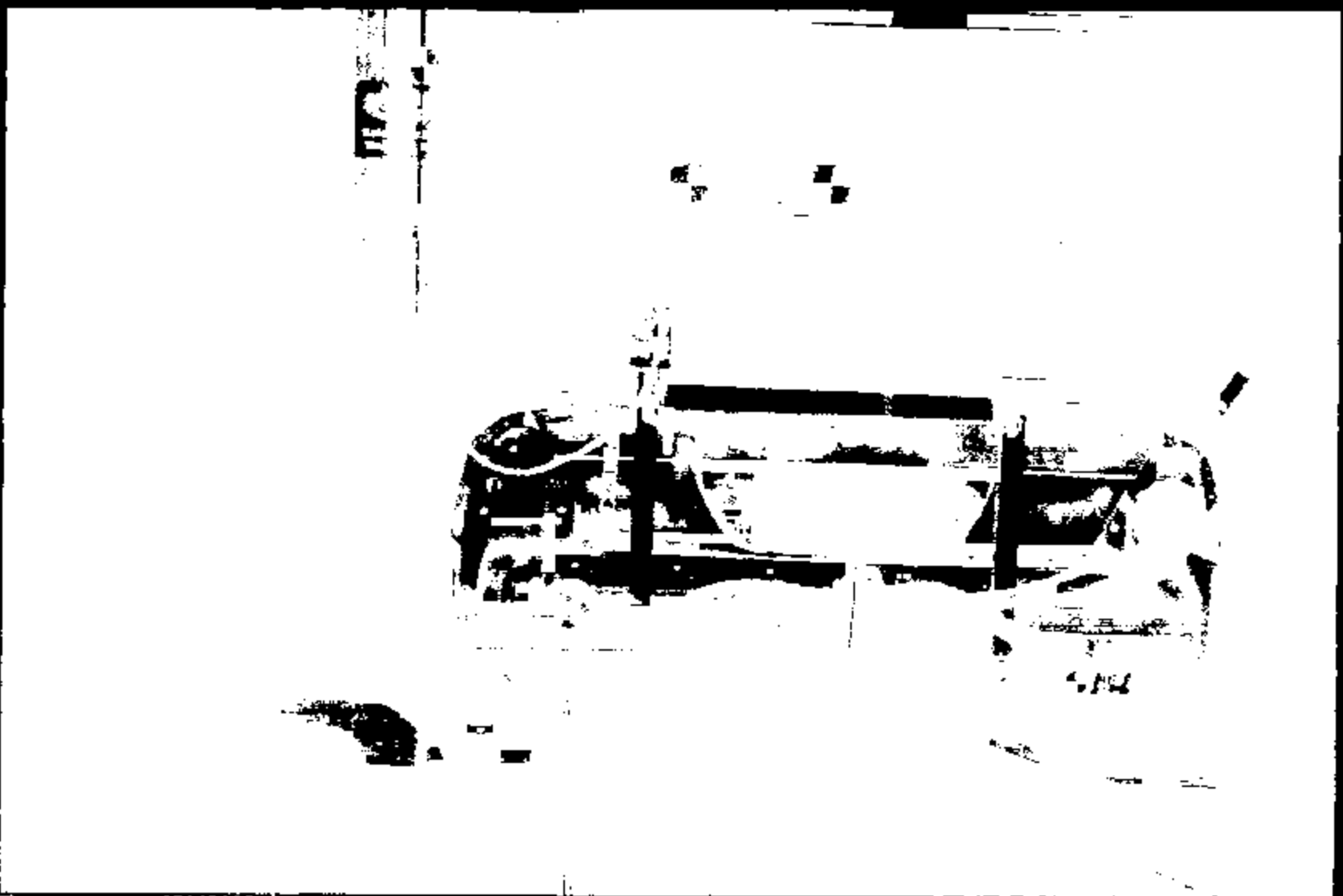


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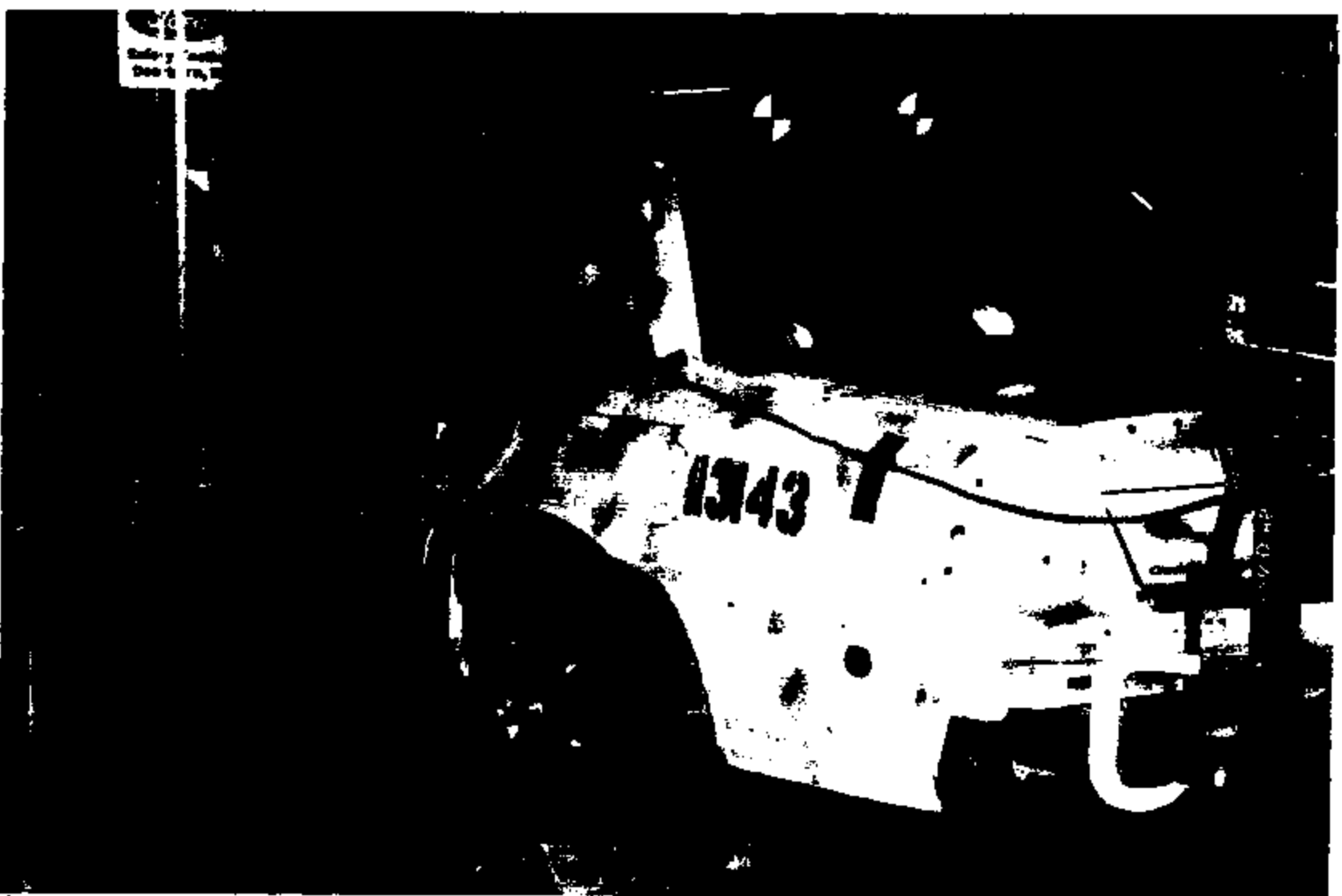


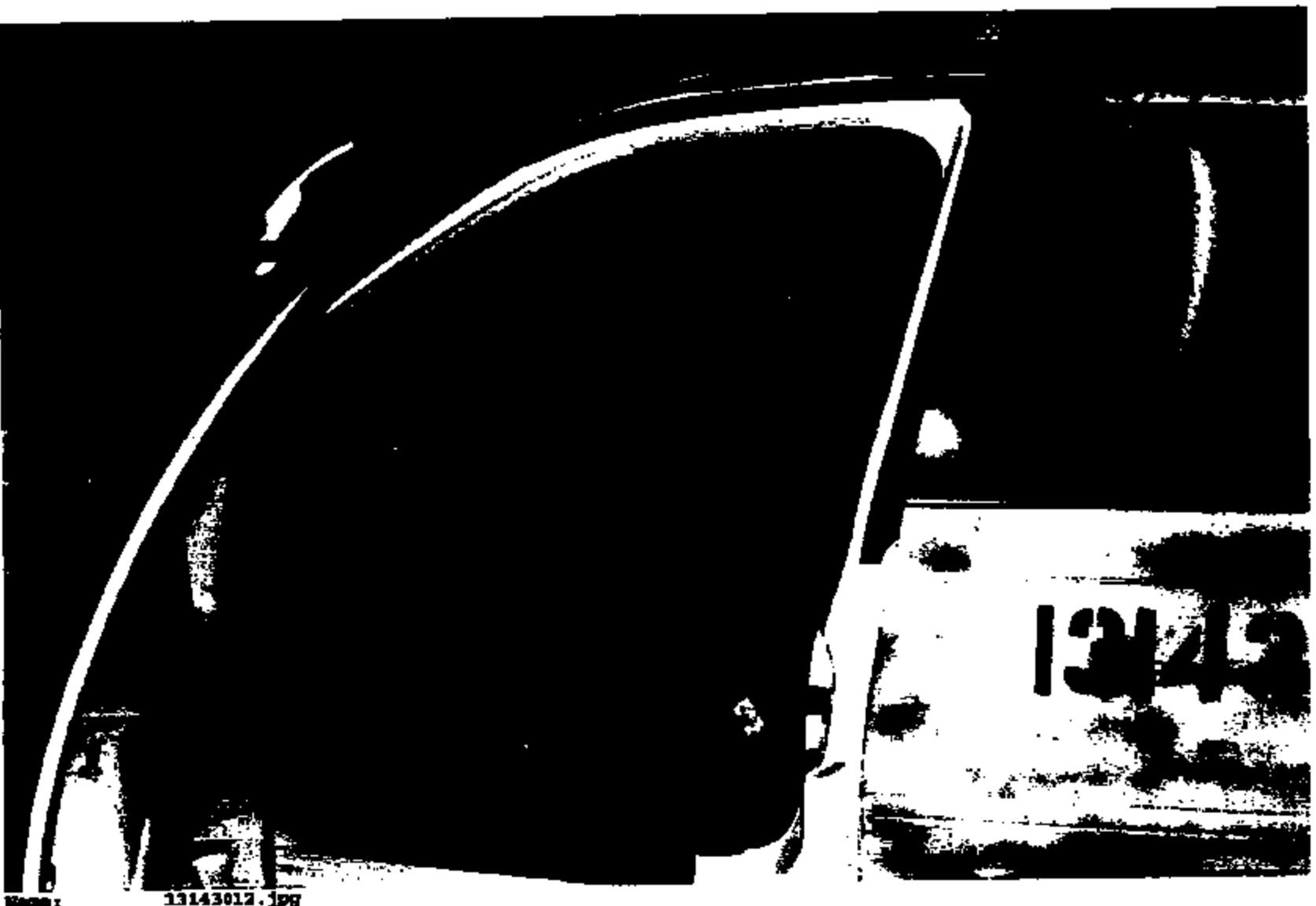
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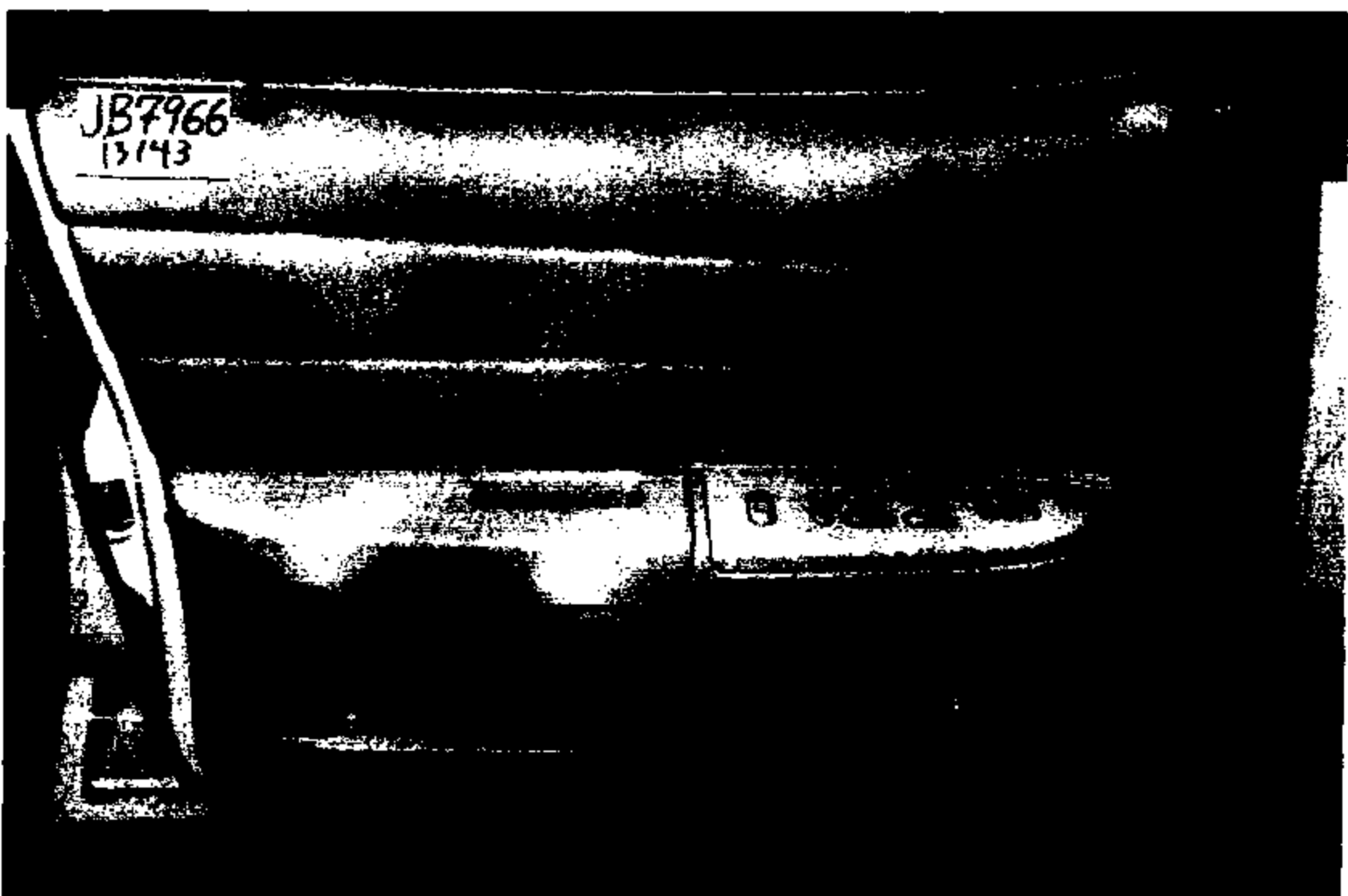
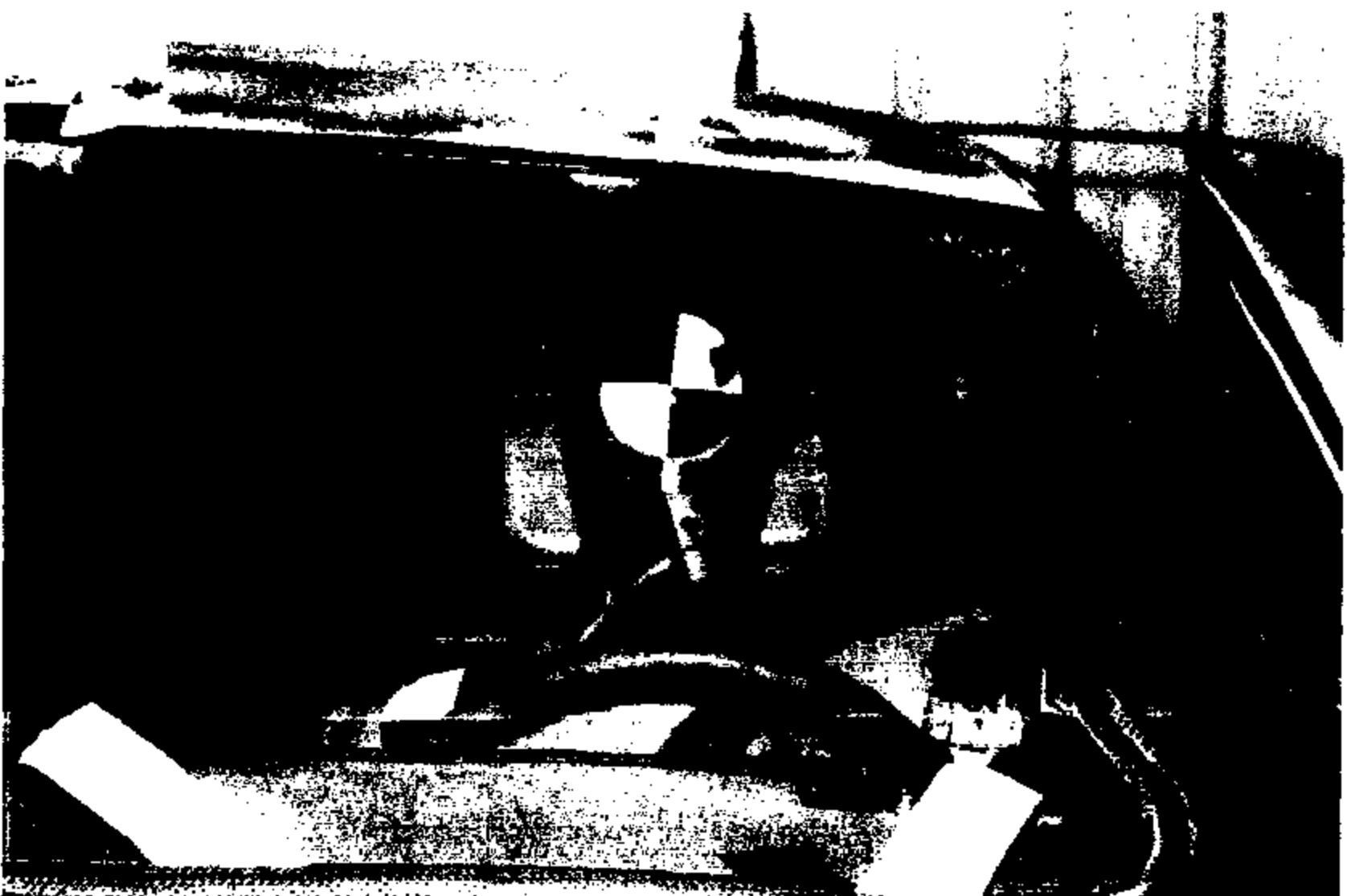


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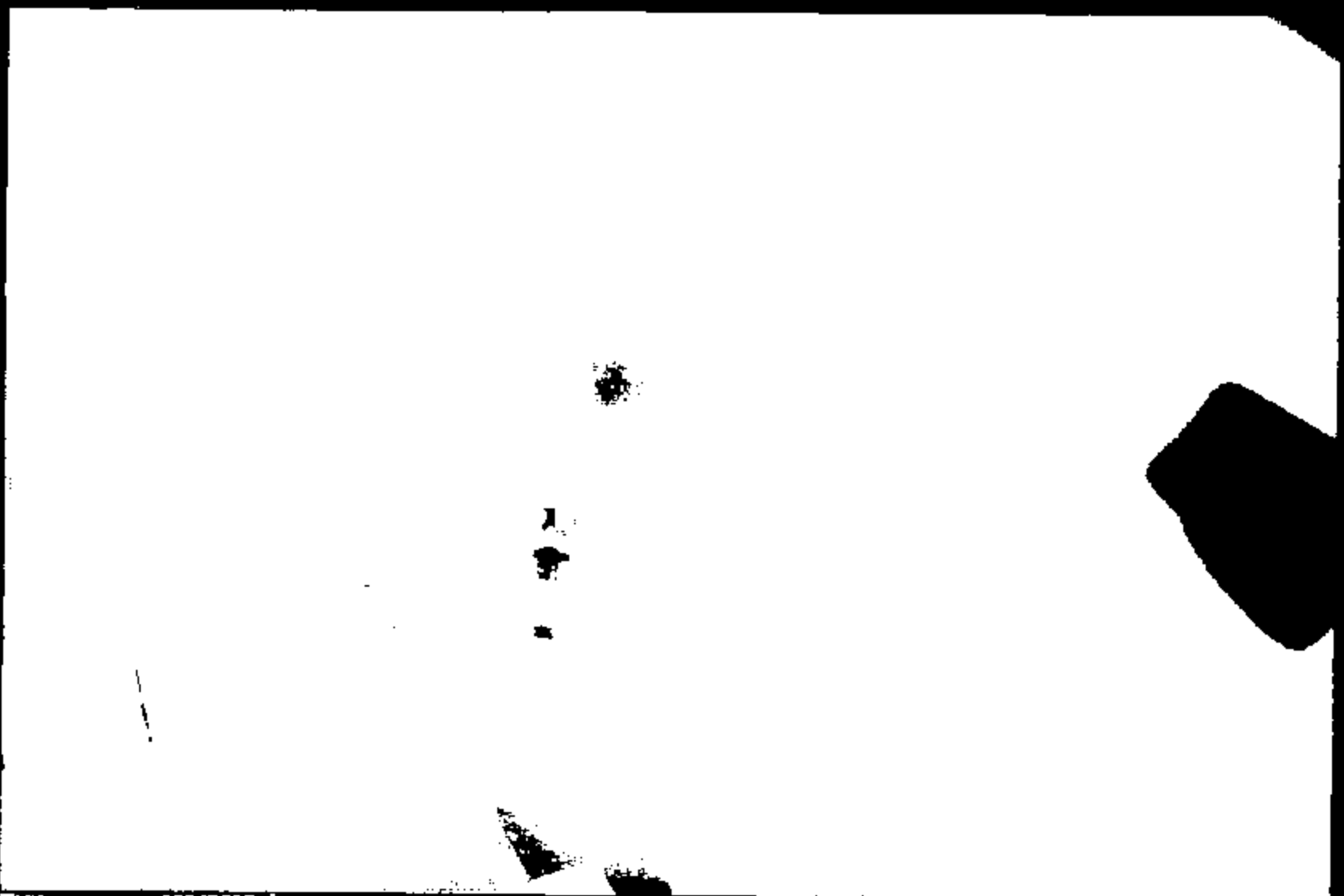
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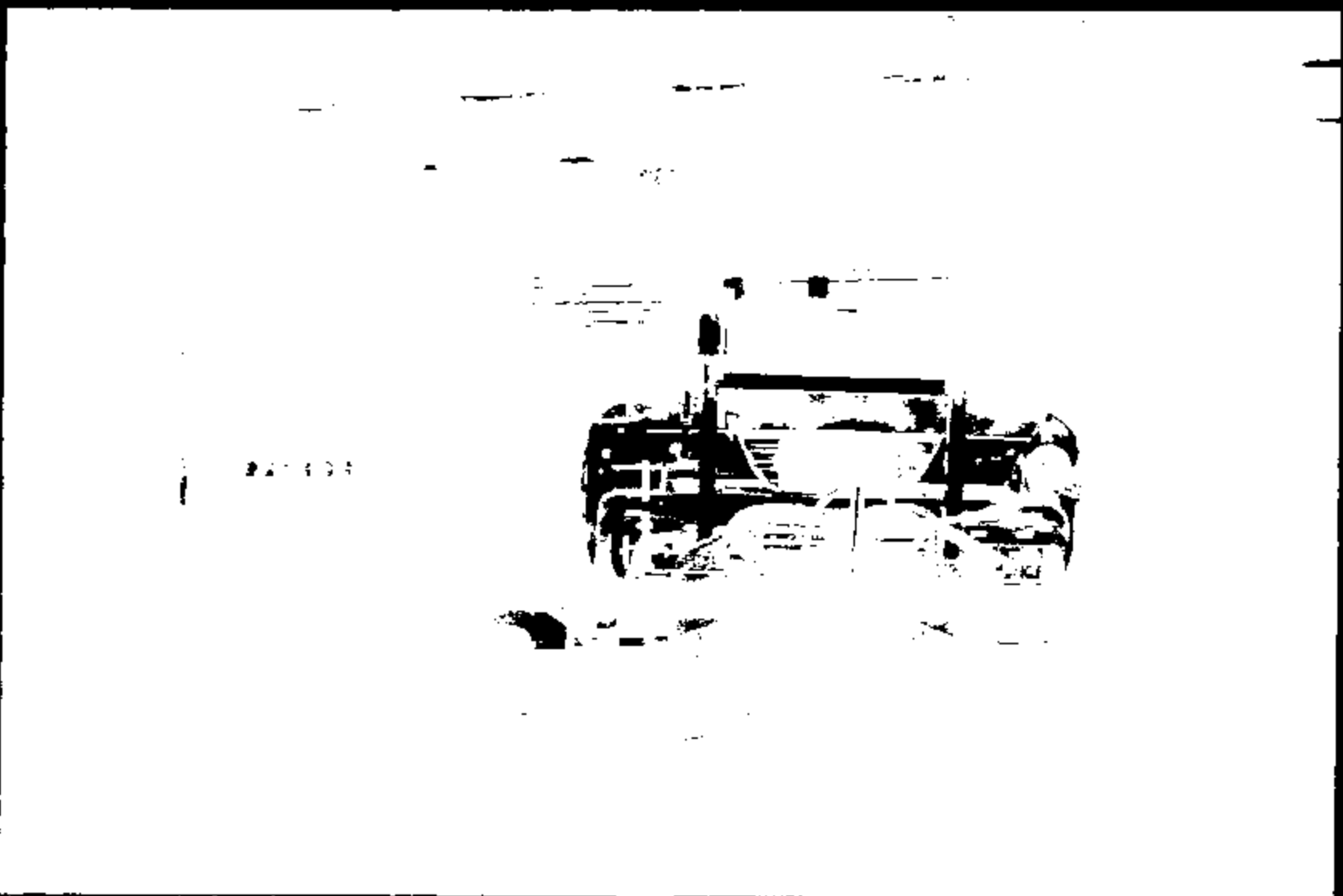
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Image 1

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Image 1

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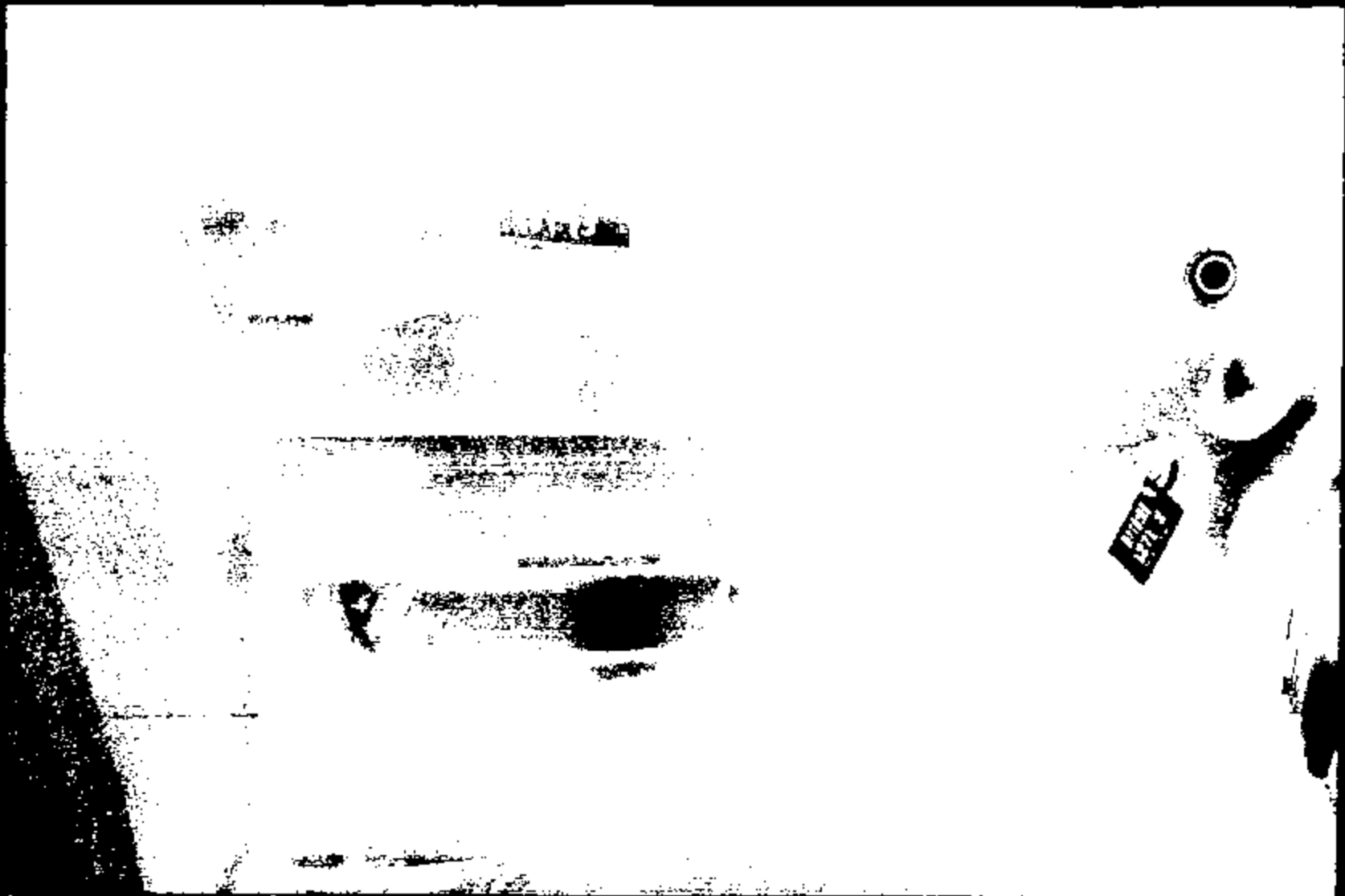


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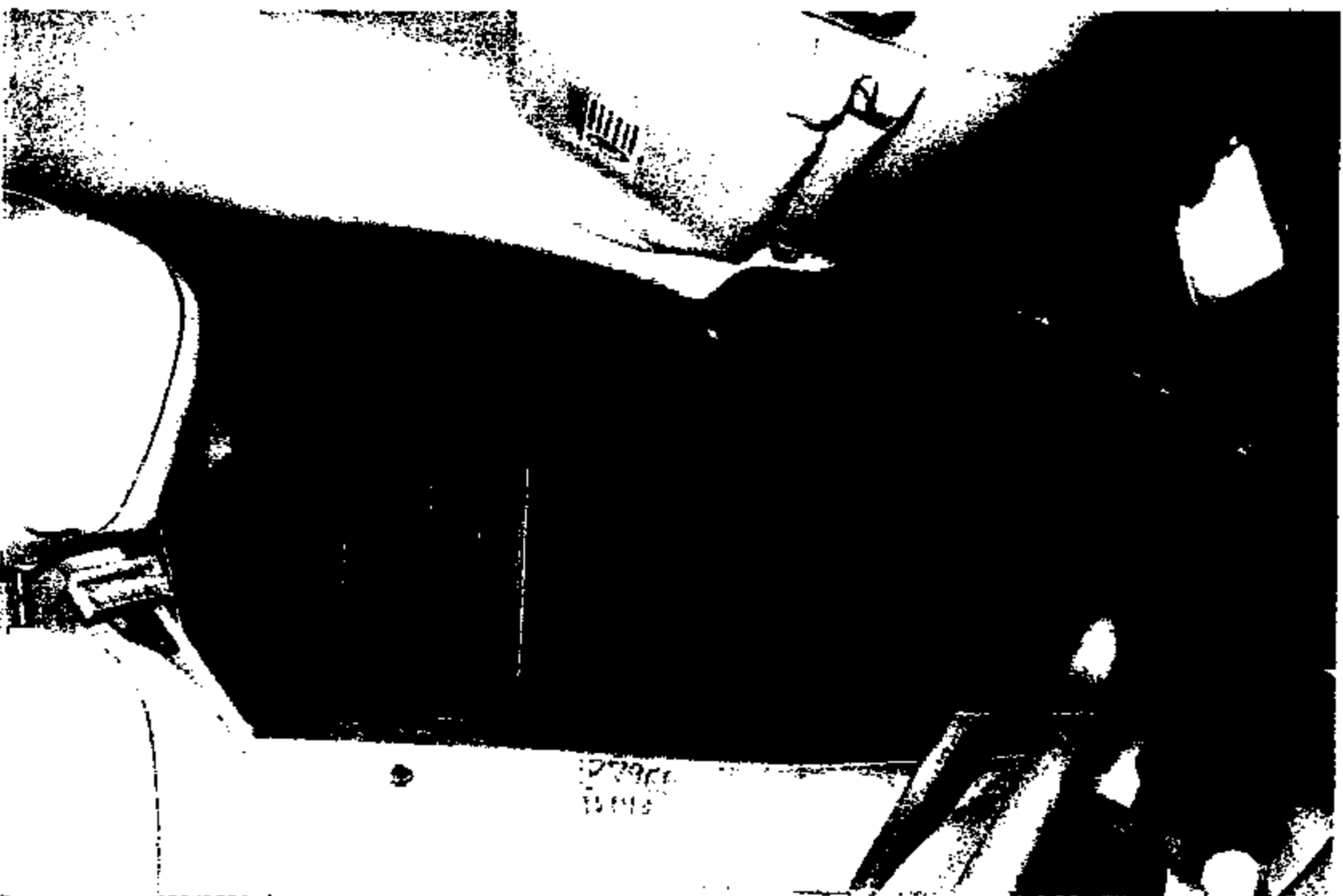
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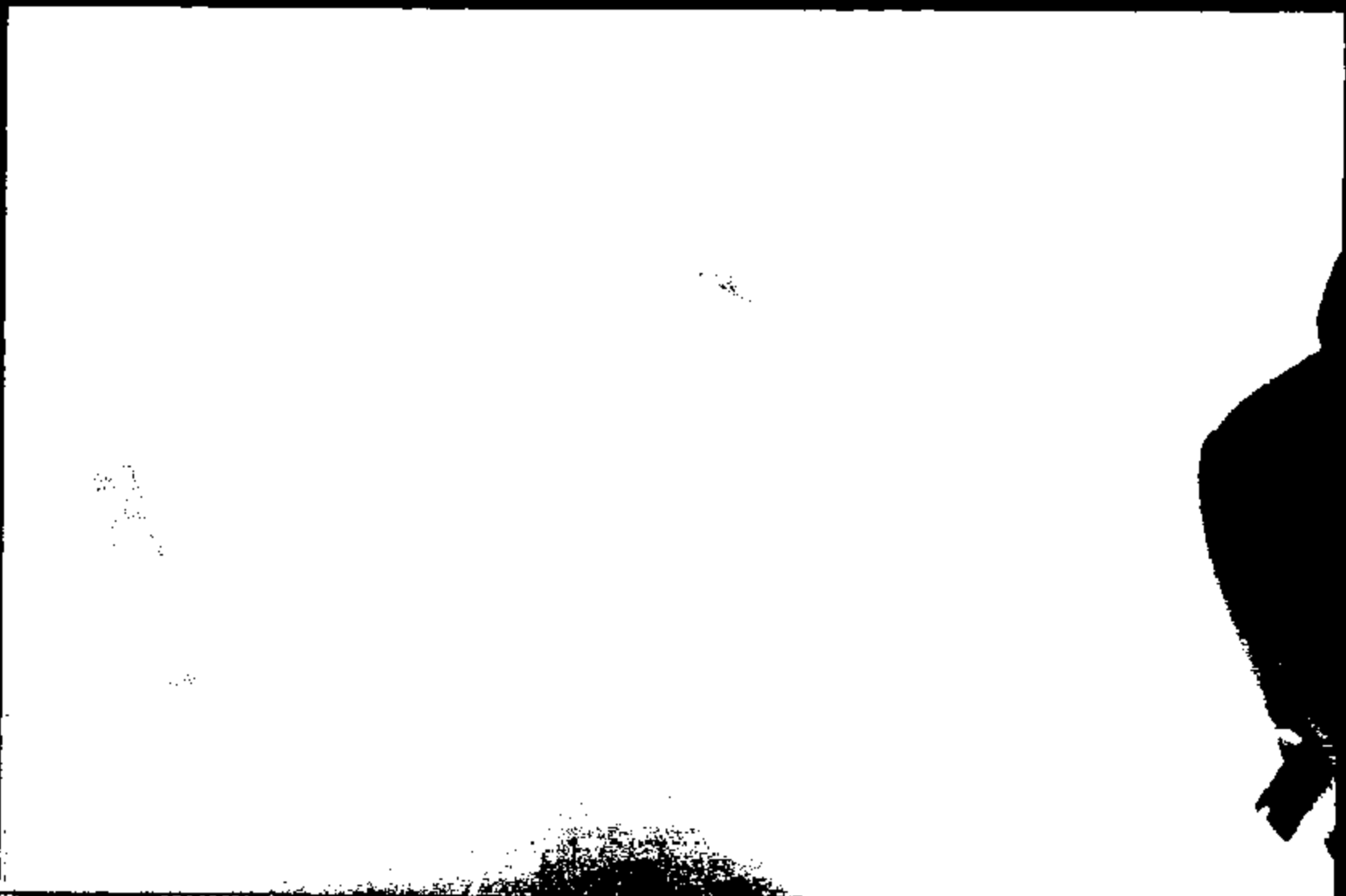


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Image 1

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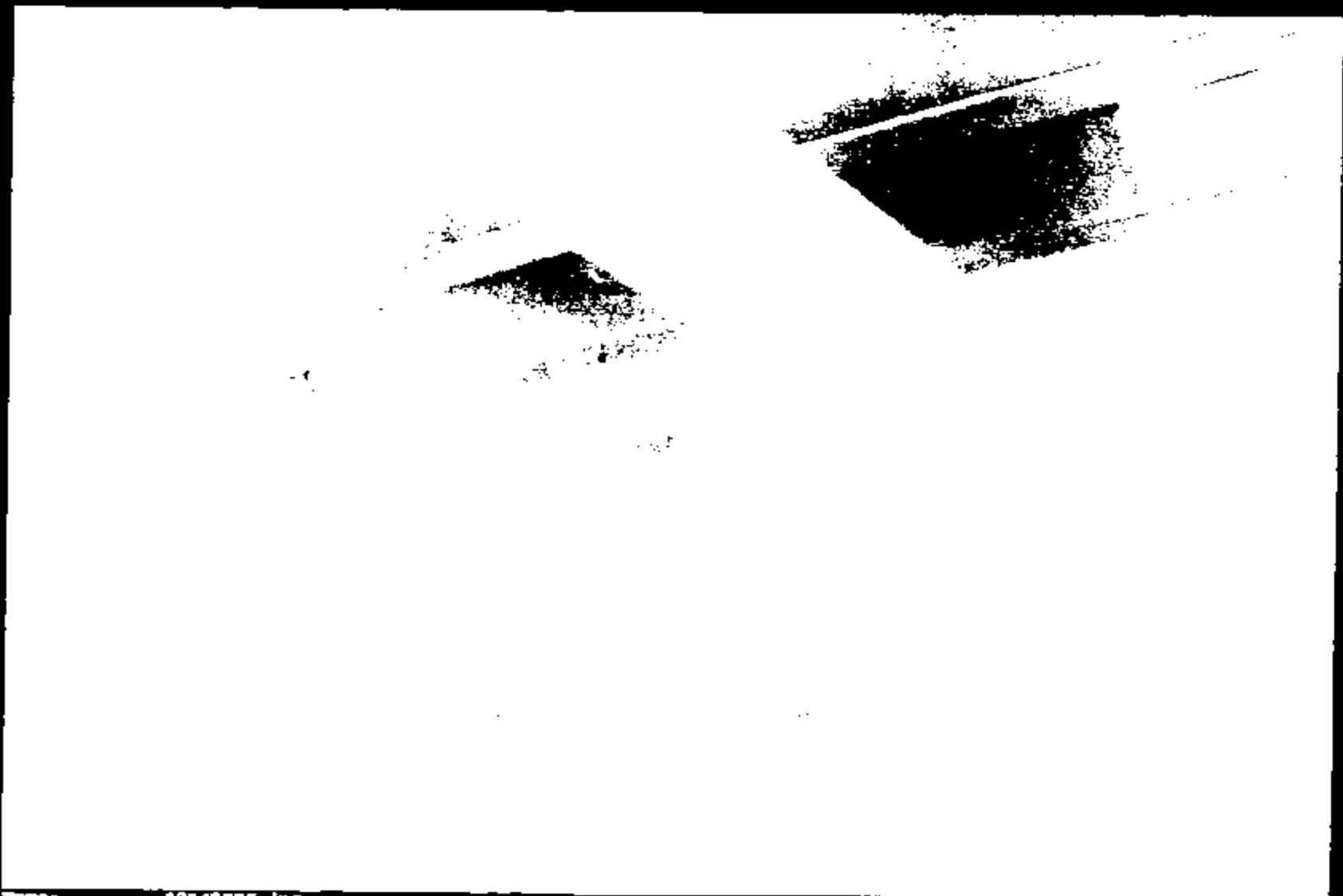


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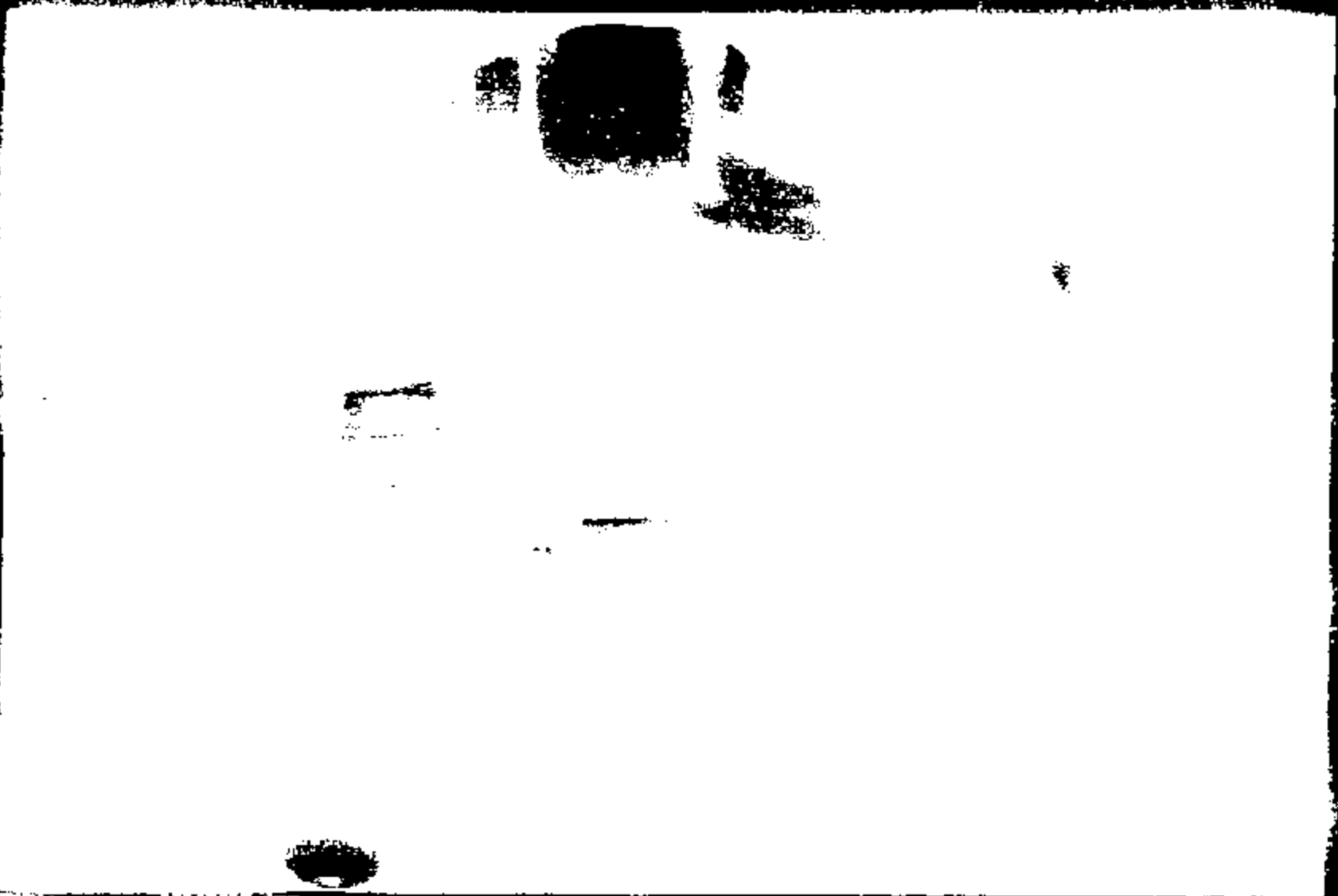


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TEST DETAIL REPORT

TA Overview						
TA No.	Facility Group Name	Program Year	Sample ID	TA Title	No. of Samples	
087506	MARKER	1987	087506	13 mph 2145 Pile (NCT) (United)	1	
Registration Page 0	Work Unit 0	Yr	Creation Date	Submission Date	Last Revised Date	Registration Date
087506	087506		08/01/2002	08/04/2002	08/27/2002	08/28/2002
Contract Information						
Sub Function	Code	Name	Phone	Mail		
MARKER	MARKER	POWELL, S. A. (Manager)	1-313-3371661	NY		
BUILD COORDINATOR	087506	Clelland, J. J. (Data)	1-313-3371661	NY		
APPROVING SUPERVISOR	087506	Stibbally, W. A. (Manager)	1-313-3371661	NY		
FIELD SUPERVISOR (NCT)	087506	Reed, D. E. (Data)	1-313-3371661	NY		

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TEST DETAIL REPORT

TA/Matrix's Overview							
U.I. No.	MMW Run #	Test Date	Facility Name	Expected Test Velocity	Crash Mode Angle	Crash Mode Impact Area	Test Type
JETSET 1			SA	15	90 degrees	Left Side Pole 1st Row	Verification
Comment		Test Breakdown VIBRO 201 Side Pole Hits (all@vms)				Test Orientation/Comments RECORD 10/10/02 JVM-002 - Head Impact - Side Airbag 008	
						B-1-2a 10/2/02	

By: J. Za
10/2/02

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TEST DETAIL REPORT

Test Matrix Comments

Film Analysis Information

Instrument Location	Object	
Impact Speed	WET BRUSH	Velocity
Dummy Head	WET VEHICLE LATERAL	Displacement, Velocity, Acceleration
Dummy Head	WET VEHICLE VERTICAL	Displacement, Velocity, Acceleration
Dummy Head	WET VEHICLE REAR/FRONT	Displacement, Velocity, Acceleration
Dummy Chest	WET VEHICLE REAR/FRONT	Displacement, Velocity, Acceleration
Vehicle	WET PILE INTRUSION (OVERHEAD)	Displacement
Dummy Head	WET PILE	Displacement, Velocity, Acceleration
Comments		

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 - 0 Copies of High Speed(100) Film on VHS
 - 0 Copies of High Speed(100) Video on VHS
 - 0 Copies of High Speed(100) Video on PDS (Format: VHS/Compact)
 - 0 Slides on CD
 - 0 Data on CD
 - 0 Digitized High Speed(100) Film on CD
 - 0 Slides Printed
- Comments

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TEST DETAIL REPORT

SA # 087946

Matrix # 1

Object/Vehicle General Information							
Test Object	Vehicle Name	Vehicle Make	Engine Description Level	Vin #	Tag #	Build #	Classical Analysis
TEST	2001	CADILLAC VICTORIA	INDUCTION	21007/0010191321	210001		10
Weight/Dimensions:							

Object/Vehicle Body Information						
Object	Vehicle Type	Body Configuration	Body Style	Dr. Of Doors	Box Type	
TEST	CAR	LEFT	DOOR ON FRAME	RIGHT		

Object/Vehicle Mechanical Information						
Object	Engine Type	Transmission Type	Drive Type	Wheel Size	Suspension Type	
TEST	4.5L 2V	4R70W	FRONT 2WD	134.7	CONVENTIONAL FRONT & REAR	
Wt. (min. max.): Front (3225/60015, 32 psi) Rear (3225/60015, 32 psi) Spare (. psi)						

Object/Vehicle Ride Height Info			
Object	Position		
TEST	Front	718 mm From WHEEL CENTER To GROUND	
	Rear	714 mm From WHEEL CENTER To GROUND	
	Height	Avg. From To	
Comments			

Object/Vehicle Fuel Information									
Object	Fuel No.	Fuel System	Capacity (gal)	Fill	Fill Amt. (gal)	Service Prev. (gal)	Temp.	Fill Press. (psi)	Comments
TEST	1	Gasoline	19	04	0				Do not fill with Standard. OR to fill with water if necessary for weight.

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TEST DETAIL REPORT

TA 8 387945
Matrix 8 1

Object/Vehicle Weight Information

Object	Curb Weight	Suggested Gross Weight	(+20% Var./ -20% Var.)	Rated Load	Gross Vehicle Weight Rating (GVWR)	Test Object Option Weight
Front		3335	(+20/-)	2514	200	33% Option Weight
Rear		2289	(+20/-)	2360		
Total		4624	(+40/-)	4874		

Options

Weight Reduction Options

Side View Mirrors

REARVIEW

FRONT VIEW

Front Bumper

Headlights

Radiator

Coolant Bottle

Washer Fluid Bottle

Air Cleaner

Alternator

Power Steering Pump

Spare Tire

Jack

Taillights

Rear Bumper

Weight Addition Options

Heavy

Instrument Panel

Front Footwell

Front Seats

2139

Front

2332

2120

2075

Rear

2269

2166

4213

421

4601

4286

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TEST DETAIL REPORT

TA # 327966
Matrix # 1

Dummy Information

Object	Area	Section	Category Name/Type
TEST	LEFT	POINT	RIS/RTI

Seat Information

Object	Area	Section	Seat Name	Seat Type	Seat Mark	Seat Mark	Seat Mark	Seat Mark	Seat Mark	Seat Mark	Seat Mark	Seat Mark
TEST	LEFT	POINT	RIS	POINT	POINT	POINT	POINT	POINT	POINT	POINT	POINT	POINT
Seat	Area	Section	Seat Name	Seat Type	Seat Mark	Seat Mark	Seat Mark	Seat Mark	Seat Mark	Seat Mark	Seat Mark	Seat Mark
Seat	Area	Section	Seat Name	Seat Type	Seat Mark	Seat Mark	Seat Mark	Seat Mark	Seat Mark	Seat Mark	Seat Mark	Seat Mark

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TEST DETAIL REPORT

TA # 007946
Matrix # 1

Squib Information

Squib Number	Squib Name	Squib	Firing Time(s)
1001/1002 RING IMPACT A1000-00000	IMPACT RING A1000	IMPACT RING A1000	IMPACT RING A1000

Hardware Information

Object	No Item Name	No Unit Code	Available Date	Part Number	Manufacturer	No Property Name	No Property Value
IMPACT	RING IMPACT A1000	00000	05/04/2002		Generic	Description	
						Comments	
						Buy Name	
						Buy Part	
						Reflector	
						Buy Volume	
						Buy Size	
						Other Material	
IMPACT		00000	01/10/2002		Generic	Description	
						Comments	
						Buy Part	
						Track	

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TEST DETAIL REPORT

TA # 087365

Matrix # 1

Instrumentation Information

Ch No.	Obj.	Area	Section	Location	Sub Location	Units	Output Type	Suggested Full Scale	Filter Type	Output Head	Output 24
1	T	LEFT	FRONT	DIRTY	HEAD C.B.	1000		100	1000W		
2	T	LEFT	FRONT	DIRTY	HEAD C.B.	1000		150	1000W		
3	T	LEFT	FRONT	DIRTY	HEAD C.B.	1000		300	1000W		
4	T	LEFT	FRONT	DIRTY	BACK UPPER	1000	1000	1000	1000W		
5	T	LEFT	FRONT	DIRTY	BACK UPPER	1000	1000	2000	1000W		
6	T	LEFT	FRONT	DIRTY	BACK UPPER	1000	1000	1500	1000W		
7	T	LEFT	FRONT	DIRTY	BACK UPPER	1000	1000	2500	1000W		
8	T	LEFT	FRONT	DIRTY	BACK UPPER	1000	1000	3500	1000W		
9	T	LEFT	FRONT	DIRTY	BACK UPPER	1000	1000	1000	1000W		
10	T	LEFT	FRONT	DIRTY	TI	1000		100	1000W		
11	T	LEFT	FRONT	DIRTY	TI	1000		150	1000W		
12	T	LEFT	FRONT	DIRTY	TI/2	1000		300	1000W		
13	T	LEFT	FRONT	DIRTY	TI/2	1000		300	1000W		
14	T	LEFT	FRONT	DIRTY	THROAT/VAL/10/100	1000		300	1000W		
15	T	LEFT	FRONT	DIRTY	THROAT/VAL/10/100	1000		300	1000W		
16	T	LEFT	FRONT	DIRTY	THROAT/VAL/10/100	1000		300	1000W		
17	T	LEFT	FRONT	DIRTY	THROAT/VAL/10/100	1000		300	1000W		
18	T	LEFT	FRONT	DIRTY	CONST. IMPEDANCE	1000		4	1000W		
19	T	LEFT	FRONT	DIRTY	TI2	1000		150	1000W		
20	T	LEFT	FRONT	DIRTY	TI2	1000		150	1000W		
21	T	LEFT	FRONT	DIRTY	TI2/100	1000		300	1000W		
22	T	LEFT	FRONT	DIRTY	TI2/100	1000		300	1000W		
23	T	LEFT	FRONT	DIRTY	VALVE	1000		100	1000W		
24	T	LEFT	FRONT	DIRTY	VALVE	1000		100	1000W		
25	T	LEFT	FRONT	DIRTY	VALVE/L	1000		200	1000W		
26	T	LEFT	FRONT	DIRTY	VALVE/R	1000		200	1000W		
27	T	LEFT	FRONT	DIRTY	HEAD	1000	SWITCH	5	1000W		
28	T	LEFT	FRONT	DIRTY	THROAT	1000	SWITCH	5	1000W		
29	T	LEFT	FRONT	DIRTY	THROAT	1000	SWITCH	5	1000W		
30	T	LEFT	FRONT	DIRTY	X-POINT	1000	SWITCH	5	1000W		
31	T	LEFT	FRONT	DIRTY	THROAT	1000	SWITCH	5	1000W		
32	T	LEFT	FRONT	DIRTY	THROAT	1000	SWITCH	5	1000W		
33	T	LEFT	FRONT	SIDE AIRBAG	SCUD	1000	VOLT	50	1000W		
34	T	LEFT	FRONT	SIDE AIRBAG	SCUD	1000	CURR	20	1000W		
35	T	LEFT	C	FTY RAD SWPT 24 51		1000		200	1000W		
36	T	LEFT	C	FTY RAD SWPT PCS 02		1000		200	1000W		

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TEST DETAIL REPORT

TA 8 287900
Matrix # 1

Instrumentation Information

Ch. No.	Obj.	Area	Section	Location	Sub Location	Scale	Mount Type	Expected Full Scale	Filter Type	Mount Mount	Mount Mt
27	T	LEFT	C	PLY HAS 200T 0105 01				1	40000		
28	T		C	THRU	0 0105 0105 0105			1	40000		
29	T		C	THRU	0 0105 0105 0105			1	40000		
30	T		C	THRU	0 0105 0105 0105	LONG		200	000		
31	T		C	THRU	0 0105 0105 0105	VERT		200	000		
32	T		C	THRU	0 0105 0105 0105	LONG		200	000		
33	T		C	THRU	0 0105 0105 0105	VERT		200	000		
34	T		C	THRU	0 0105 0105 0105	LONG		200	000		
35	T	LEFT		2-SEA IN	0 0105 0105 0105	LONG		2000	000		
36	T	LEFT		2-SEA IN	0 0105 0105 0105	VERT		2000	000		
37	T	LEFT		2-SEA IN	0 0105 0105 0105	LONG		2000	000		
38	T	LEFT		2-SEA IN	0 0105 0105 0105	VERT		2000	000		
39	T	LEFT		2-SEA IN	0 0105 0105 0105	LONG		2000	000		
40	T	LEFT		2-SEA IN	0 0105 0105 0105	VERT		2000	000		
41	T	LEFT		THRU	0 0105 0105 0105	LONG		200	000		
42	T	LEFT		THRU	0 0105 0105 0105	VERT		200	000		
43	T	LEFT		THRU	0 0105 0105 0105	LONG		200	000		
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45	T	RIGHT		2-SEA IN	0 0105 0105 0105	VERT		2000	000		
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47	T	RIGHT		2-SEA IN	0 0105 0105 0105	VERT		2000	000		
48	T	RIGHT		2-SEA IN	0 0105 0105 0105	LONG		2000	000		
49	T	LEFT		THRU	0 0105 0105 0105	LONG		2000	000		
50	T	LEFT		THRU	0 0105 0105 0105	VERT		2000	000		
51	T	LEFT		THRU	0 0105 0105 0105	LONG		2000	000		
52	T	LEFT		THRU	0 0105 0105 0105	VERT		2000	000		
53	T	LEFT		THRU	0 0105 0105 0105	LONG		2000	000		
54	T	LEFT		THRU	0 0105 0105 0105	VERT		2000	000		
55	T	LEFT		THRU	0 0105 0105 0105	LONG		2000	000		
56	T	LEFT		THRU	0 0105 0105 0105	VERT		2000	000		
57	T	LEFT		THRU	0 0105 0105 0105	LONG		2000	000		
58	T	LEFT		THRU	0 0105 0105 0105	VERT		2000	000		
59	T	LEFT		THRU	0 0105 0105 0105	LONG		2000	000		
60	T	LEFT		THRU	0 0105 0105 0105	VERT		2000	000		
61	T	LEFT		THRU	0 0105 0105 0105	LONG		2000	000		
62	T	LEFT		THRU	0 0105 0105 0105	VERT		2000	000		
63	T	LEFT		THRU	0 0105 0105 0105	LONG		2000	000		
64	T	LEFT		THRU	0 0105 0105 0105	VERT		2000	000		
65	T	LEFT		THRU	0 0105 0105 0105	LONG		2000	000		
66	T	LEFT		THRU	0 0105 0105 0105	VERT		2000	000		
67	T	LEFT		THRU	0 0105 0105 0105	LONG		2000	000		
68	T	LEFT		THRU	0 0105 0105 0105	VERT		2000	000		
69	T	LEFT		THRU	0 0105 0105 0105	LONG		2000	000		
70	T	LEFT		THRU	0 0105 0105 0105	VERT		2000	000		
71	T	RIGHT		THRU	0 0105 0105 0105	LONG		2000	000		
72	T	RIGHT		THRU	0 0105 0105 0105	VERT		2000	000		

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TEST DETAIL REPORT

TA # J87966
Matrix # 1

Instrumentation Information

Ch No.	Obj.	Area	Section	Location	Sub Location	Axis	Sensor Type	Suggested Full Scale	Filter Type	Number Used	Source ID
73	T	RIGHT		ROCKER	6 A-PILLAR	LAT		800	CON		
74	T	RIGHT		ROCKER	6 FRONT SEAT MID	LONG		400	CON		
75	T	RIGHT		ROCKER	6 FRONT SEAT MID	VERT		400	CON		
76	T	RIGHT		ROCKER	6 FRONT SEAT MID	LAT		800	CON		
77	T	RIGHT		ROCKER	6 B-PILLAR	LONG		800	CON		
78	T	RIGHT		ROCKER	6 B-PILLAR	VERT		800	CON		
79	T	RIGHT		ROCKER	6 B-PILLAR	LAT		800	CON		
80	T	RIGHT		FRAME	6 B-PILLAR	LONG		800	CON		
81	T	RIGHT		FRAME	6 B-PILLAR	VERT		800	CON		
82	T	RIGHT		FRAME	6 B-PILLAR	LAT		700	CON		

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TEST DETAIL REPORT

TA 8 JN7968
Matrix 9 1

NA Information

Object	NA Request Code	Category	NA Request Name
NA Request Details			

NA 650 Information

Object	NA 650 Code	NA 650 Code Instructions	NA 650 Code Usage Description	NA 650 Code Name
--------	-------------	--------------------------	-------------------------------	------------------

Matrix Camera Information

Camera Position	Camera Position Comments	Camera Category
Full Left View of Impact		Side Impact - Floor Coverage
Full Right View of Impact		Side Impact - Floor Coverage
Front 3/4 View of Impact		Side Impact - Floor Coverage
Rear 3/4 View of Impact		Side Impact - Floor Coverage
View of Vehicle for Velocity Determination		Side Impact - Floor Coverage
Overall View of Impacted Vehicle Side Including Pole		Side Impact - Overhead Coverage
View of Impacted Side of Vehicle with Pole		Side Impact - Pit Coverage

Matrix Custom Camera Information

Camera Position	Camera Position Comments	Usage Filenames
-----------------	--------------------------	-----------------

Object Camera Information

Object	Camera Position	Camera Position Comments	Camera Category
TEXT	Front Dummy from Opposite Window Opening		Side Impact - Outboard
TEXT	Front Dummy from Front Window (left)		Side Impact - Outboard
TEXT	Front Dummy Over Shoulder from Decklid (left)	USE MATRIX POSITION CAMERA BACK	Side Impact - Outboard
TEXT	Fiber Optics - View of Front Dummy Interaction to Tris		Side Impact - Outboard

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TEST DETAIL REPORT

TA # JS7964

Matrix # 1

Object Custom Camera Information

Object	Camera Position	Camera Position Comments	Image Filename
--------	--------------------	-----------------------------	----------------

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TEST DETAIL REPORT

TR 0 JET000
Metric 0 1

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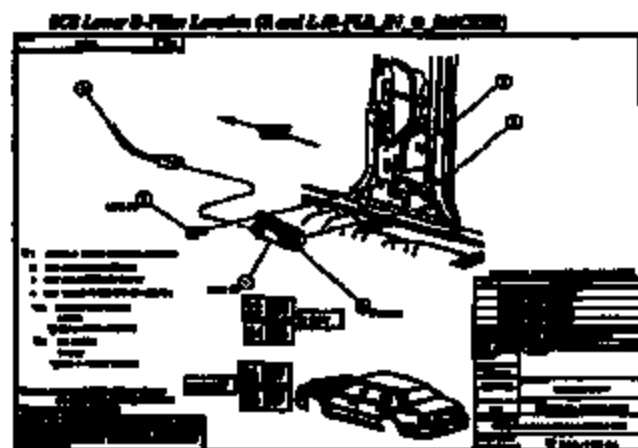
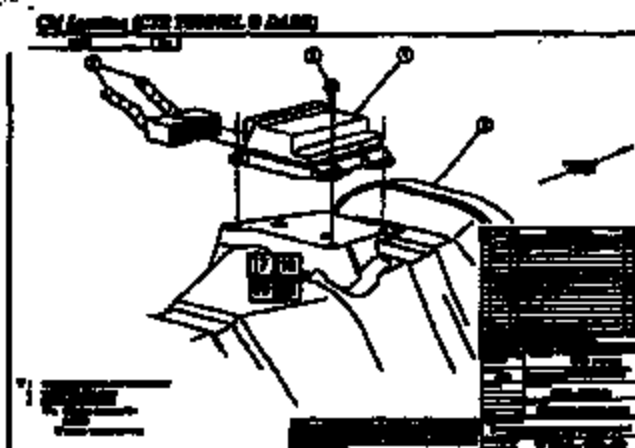
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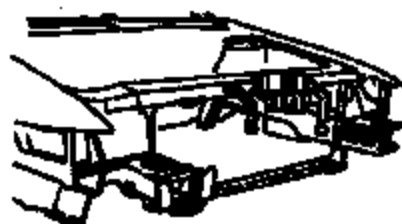
Program: BSC BRP147/PRVW
Vehicle: EX 8159886
Model: Ford Production MON
Test Mode: 13 mph 1. 1000 Pds

SENSOR MAP J7000

Engineer: DAVE REED
Phone #: 915-880-4880
Date: 05/26/00
Time: 7:40



FCB Location (FRONT BAD SUPPORT SENS)



DO NOT ZERO QDAS Channels with TAK1 - TAK21 Connected !!

Location Name	Type	Output	Resistor (ohm)	Sensor Channels only	Field #	Notes
Front Crash Sensor Harness Overlay) Must be Routed through the Engine Compartment to the Rear Chamber as the Production Mount Hardware						
1 FRONT BAD SUPPORT SW	SWD	2000				On Rail supply to FCB
2 FRONT BAD SUPPORT SW_FCB	SWD	2000				On FCB sensor
3 FRONT BAD SUPPORT SW_FCB	SWD	Volt	2.2v (w/200ohm)	N/E/V		FCB Internal and
4 FRONT BAD SUPPORT_FCB	SWD	SW				Vehicle FCB Connection (BAD Support)
17 CTR TUNNEL @ BASH_RH	SWD	2000				Star ECM
18 CTR TUNNEL @ BASH_LH	SWD	2000				Star ECM
19 CTR TUNNEL @ BASH_THIN	SWD	Volt	2.2v (w/200ohm)	N/E/V		ECM Internal and
20 CTR TUNNEL @ BASH_THIN	SWD	Volt	2.2v (w/200ohm)	N/E/V		ECM Internal and
21 L&R-PLA_R_@_ROCKERS_RH	SWD	2000				Star ECM type of 2-pole sensor as shown
22 L&R-PLA_R_@_ROCKERS_LH	SWD	LAT				On ECM
23 L&R-PLA_R_@_ROCKERS_THIN1	SWD	Volt	2.2v (w/200ohm)	N/E/V		ECM Internal and
24 L&R-PLA_R_@_ROCKERS_THIN2	SWD	NA	NO QDAS OUTPUT			MAINTENANCE - CHS
25 L&R-PLA_R_@_ROCKERS_THIN3	SWD	NA	NO QDAS OUTPUT			Vehicle ECM Connection
26 L&R-PLA_R_@_ROCKERS_THIN4	SWD	2000				Star ECM type of 2-pole sensor as shown
27 L&R-PLA_R_@_ROCKERS_THIN5	SWD	LAT				On ECM
28 L&R-PLA_R_@_ROCKERS_THIN6	SWD	Volt	2.2v (w/200ohm)	N/E/V		ECM Internal and
29 L&R-PLA_R_@_ROCKERS_THIN7	SWD	NA	NO QDAS OUTPUT			MAINTENANCE - CHS
30 L&R-PLA_R_@_ROCKERS_THIN8	SWD	NA	NO QDAS OUTPUT			Vehicle ECM Connection

Instructions for Installation

- 1) Connect all sensors to vehicle harness for power.
- 2) May have to strip back the insulation under both ends to reach roller sensor.
- 3) Connect only the SWD connection of harness supplied to the side and front crash systems. Power comes from vehicle harness.
- 4) Wire ignition wire from battery supplied to vehicle ignition and air fry. Potentially to the same circuit as the SWD power.

05/26/00

Page 1 of 1

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CRTS 0013143

Side Impact Dummy Positioning Sheet

Crash Number	13143	
T.O.	07000	
Test Date	10/20/02	
Test Mode (i.e. NHT, S14, Euro, LANCAP, etc)	LANC	
Model Year	2000	
Program Name	SM114	
Entry Location (L/R, etc)	L/R	
Dummy Serial Number	130	
Seatback Angle - Pkg Lbs (Degrees)	15.0/15.0	
Seatback Angle - Actual (Degrees)	13.7/13.7	
Dummy to Interceptor H-pt Long (+/- 0.5 inch required) (inch)	0.1	
Dummy to Interceptor H-pt Vert (+/- 0.5 inch required) (inch)	-0.2	
H-Point to Door Strike Long (inch)	7.0	
H-Point to Door Strike Vert (inch)	-4.4	
H-Point to Headrest (vertical) (inch)	22.0	
Pelvic Angle (Degrees)	22.5	
Head to Upper Steering/Headrest (shortest) (inch)	14.8	
Head C.G. to Strike Long (inch)	3.0	
Head C.G. to Strike Vert (inch)	21.5	
Head C.G. to roof side rail (shortest) (inch)	0.2	
Head C.G. to window (shortest) (inch)	18.7	
L/Head to H-Pointback (shortest) (inch)	3.7	
R/Head to H-Pointback (shortest) (inch)	3.5	
Abdomen to lower steering/instrument (horizontal) (inch)	3.0	
Pelvic centerline to Vehicle centerline (internal) (inch)	15.0	
Chest centerline to Vehicle centerline (internal) (inch)	18.0	
Seat centerline to Vehicle centerline (internal) (inch)	18.0	
Direct to H-Point (internal, starting) (inch)	3.3	
Pelvic to H-Point (internal) (inch)	7.7	
Pelvic to nearest labeled hand point (internal) (inch)		
Head Angle		
Chest Angle		
Head C.G. to H-Point Angle		
L/R Head to height (vertical to ground) (mm)		
H/R Head to height (vertical to ground) (mm)		
L/R Head to height (vertical to ground) (mm)		
H/R Head to height (vertical to ground) (mm)		
Top of Head to Top of		
Impact Mark Relative to Target Front (X) (mm)		
Impact Mark Relative to Target Front (Y) (mm)		
Impact Mark Relative to Target rear (X) (mm)		
Impact Mark Relative to Target rear (Y) (mm)		

Run Number	Channel	Channel Description	Acis	Transducer	Bridge	Cable 3	Cable 1	DAS Unit	DAS Chan	Dr	TA Number
13143	54	RIGHT/S-PLA IN 8 SOCKETS ON 823	LODS	45873	1		DCR-4	MD32027	8		JN7946
Low Channel Utilization From: -100 ms To: 500 ms Data is Good Cause: Wrong Full Scale Process Fault											
13143	55	RIGHT/S-PLA IN 8 SOCKETS ON 823	VENT	91009	1		DCR-1	MD32027	5		JN7946
Low Channel Utilization From: -100 ms To: 500 ms Data is Good Cause: Wrong Full Scale Process Fault											
13143	56	RIGHT/S-PLA IN 8 SOCKETS ON 823	LAT	51783	1		DCR-1	MD32027	7		JN7946
Low Channel Utilization From: -100 ms To: 500 ms Data is Good Cause: Wrong Full Scale Process Fault											
13143	57	RIGHT/S-PLA IN 8 SOCKETS ON 824	LAT	51728	1		DCR-2	MD32027	6		JN7946
Low Channel Utilization From: -100 ms To: 500 ms Data is Good Cause: Wrong Full Scale Process Fault											

CRIS 0013143

"RECORD COPY"Schedule No. 7-7-12Retain Until 2023**FINAL TEST REPORT****CONFIDENTIAL****Vehicle Evaluation and Verification
Research and Vehicle Technology**

TO:	B. Frank	Test Order No. J-82592 Work Task W.O. No. F20 Test Dates 10/24/02 Data Reported 4/7/03 Sheet 1 of 4
SUBJECT:	Crash Test 13207 (90° Left Side Fixed Pole Impact at 13.0 ± 0.4 mph, 20.9 ± 0.6 km/h) - 2003 Lincoln Town Car (FN-145) 4-Door Sedan	
REQUESTED BY:	Vehicle Crash Safety Department, Research and Vehicle Technology - B. Frank	
OBJECT:	To obtain development data relative to air bag system sensors.	
SUMMARY OF TEST RESULTS:	See Section 1 for air bag system sensor data.	


 R. Oda
 Engineering Technologist


 Connor J. Ng
 Section Supervisor
 Operations Engineering Section

CRTS 0013207

I-80992

C-13207

Sheet 1

VEHICLE DATA

Make and Model	2003 Lincoln Town Car (94-145) 4-Door Sedan (Attribute Prototype II)	
ID Numbers	1LMEHED4WE3Y637188, 313-EL-738	
Power Train	4.6L, EFI, Automatic (4R70W) Transmission	
Fuel Tank(s)	Usable Capacity: 19.0 gal. (71.9L) Test Condition: Filled with water for ballast.	
Front Seat(s)	Type: Bucket Cover: Leather Tracks/Position: Power/Mechanical Mild and Down Seat Backs/Position: Adjustable/34.3° Range of Vertical Head Restraints/Position: Adjustable/Up	
Restraint System	LP: 3-Point Continuous Loop Active Belt and Seat Back Side Air Bag Seatbelt remains latched during impact.	
Components	LP: SIMHybrid III Instrumented Dummy	
Test Weight	Front: 2341 lb (1153 kg) Rear: 2476 lb (1123 kg) Total: 5017 lb (2276 kg)	
Tires	Front: P225/60R17 Rear: P225/60R17 Spare: Removed	32 psi (221 kPa) 32 psi (221 kPa)
Significant Controls or Accessories	Power Steering, Tilt Steering Wheel	

CRIS 0013207

I-81392

C-13207

Sheet 3

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

The test was performed according to the following regulations, test protocols and the Corporate test procedure's:

- . Non-regulator crash test procedure, CBP-3 dated April 16, 1998.
- . FMVSS 201 Occupant Protection in Interior Impact, dated December 14, 1999.

1.1 Vehicle Alignment

The test vehicle impacted an 10 inch diameter steel pole structure, rigidly attached to the barrier face. The vertical steel pole was aligned so that the point of vehicle impact was near 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, VEV. 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 13207001 through 13207055.

CRTS 0013207

I-BR592

C-13207

Sheet 4

TEST RESULTS:**1. Occupant Protection in Interior Impact****L.H. Dummy:**

Head Injury Criteria (HIC) @ 36 ms
Interval t1
t2

34
67 ms
103 ms

Time histories of the dummy instrumentation are archived on a storage media under the crash number/and or the test authorization number.

Time histories of the dummy dynamic displacements obtained from Film Analysis are not archived on a storage media under the crash number/and or the test authorization number due to the dummy head was not targeted and the dummy chest was not visible below the steering wheel and instrument panel.

Time histories of the air bag/sensor(s) are archived on a storage media under the crash number/and or the test authorization number.

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. Vehicle Displacement and Instrumentation Data

Time histories of the vehicle accelerations and other instrumentation are archived on a storage media under the crash number/and or the test authorization number.

Time histories of the vehicle dynamic displacements obtained from Film Analysis are archived on a storage media under the crash number/and or the test authorization number.

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

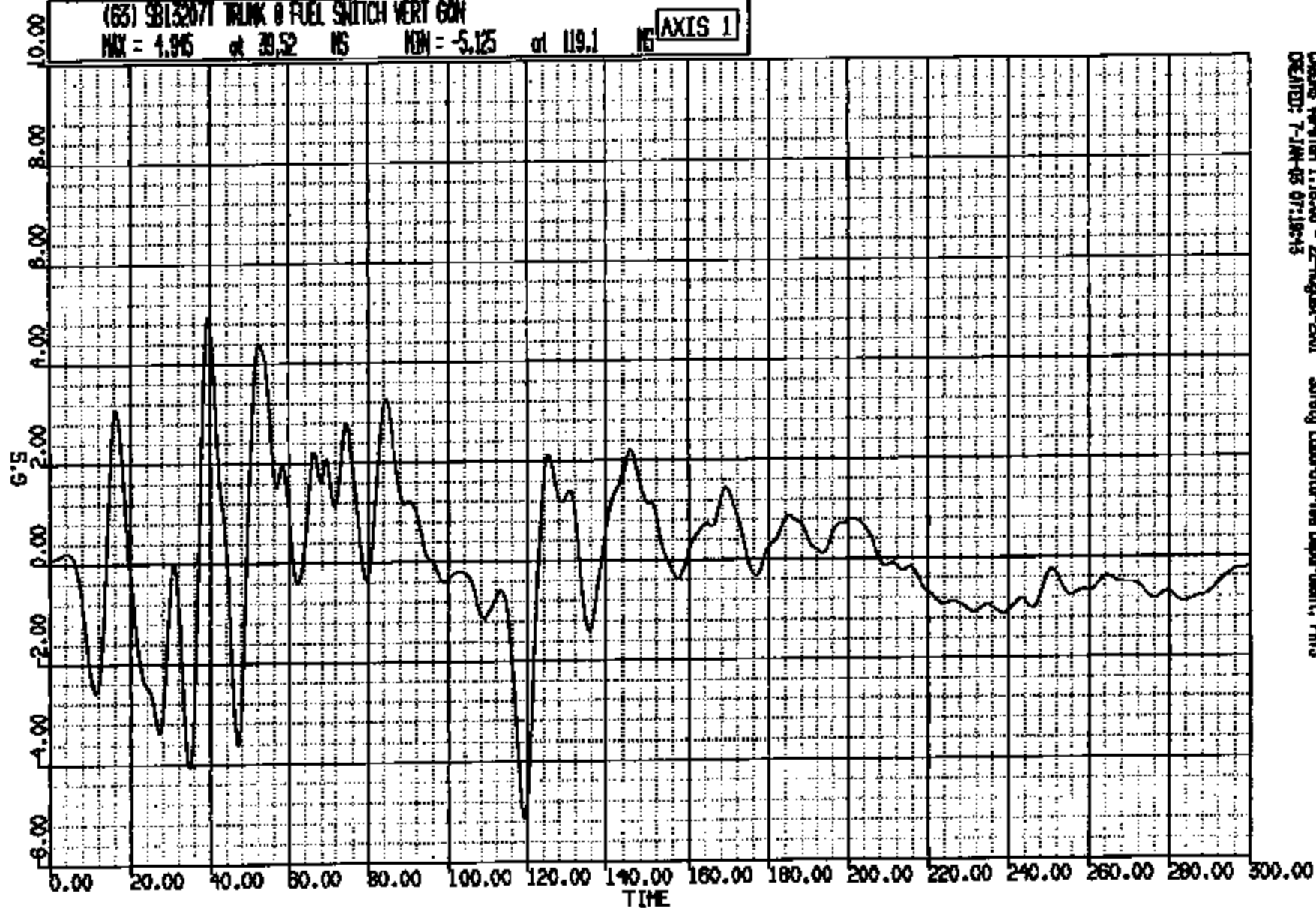
Time histories of any requested derived data (i.e. integrations, etc.) were given to the requesting activity and are not included in this report.

CRTS 0013207

BB R: 15207 TO: J58392 DATE: 24-OCT-2002 08:53:40
2005 FN145

(63) SB132071 TRUNK & FUEL SWITCH VERT GUN

MAX = 4.945 at 39.52 NS MIN = -5.125 at 119.1 NS



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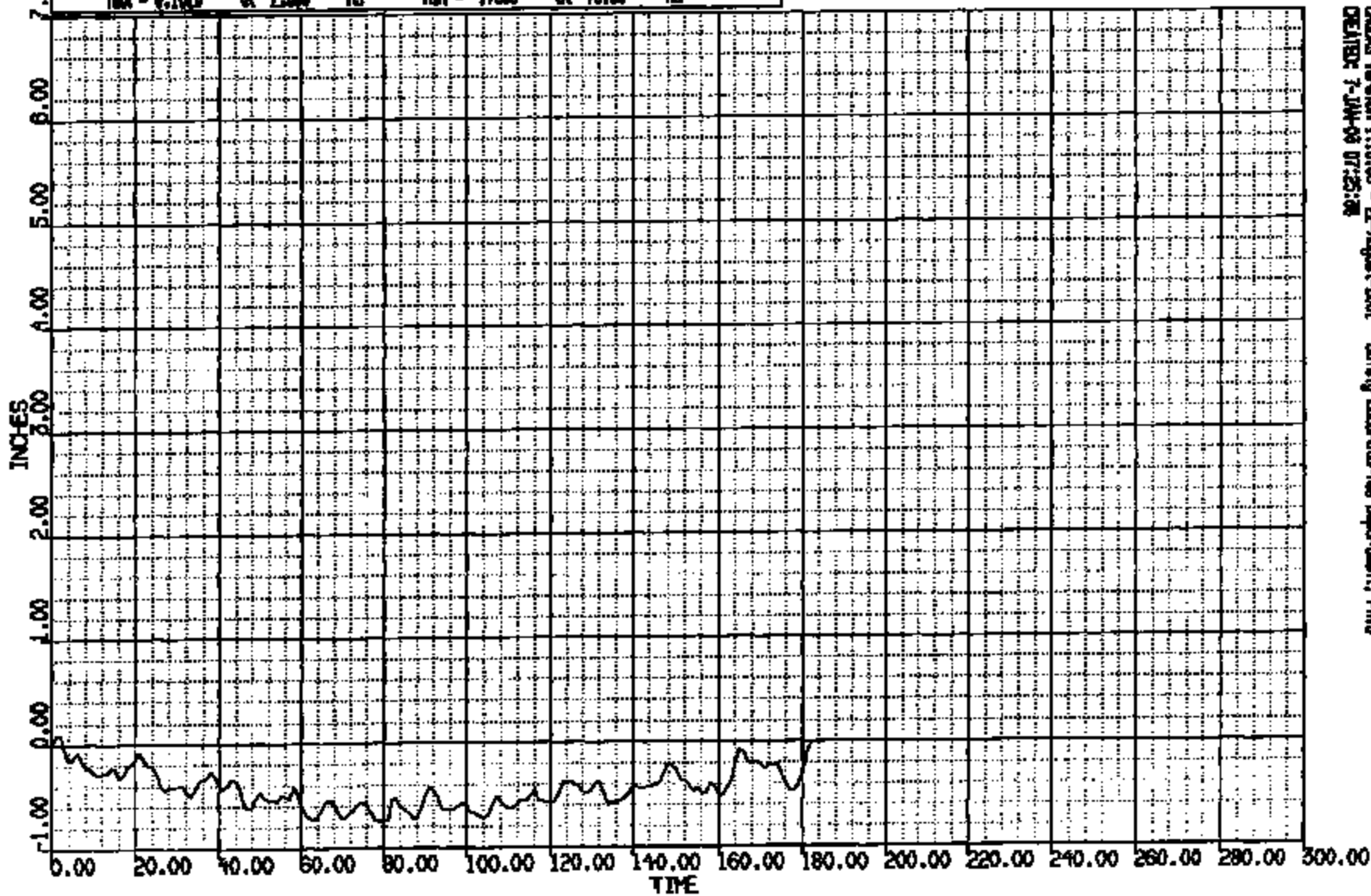
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SB R: 13207 TO: J88892 DATE: 21-OCT-2002 08:53:40
2003 FN145

(0) CR13207 RS ROOF AT 8 PLR WRT TOP OF POL LONG DISP

MAX = 0.1020 at 2.000 RS MIN = -.7500 at 79.00 RS

AXIS 1



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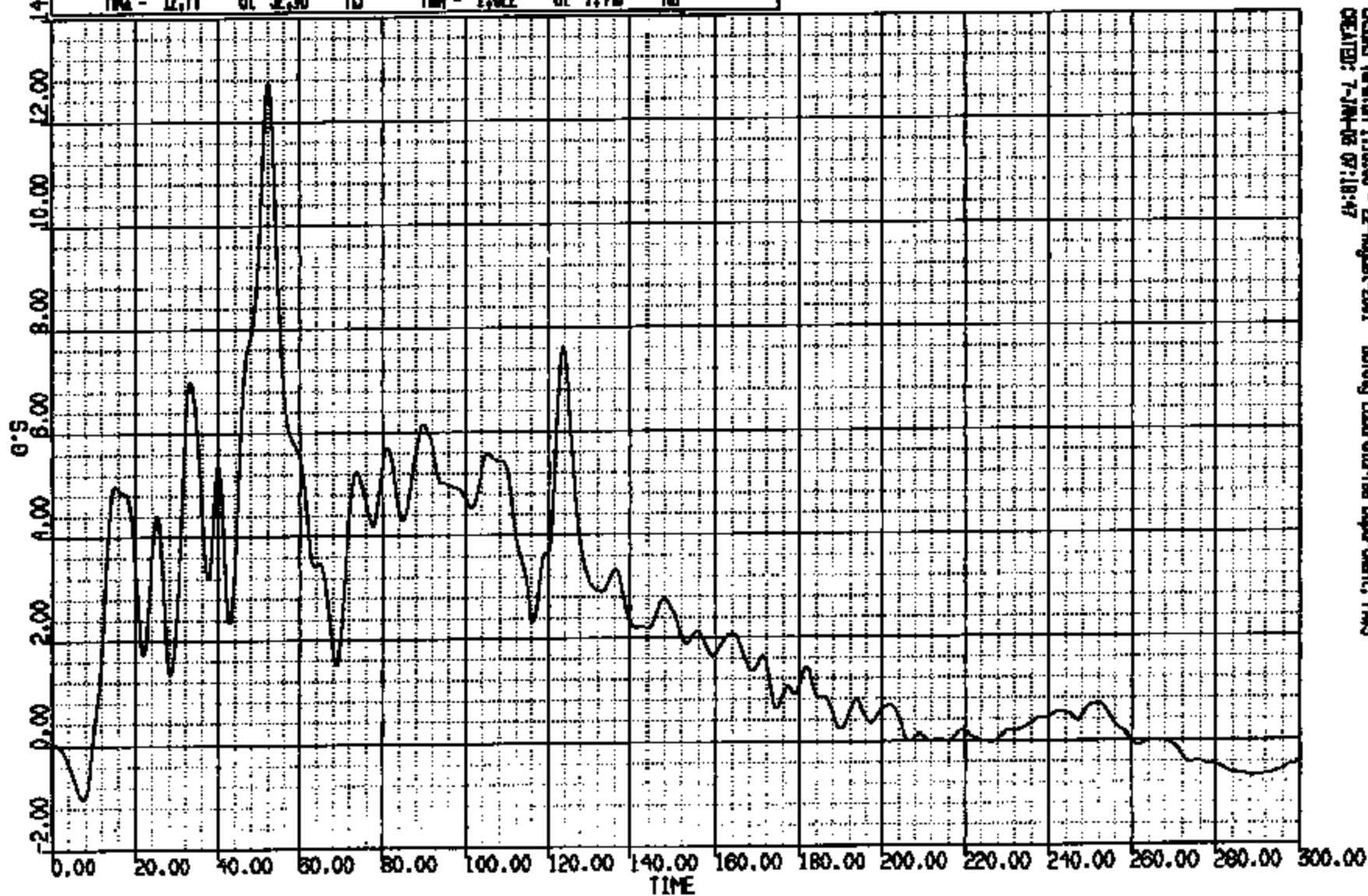
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SE R: 13307 TO: J88592 DATE: 24-OCT-2002 08:53:40
2003 FN145

(56) S013207T CAL TNL @ DASH RCH #18 LAT 60N

MAX = 12.77 at 52.96 NS MIN = -1.022 at 7.410 NS

AXIS 1



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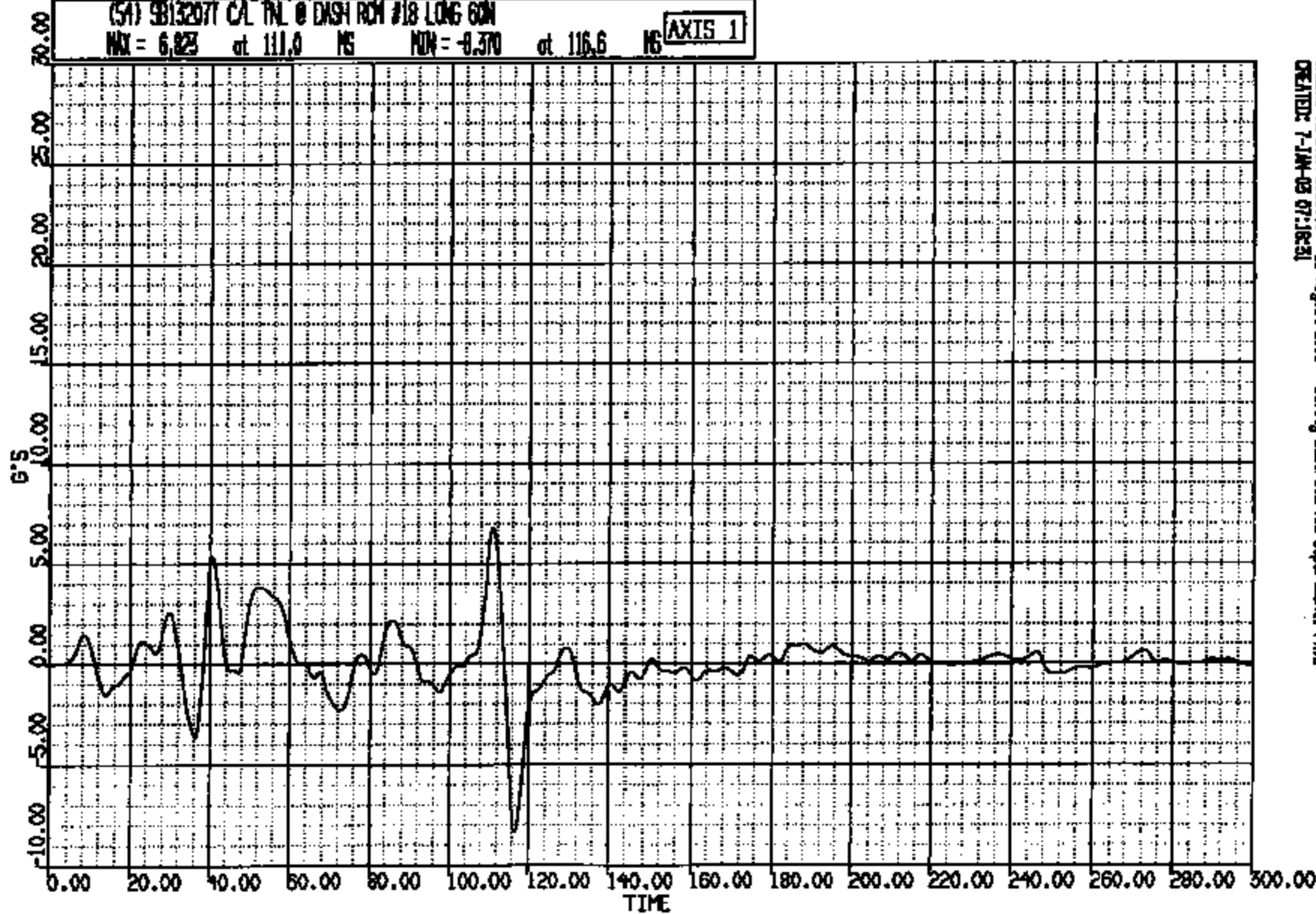
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SB R: 13207 TO: J88592 DATE: 24-OCT-2002 08:53:40
2008 FN145

(54) SB132077 CAL TNL @ DASH ROM #18 LONG 60N

MAX = 6.823 at 111.0 MS MIN = -8.370 at 116.6 MS

AXIS 1



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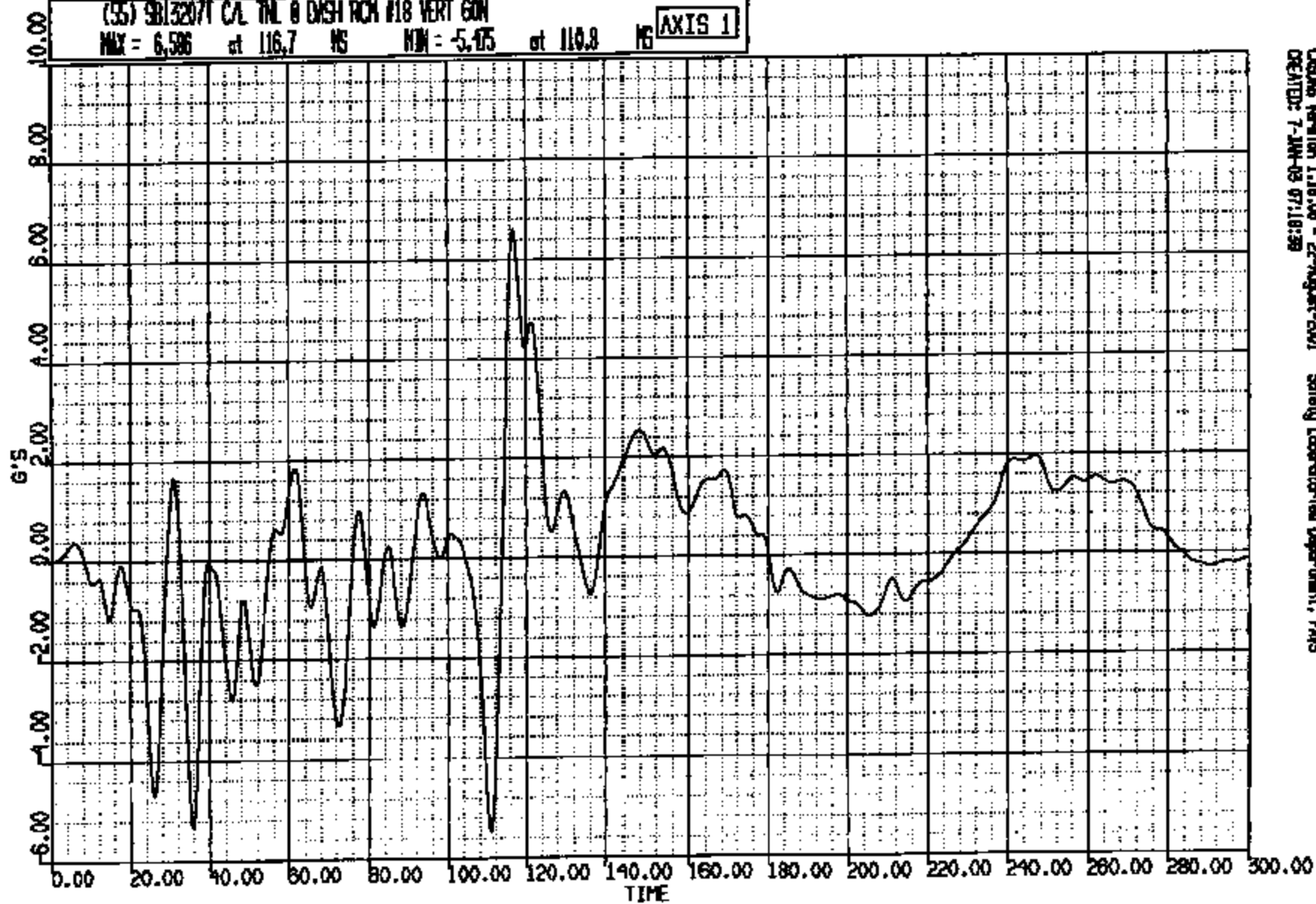
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BB R: 13207 TO: J28592 DATE: 24-OCT-2002 08:53:40
2008 FN146

(55) 9813207 C/L TNL 8 DASH RCM #18 VERT GON

MAX = 6.586 at 116.7 MS MIN = -5.475 at 110.8 MS

AXIS 1



CSGMS Version 1.18.06 - 22-August-2001 Safety Laboratories Department, PMS
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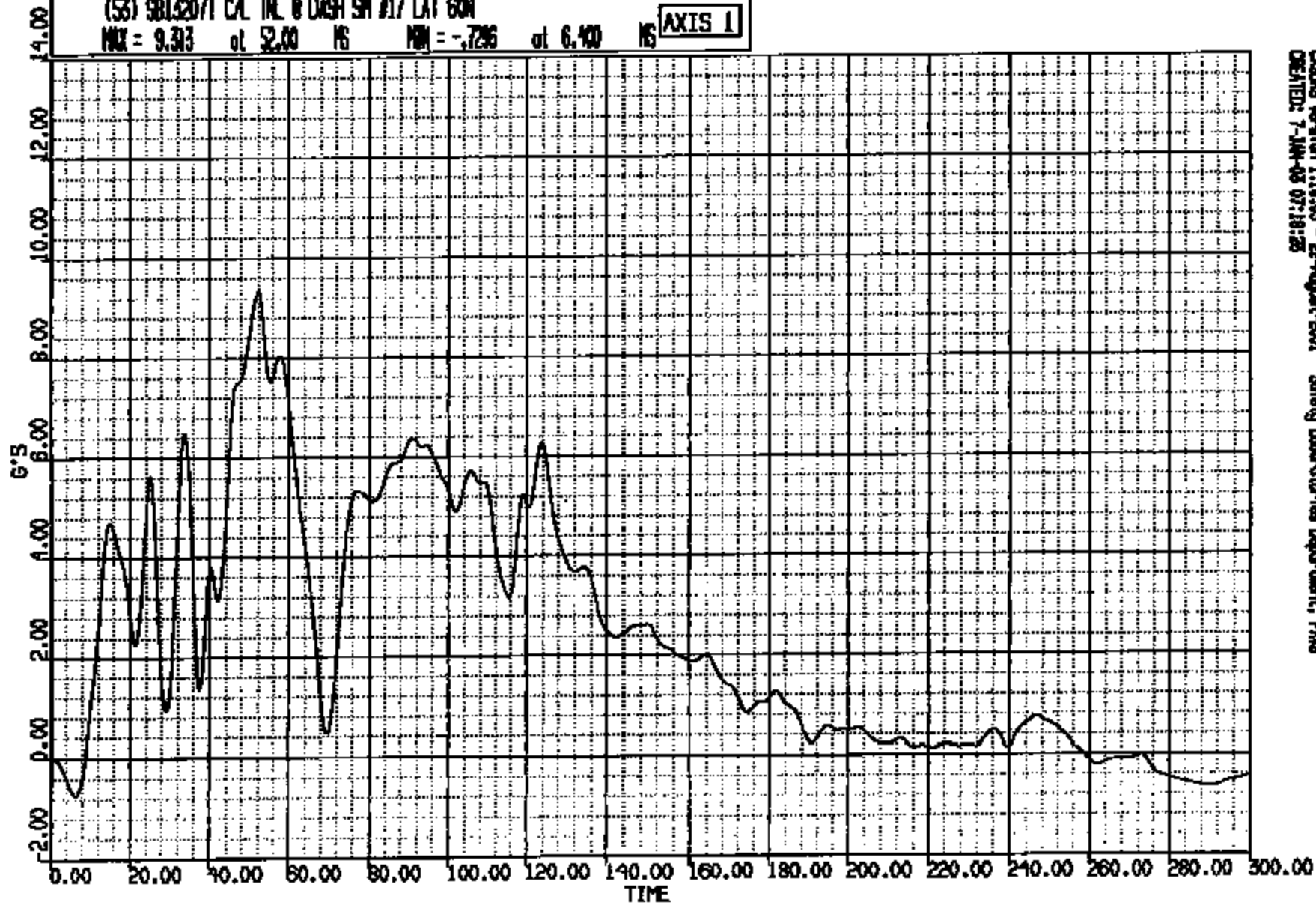
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SS R: 15207 TO: J88592 DATE: 24-OCT-2002 08:53:40
2005 FN145

(53) 58132071 CAL TNL @ DASH SN #17 LAT 60N

MAX = 9.393 at 52.00 NS MIN = -7.296 at 6.400 NS

AXIS 1



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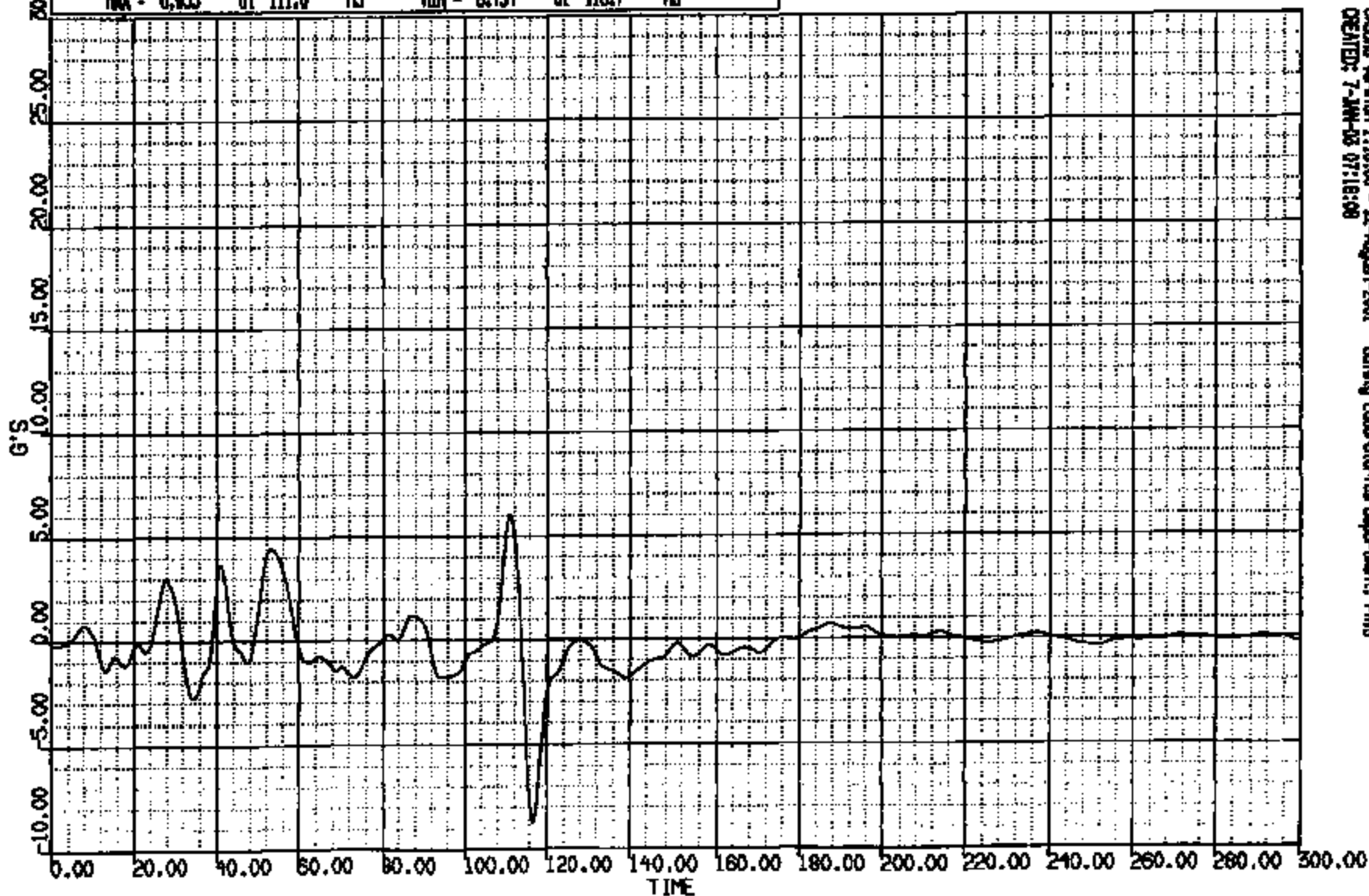
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SB R: 13207 TO: JB8592 DATE: 24-OCT-2002 08:58:40
2003 FN145

(51) SB132071 CAL TNL @ DASH SN #17 LONG GON

MAX = 6.455 at 111.0 MS MIN = -8.754 at 116.7 MS

AXIS 1



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Safety Laboratories Department, PHS

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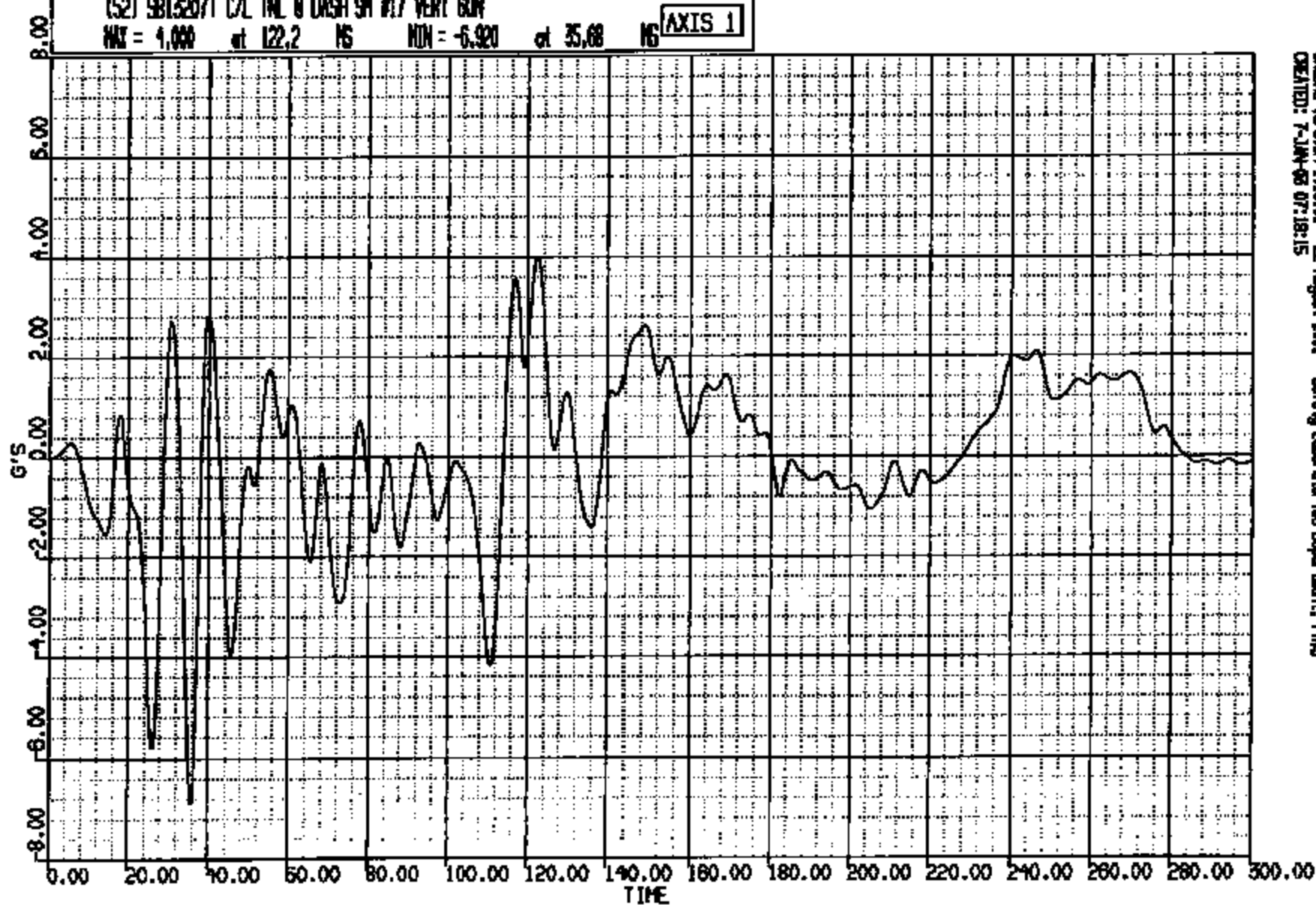
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22 R: 13207 TO: JB0502 DATE: 24-OCT-2002 08:52:40
2005 FN145

(52) SBL3207T C/L TNL 0 DASH 9M #17 VERY 60N

MAX = 4.000 at 122.2 MS MIN = -6.920 at 35.68 MS

AXIS 1



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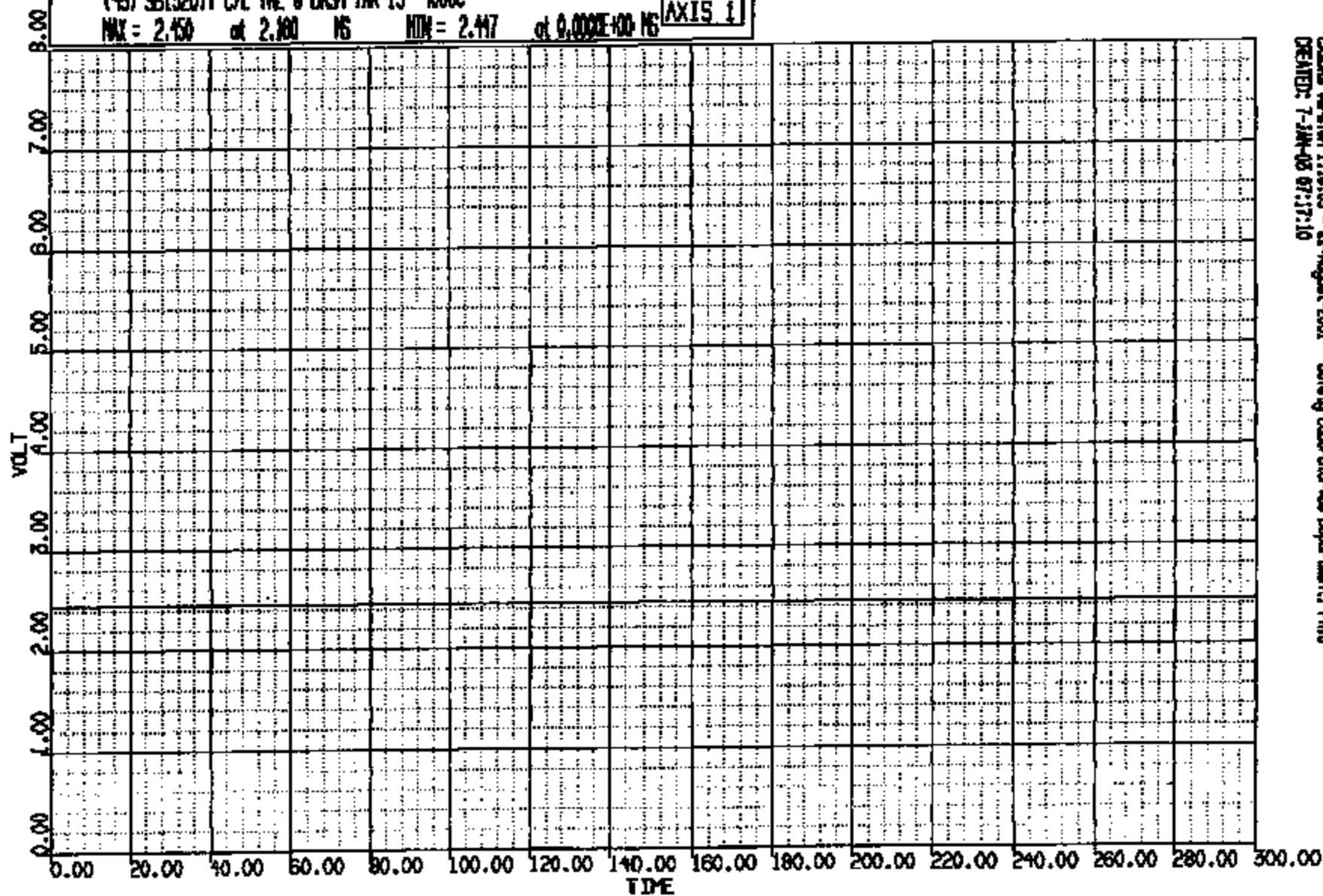
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SB R: 15207 TD: J90502 DATE: 24-OCT-2002 08153140
2005 FN145

(43) SB132071 C/L TNL @ DASH TNR 15 4000

MAX = 2.450 at 2.100 MS MIN = 2.447 at 0.000E+00 MS

AXIS 1



CHSAS Version 1.16.03 - 27-August-2001 Safety Laboratories Department, PNG
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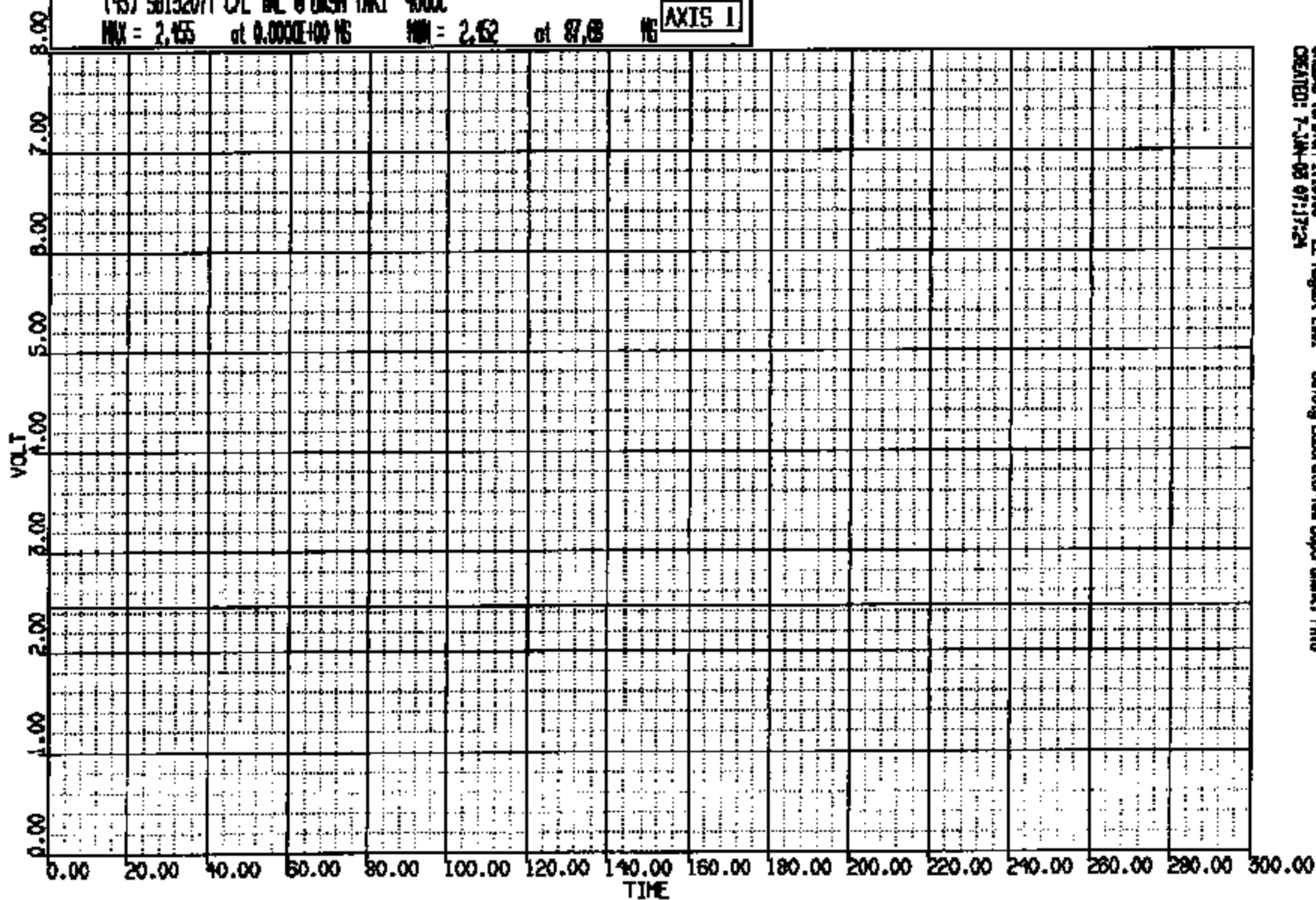
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2003 FN145

(45) SB13207 C/L ML 0 DASH TAKI 4000C

MAX = 2.455 at 0.000E+00 HG

MIN = 2.452 at 87.68 HG

AXIS 1

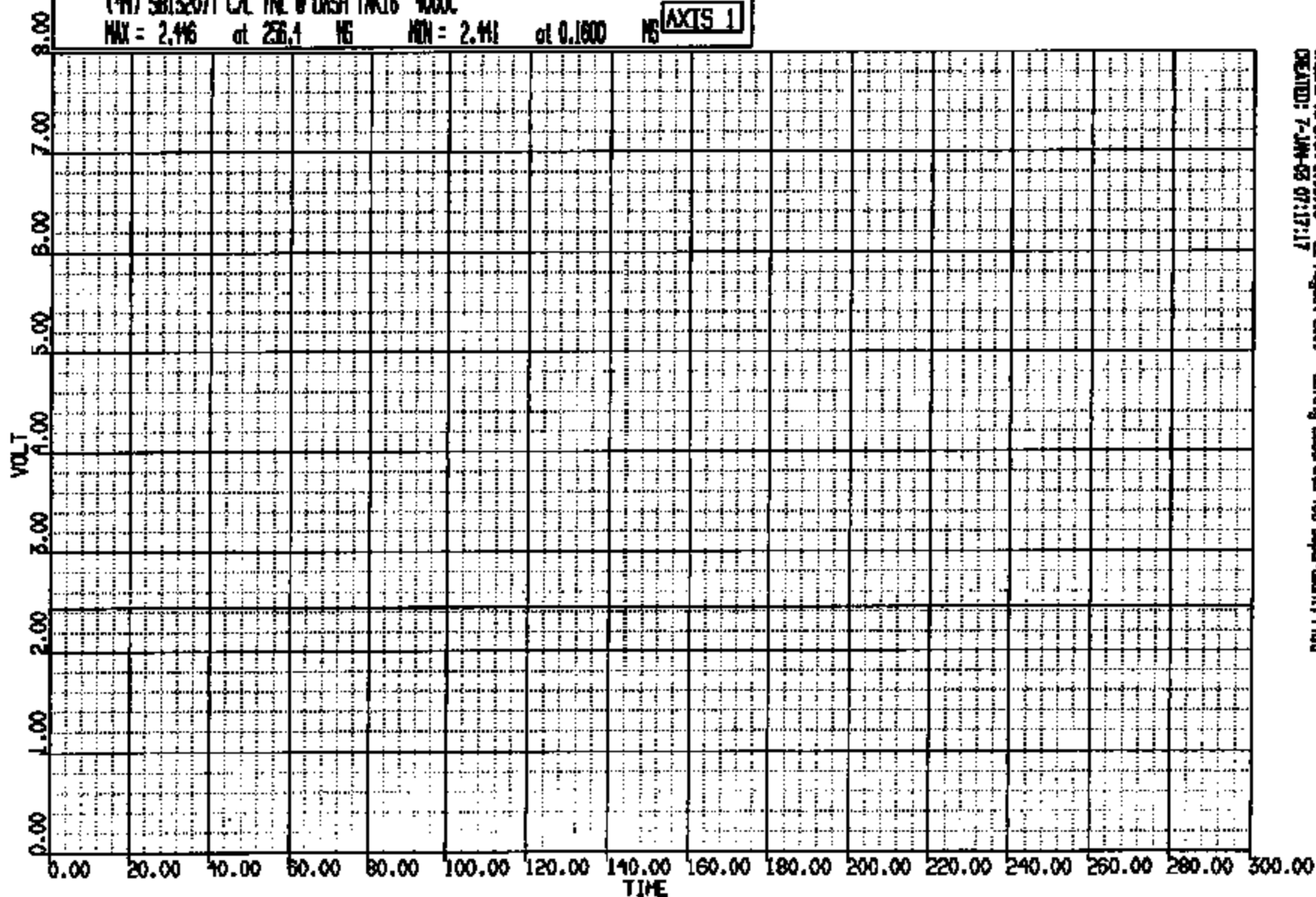


SB R: 15207 TO: JB8582 DATE: 24-OCT-2002 08:53:40
2003 FN146

(44) SB13207T CAL TNL @ DASH TAK16 4000C

MAX = 2.446 at 236.1 NS MIN = 2.441 at 0.1600 NS

AXIS 1



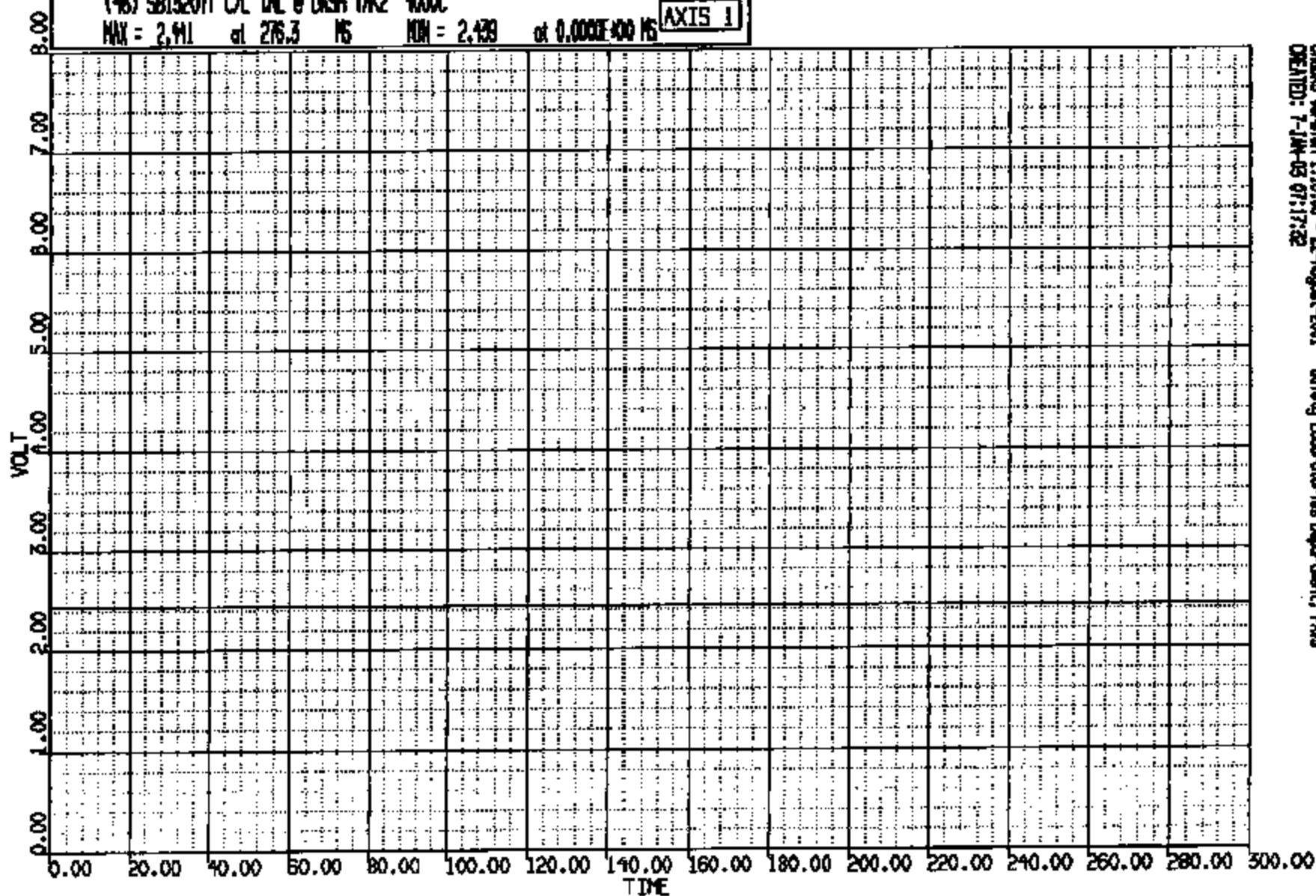
CRIS 0013207

SR RT: 15207 TO: J26592 DATE: 24-OCT-2002 08:53:40
2005 FN145

(46) SR13207 CAL INL @ DASH TAK2 4000C

MAX = 2.411 at 275.3 MS MIN = 2.439 at 0.000E+000 MS

AXIS 1



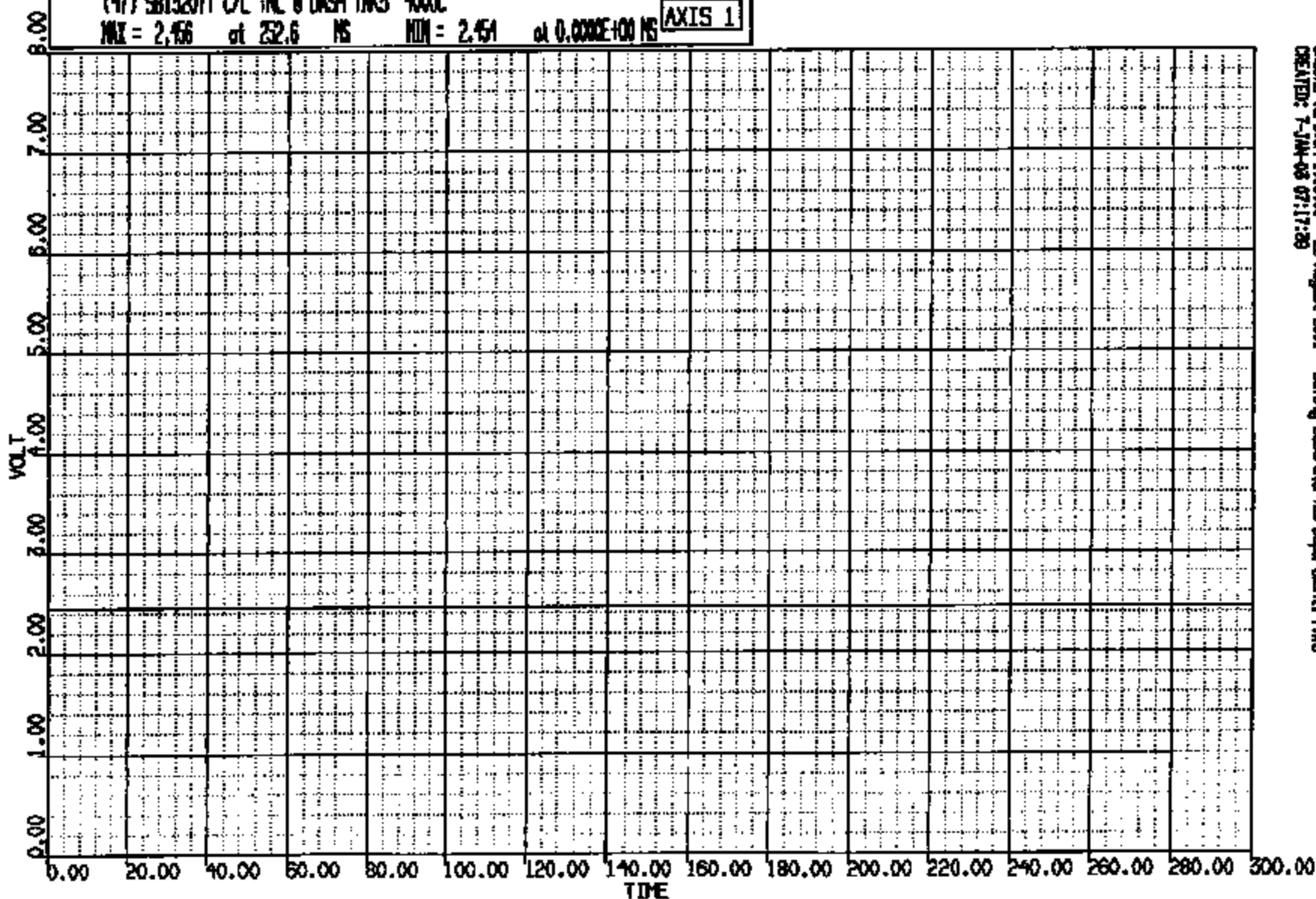
CRTS 0013207

BB R: 18207 TO: JB8582 DATE: 24-OCT-2002 08:53:40
2008 FN148

(47) SB13207T C/L TNL 0 DASH TAK3 4000C

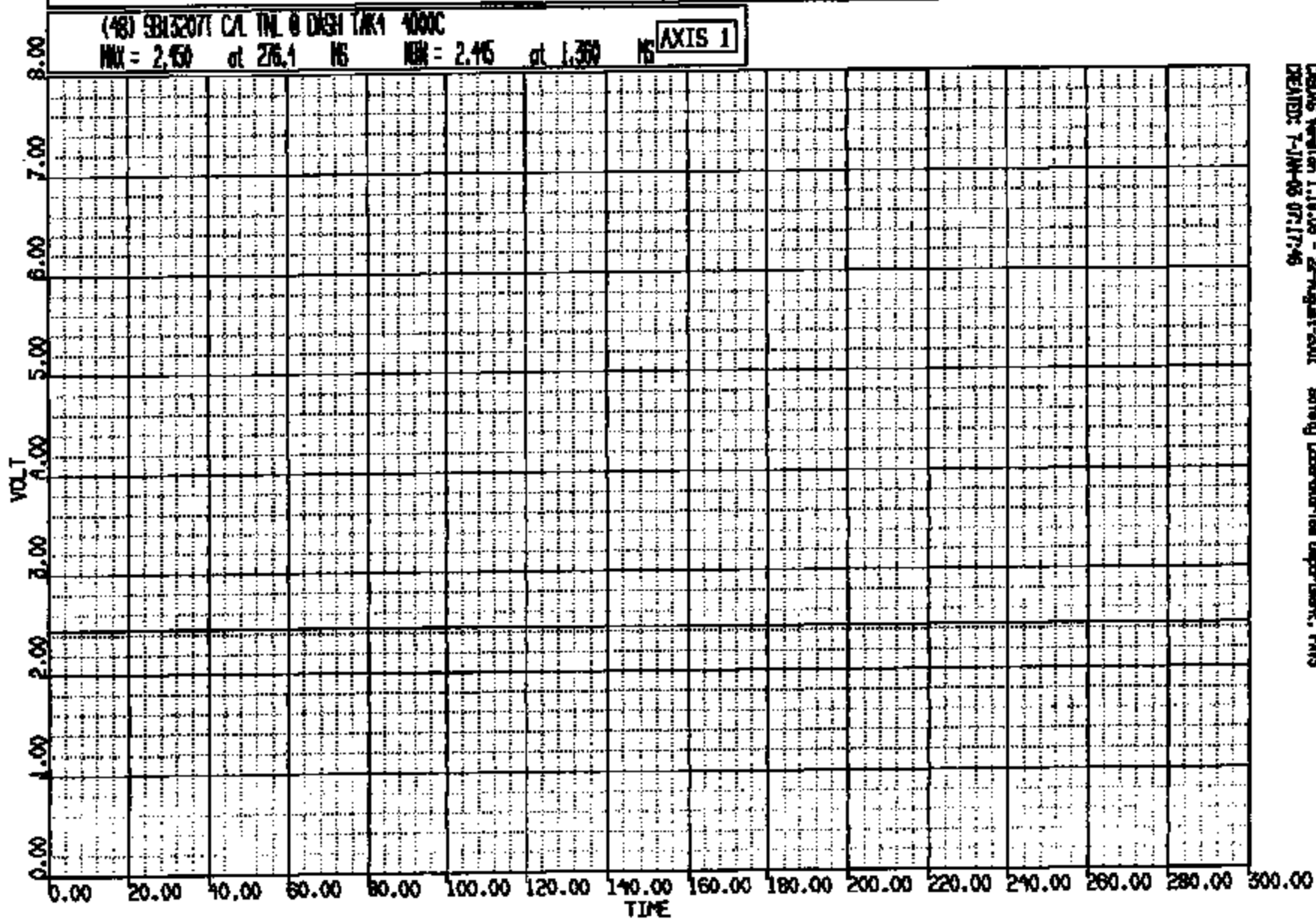
MAX = 2.456 at 232.6 MS MIN = 2.451 at 0.000E+00 MS

AXIS 1



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2002 FN145



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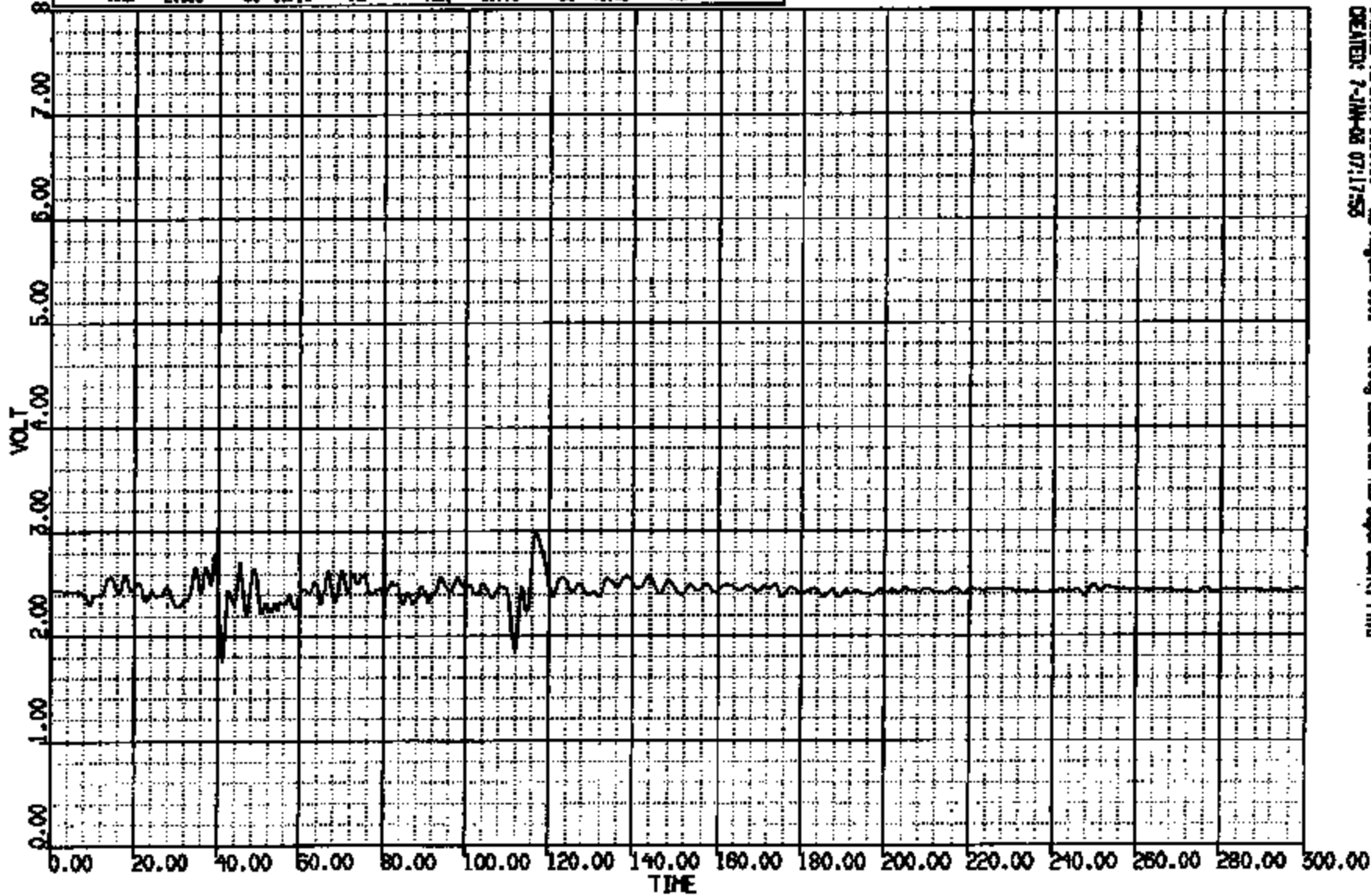
CRIS 0013207

SD RI 13207 TO: JB8582 DATE: 24-OCT-2002 08:53:40
2005 FN145

(49) SB13207T C/L WL 0 DASH TAGS 4000C

MAX = 2.991 at 117.0 NS MIN = 1.775 at 40.95 NS

AXIS 1



CRS05 Version 1.10.05 - 22-August-2001 Safety Laboratories Department, PMS
CREATED: 7-JUN-05 07:17:53

CRIS 0013207

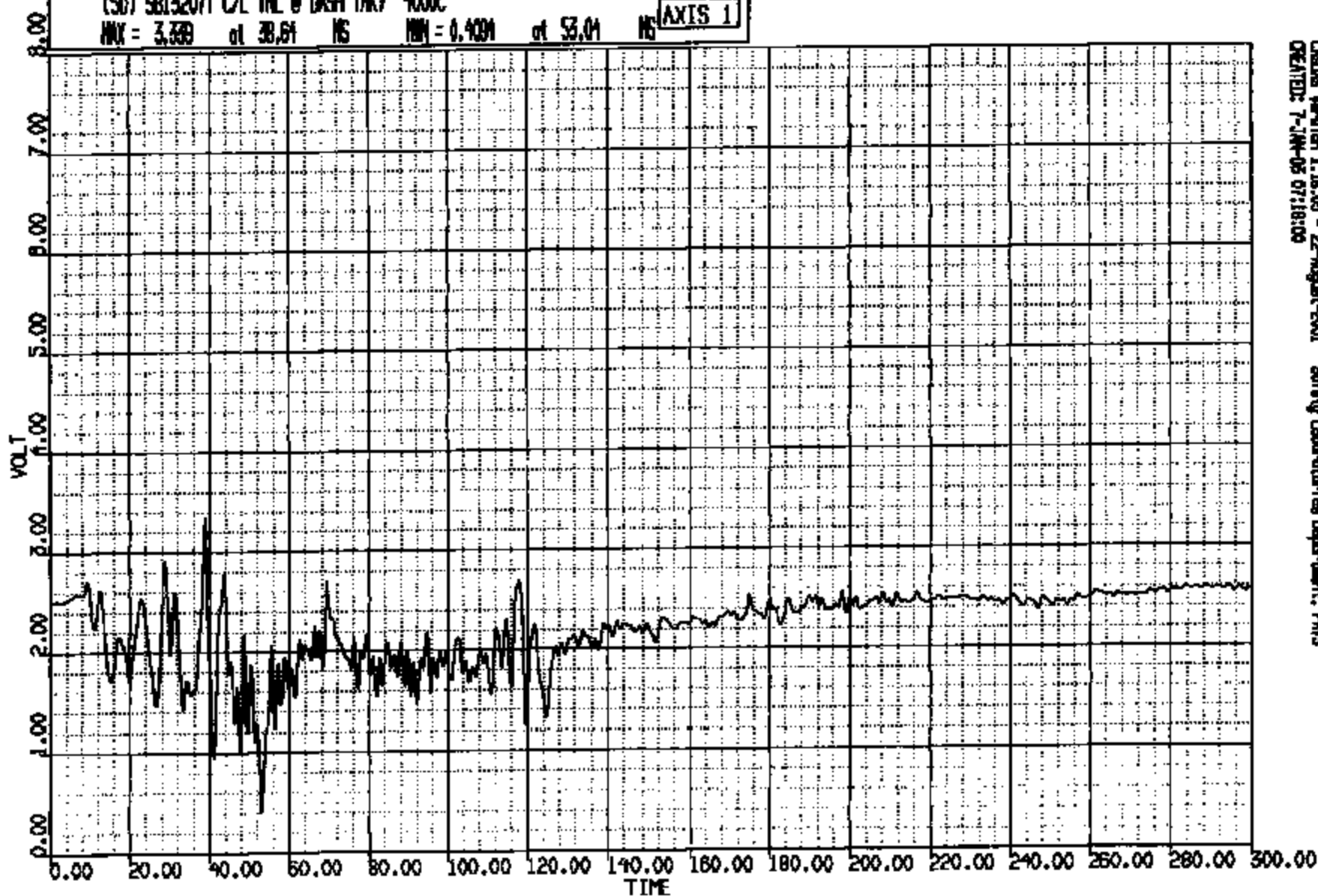
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SR R: 13207 TO: J22592 DATE: 24-OCT-2002 08:55:40
2003 FN145

(50) 58132071 C/L TNL @ DASH TANK 4000C

MAX = 3.339 at 38.61 MS MIN = 0.4004 at 53.01 MS

AXIS 1



CRSIS Version 1.18.05 - 22-August-2001 Safety Laboratories Department, PHS
CREATED: 7-JAN-05 07:18:09

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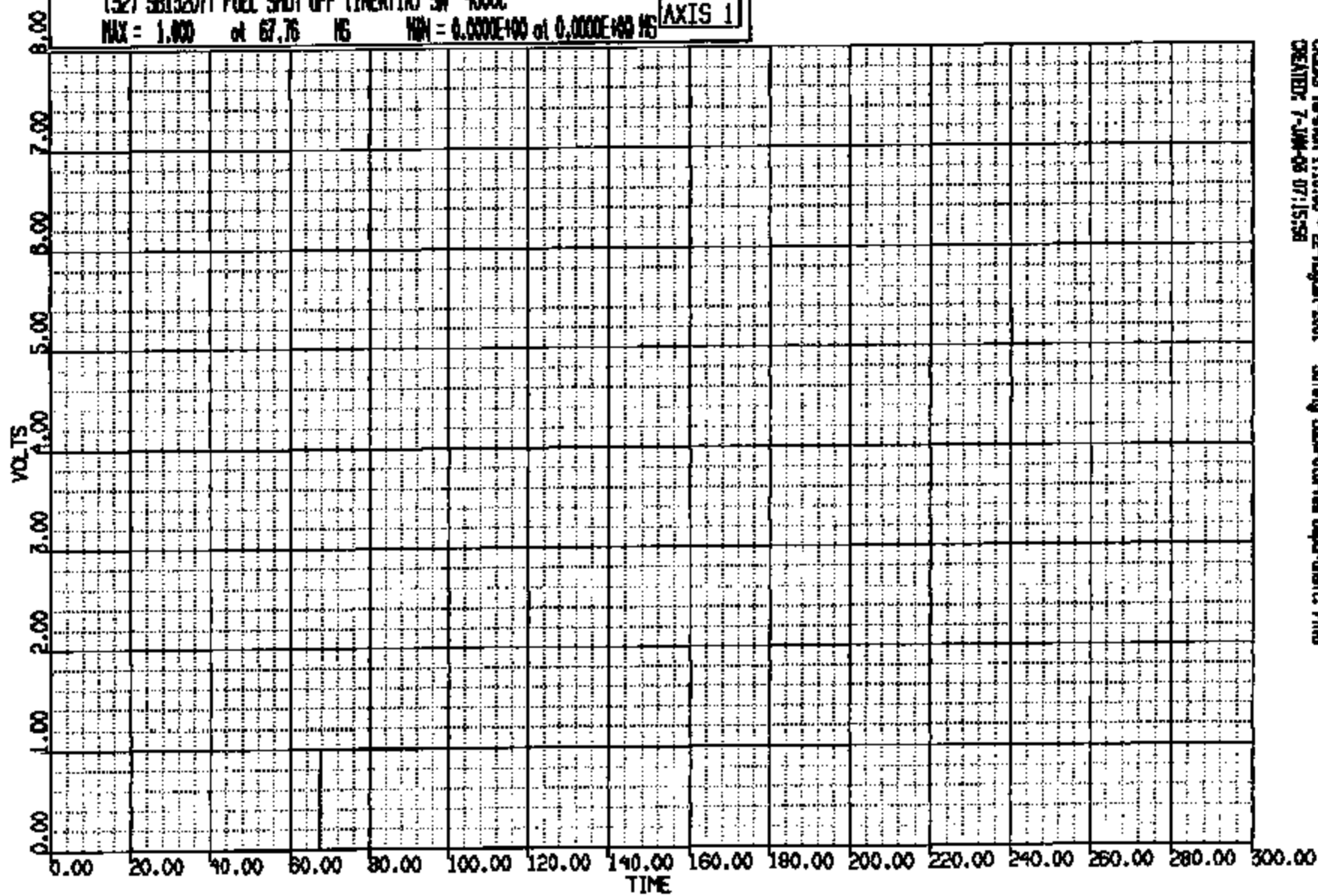
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BB R: 13907 TO: J88582 DATE: 24-OCT-2002 08:58:40
2008 FN145

(32) 58132071 FUEL SHUT OFF (INERTIA) SM 4000C

MAX = 1.000 at 67.76 NS MIN = 0.0000E+00 at 0.0000E+00 NS

AXIS 1



CHS Version 1.18.05 - 22-August-2001 Safety Laboratories Department, PHB
CREATED: 7-JUN-05 07:15:58

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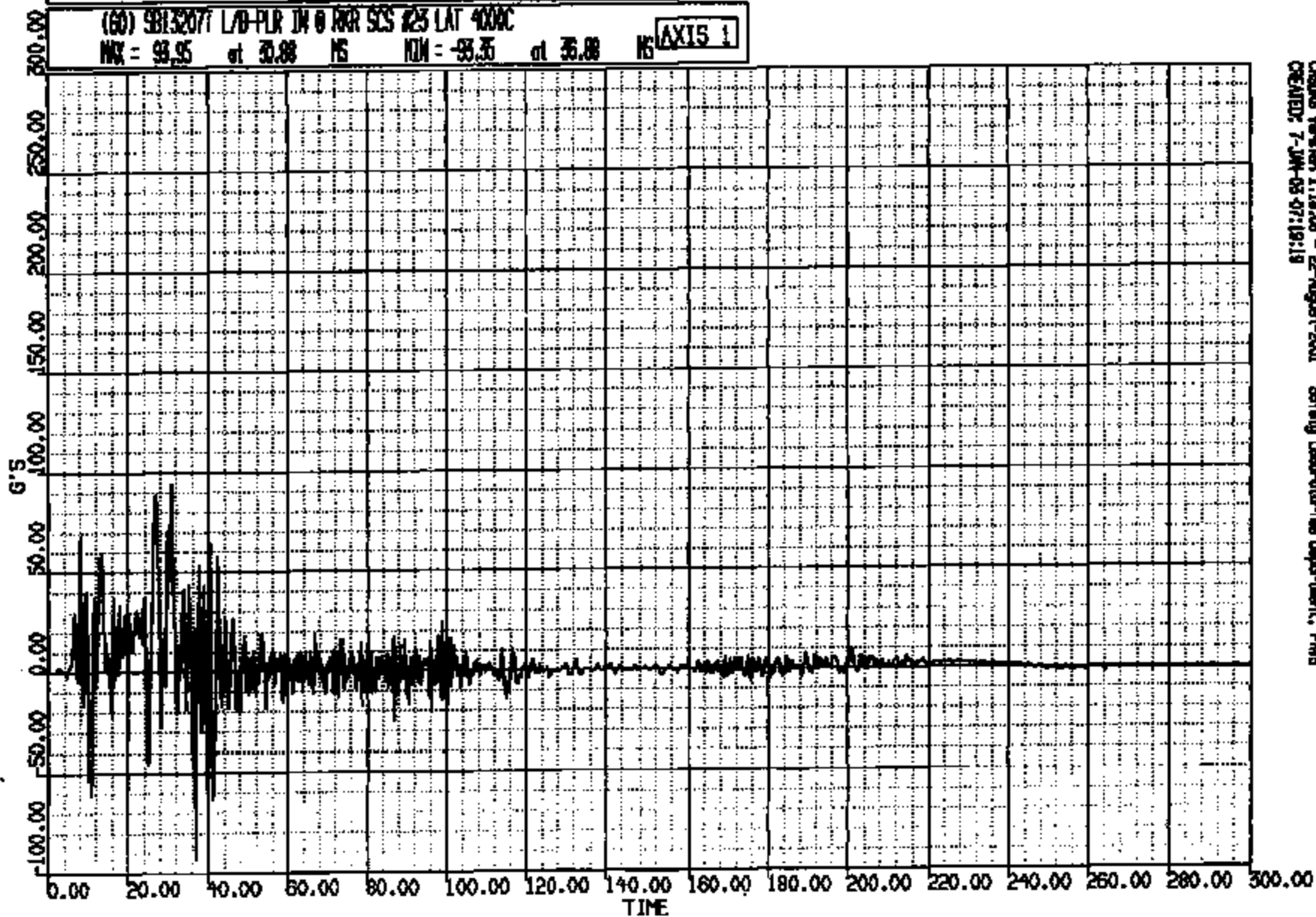
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BB R: 13207 TO: JB9592 DATE: 24-OCT-2002 09:58:40
2003 FN145

(60) 98132077 L/D-PLR IN @ RGR SCS #23 LAT 400AC

MAX = 98.95 at 35.88 NS MIN = -98.35 at 35.88 NS

AXIS 1

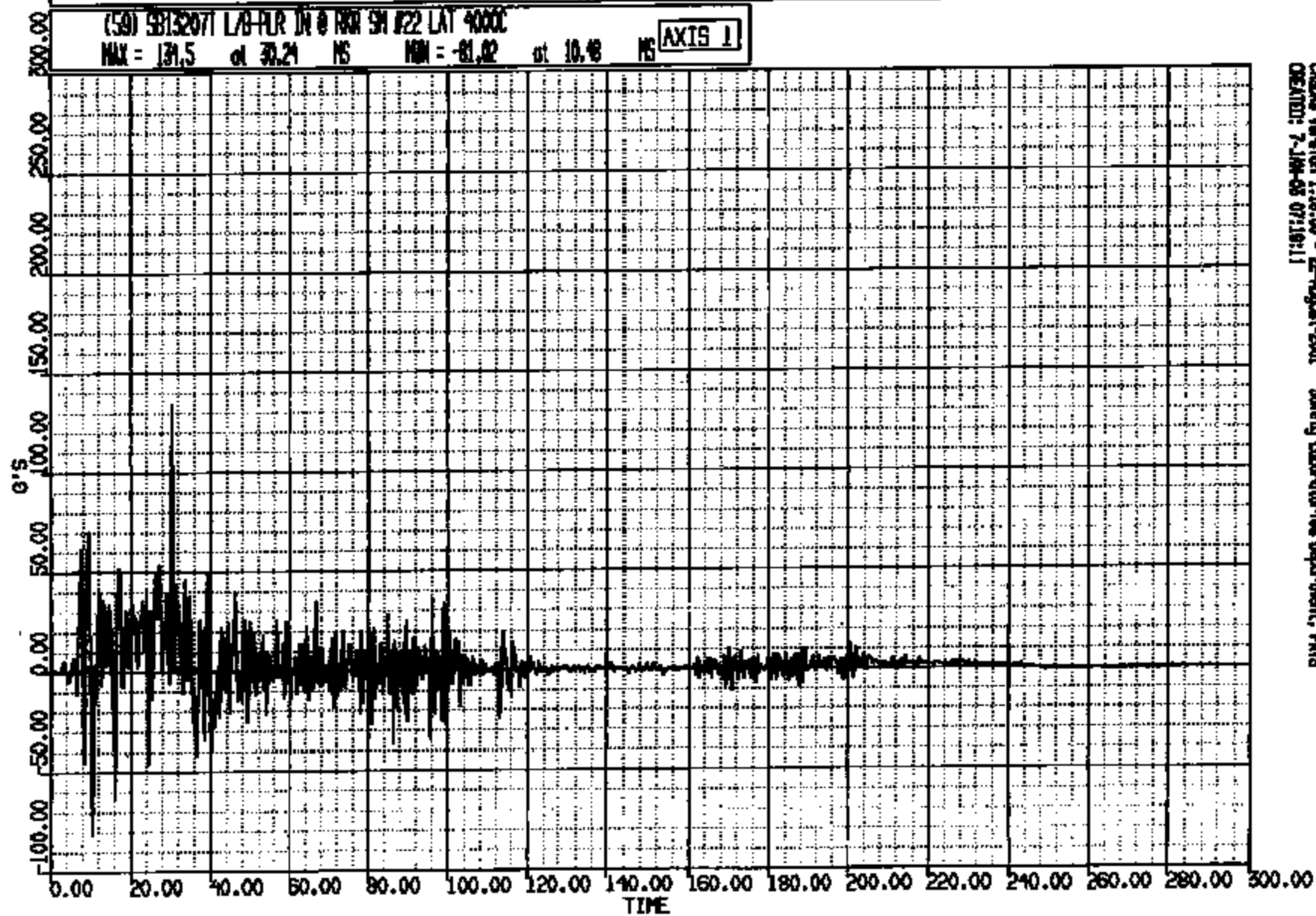


CRIMS Version 1.19.08 - 22-August-2001 Seismic Laboratories Department, PHS
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CRIS 0013207

SB R: 15207 TC: JB5582 DATE: 24-OCT-2002 06:53:40
2005 FN145



CHAS Version 1.10.05 - 22-August-2001 Safety Laboratories Department, PMS
CREATED: 7-JAN-05 07:19:11

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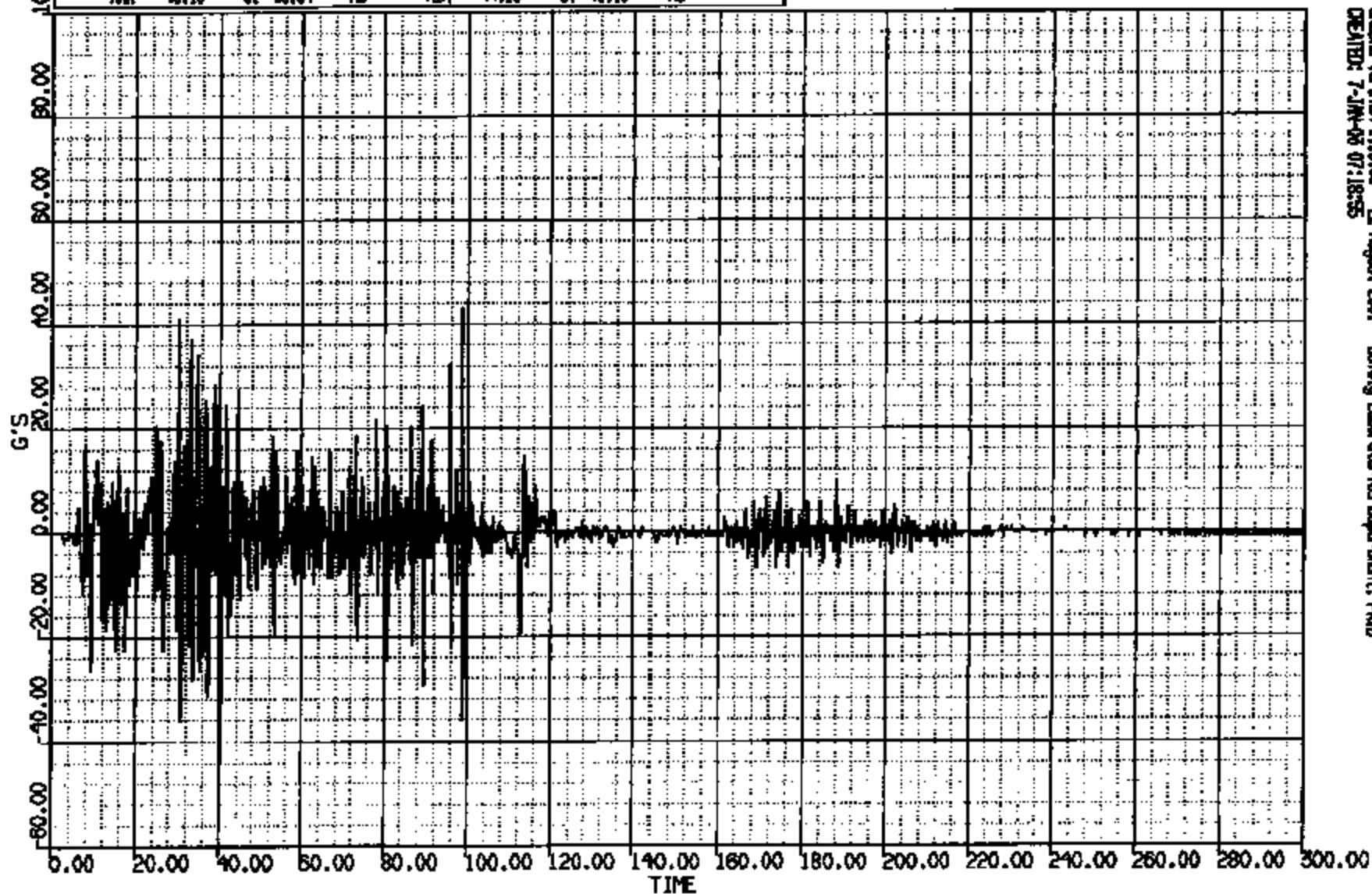
CRTS 0013207

SS RI 13207 TO: J88592 DATE: 24-OCT-2002 08:53:40
2005 FN145

(57) SRI32071 L/R-PLR TN 8 ROR SH #22 LONG 4000C

MAX = 43.18 at 96.61 MS MIN = -44.15 at 10.08 MS

AXIS 1



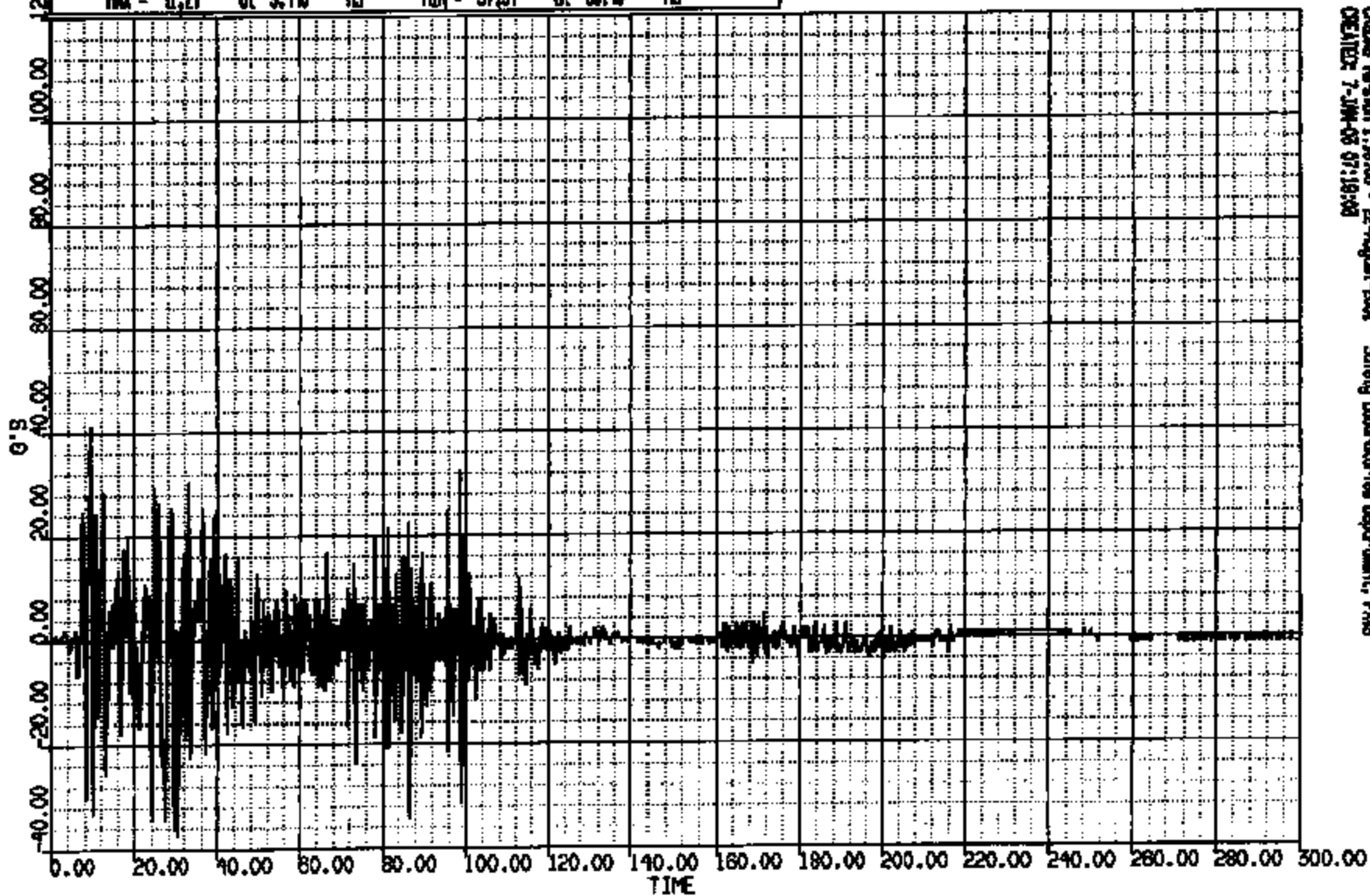
CRIS 0013207

SB R: 13207 TO: J89592 DATE: 24-OCT-2002 09:55:40
2005 FN145

(58) 58132071 L/O-FLR IN @ RKR SH #22 VERT 4000C

MAX = 41.27 at 9.40 MS MIN = -37.34 at 30.40 MS

AXIS 1



CRIS 0013207

CRIS Version 1.39.05 - 22-August-2004 Safety Laboratory on Department, PHAS
CREATED: 7-JUN-03 07:19:03

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