

LEVEL III (2)

AFWL-TR-78-158, Pt. 2

AFWL-TR-78-158 Pt. 2

A071521

A071522

SIMULATION DEVELOPMENT FOR TARGET ASSESSMENT

Part 2 of 3

J. A. Earickson

Eric H. Wang Civil Engineering Research Facility
University of New Mexico
Albuquerque, NM 87131

March 1979

Final Report

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Air Force Systems Command
Kirtland Air Force Base, NM 87117



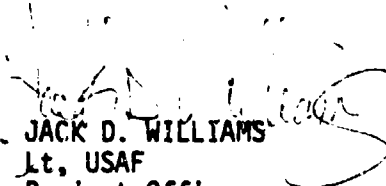
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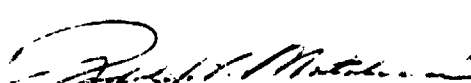
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JACK D. WILLIAMS
Lt, USAF
Project Officer

FOR THE COMMANDER


RUDOLPH V. NATALUCCI
Lt Colonel, USAF
Chief, Simulation Branch


STEWART W. JOHNSON
Lt Colonel, USAF
Chief, Civil Engineering Research
Division

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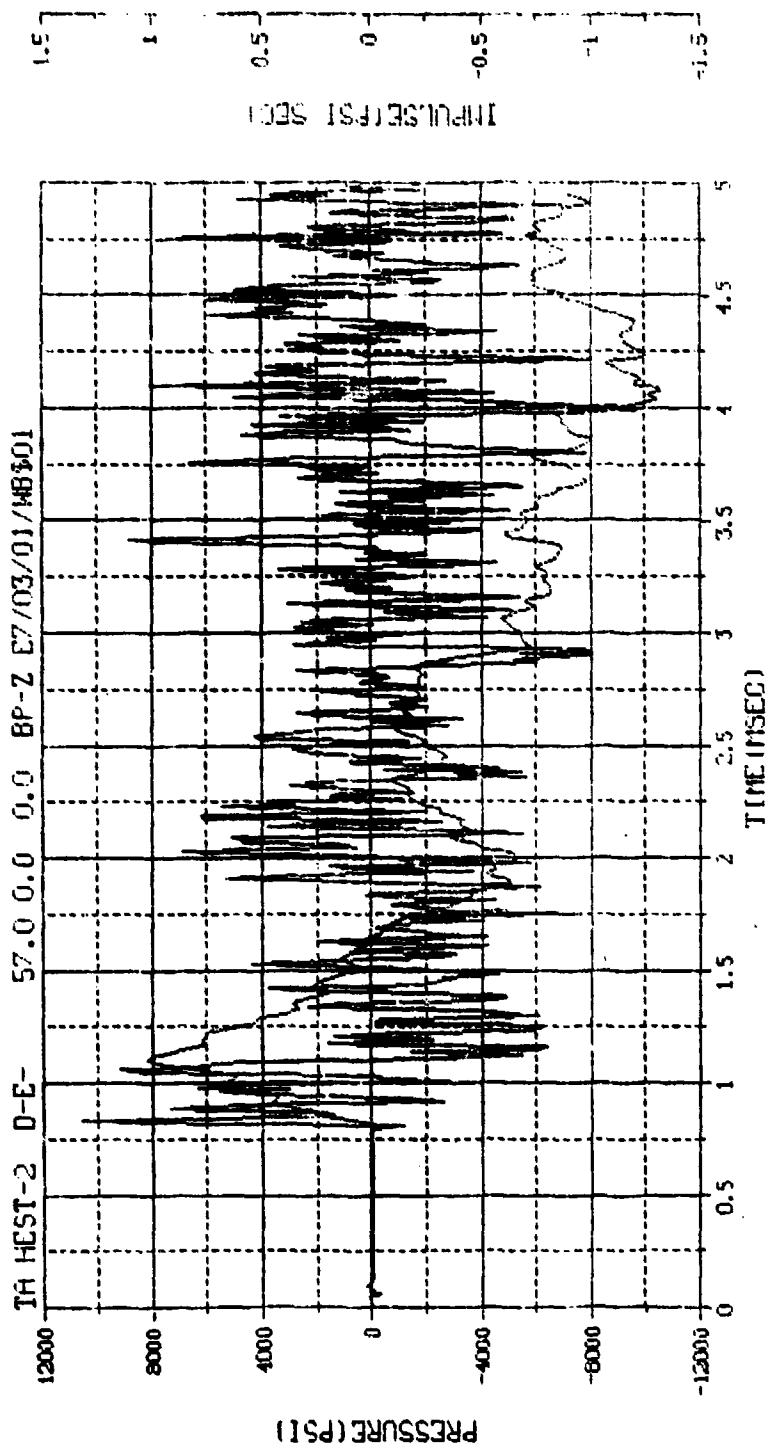
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18. SUPPLEMENTARY NOTES This report consists of 3 parts. Part 1 contains the front matter and pages 1 to 178. Part 2 contains pages 179 to 364. Part 3 contains pages 365 to 530.		
19. KEY WORDS (Continue on reverse side if necessary and identify by block number) Simulator HEST (High Explosive Simulation Technique) Target Assessment Air Shock		
20. ABSTRACT (Continue on reverse side if necessary and identify by block number) This effort produced design information and experiment data for improving high explosive simulation of nuclear airblasts. Specifically, a peak pressure versus charge density relationship for Iremite in 100 percent foam cavities was obtained for pressure up to 68 MPa. The results of this effort were transmitted to USAE Waterways Experiment Station. WES is conducting tests on generic silos as part of a DNA targeting research and test program.		

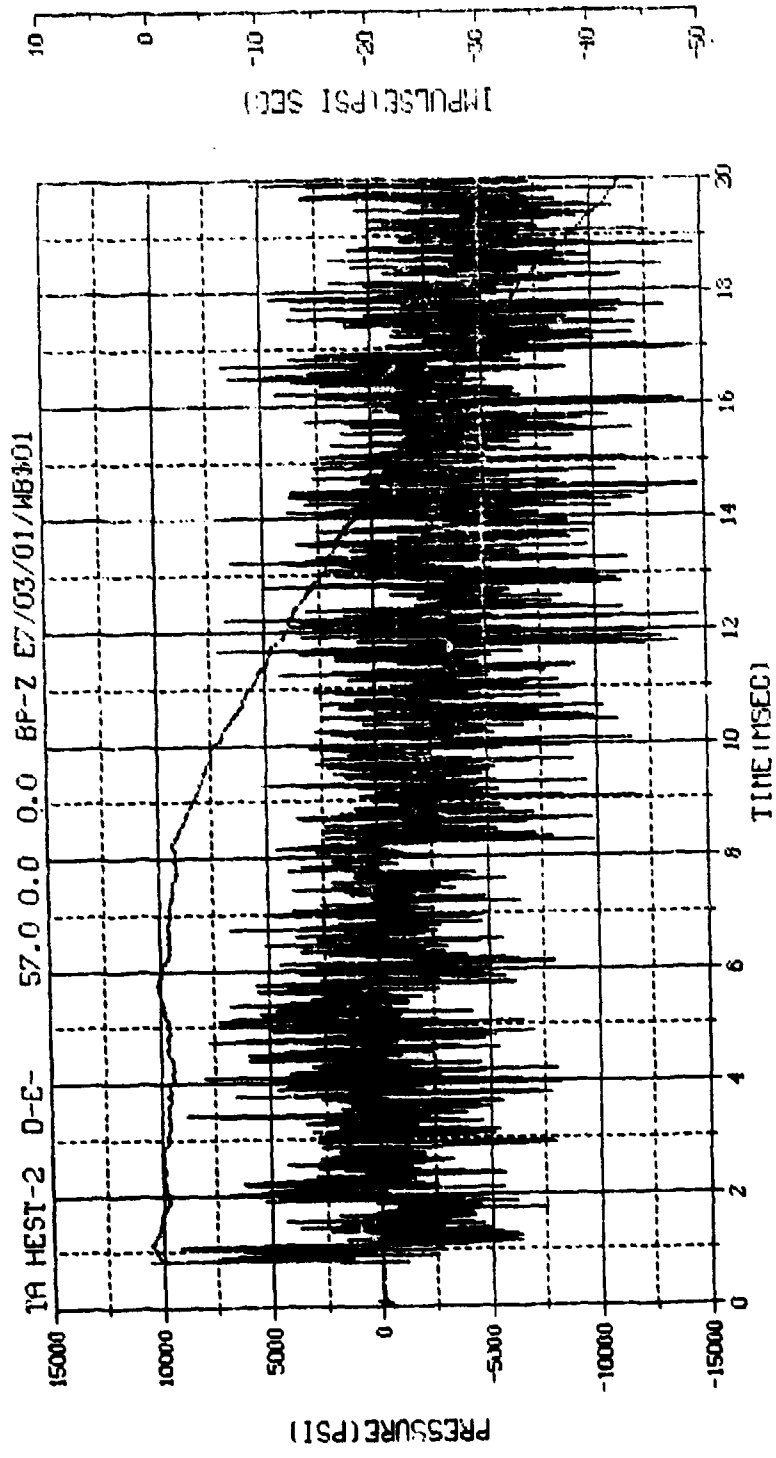
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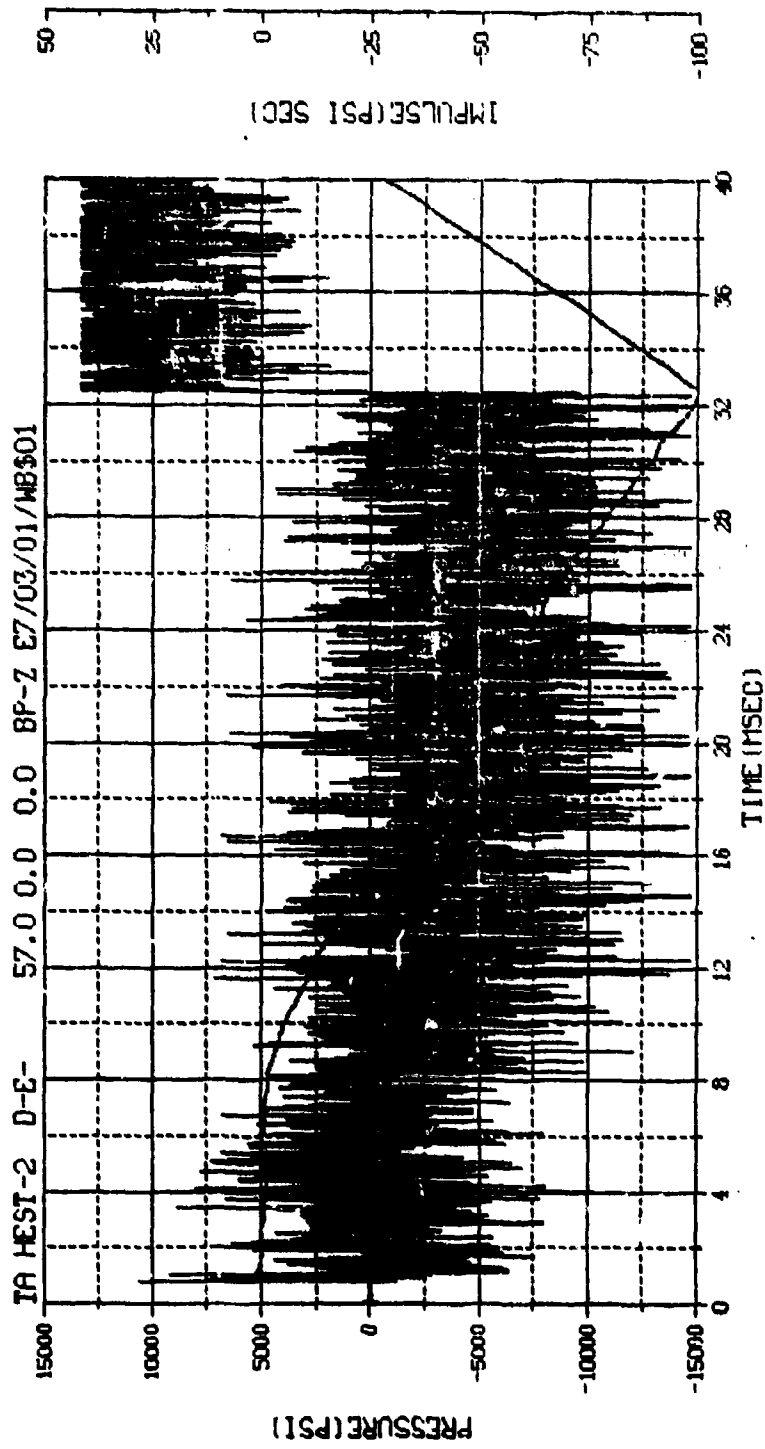
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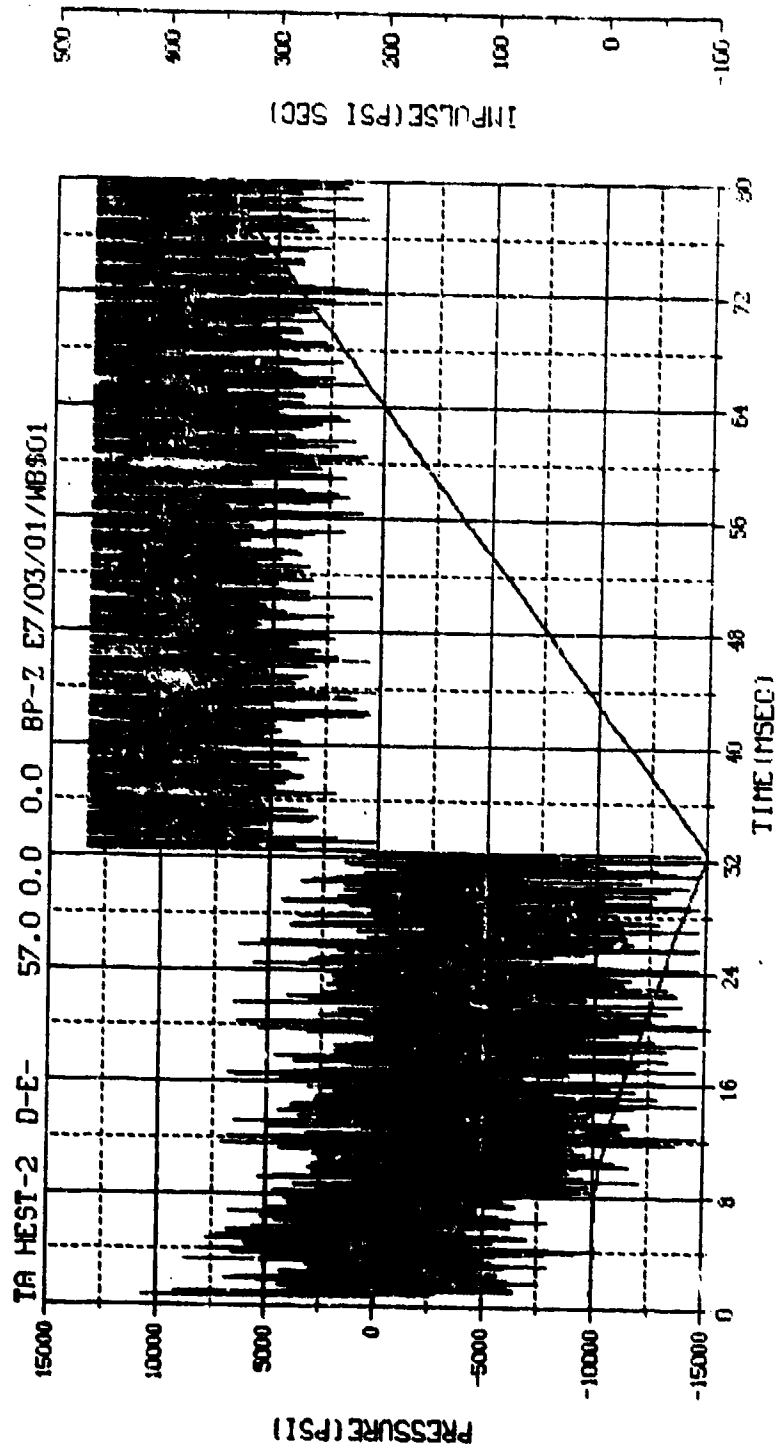
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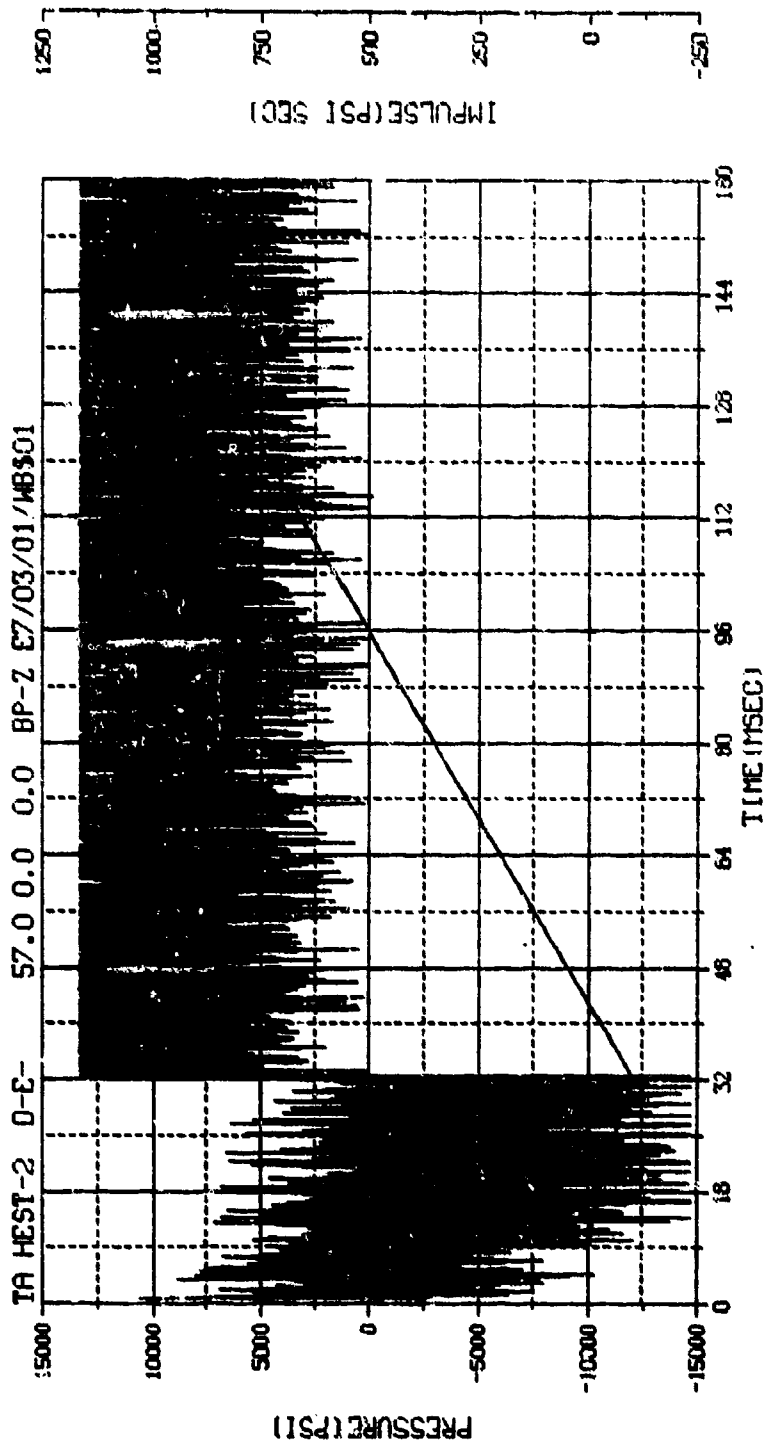
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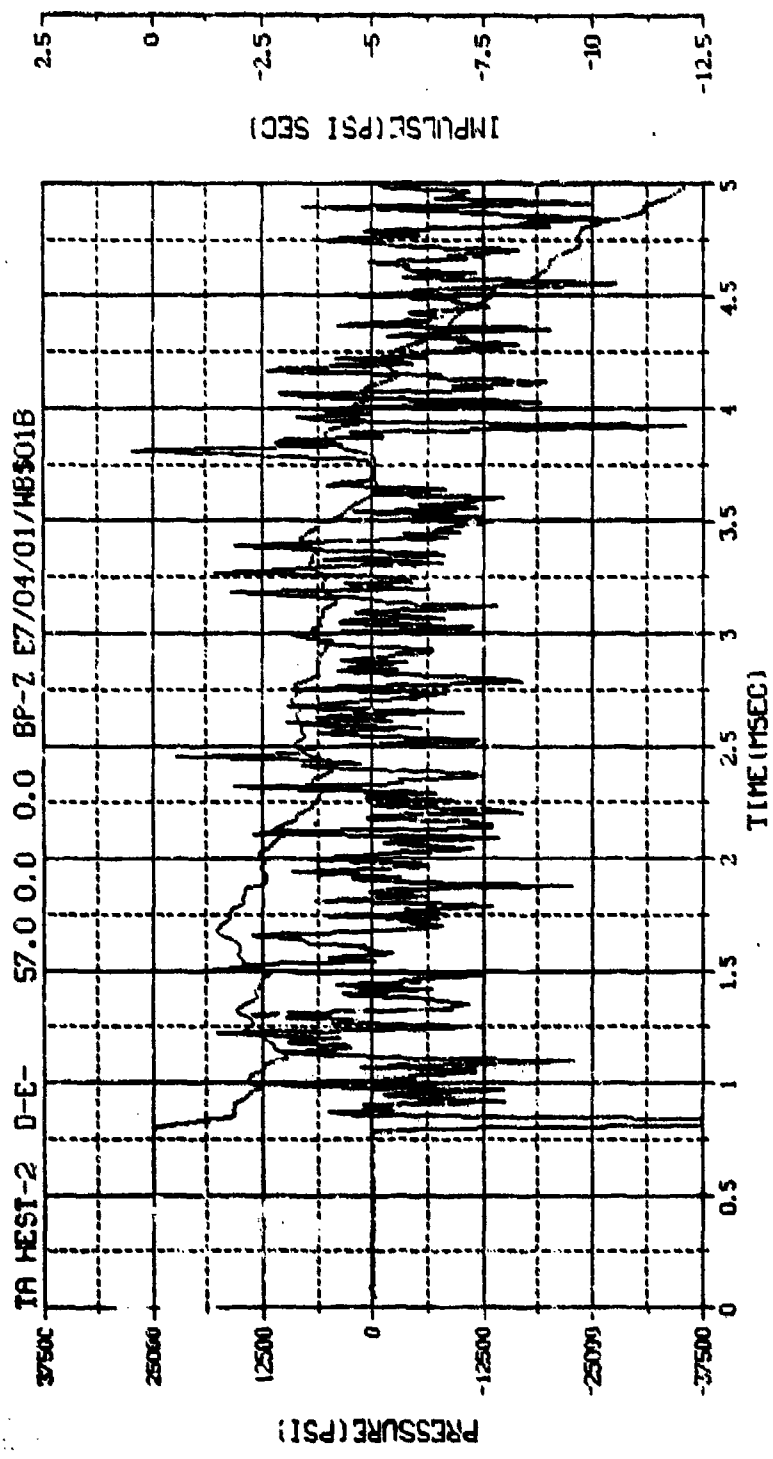
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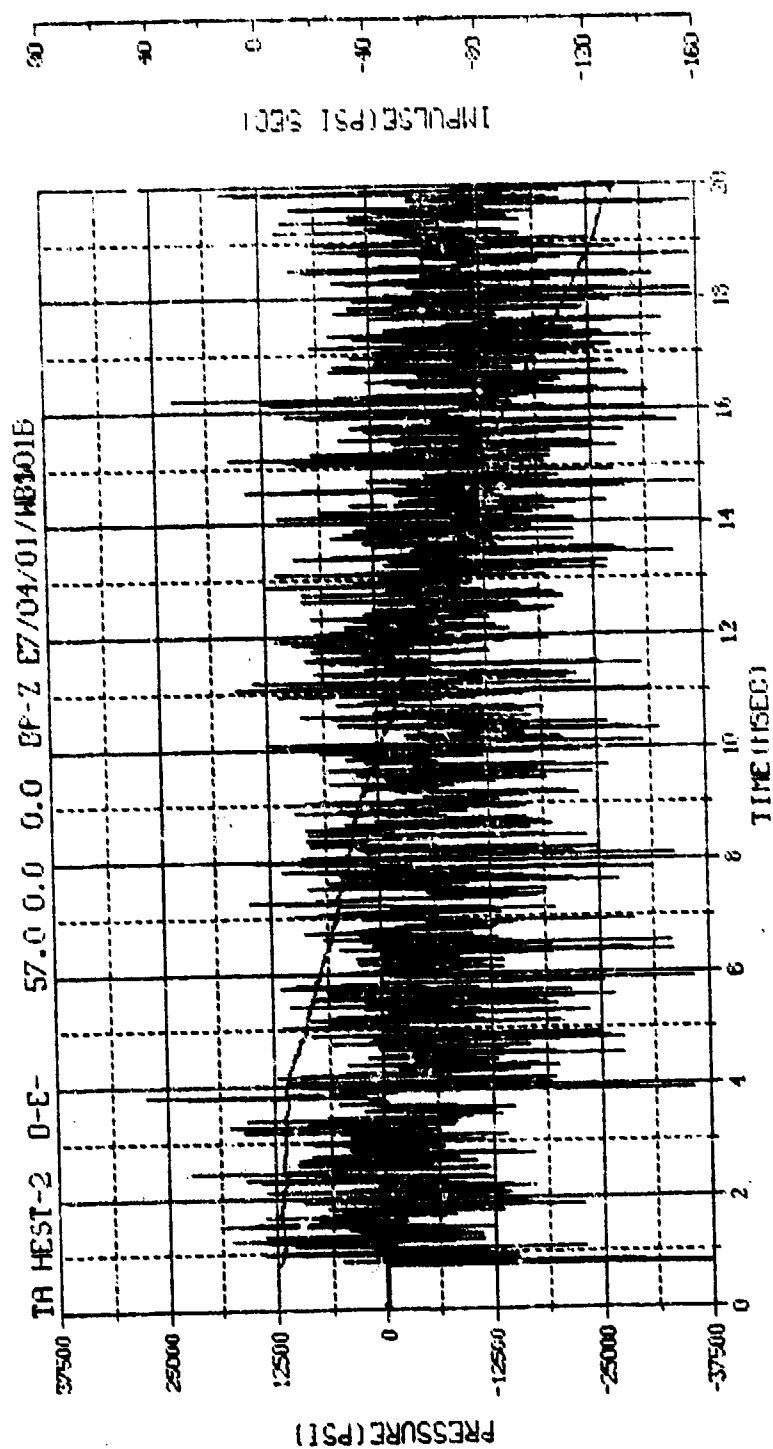
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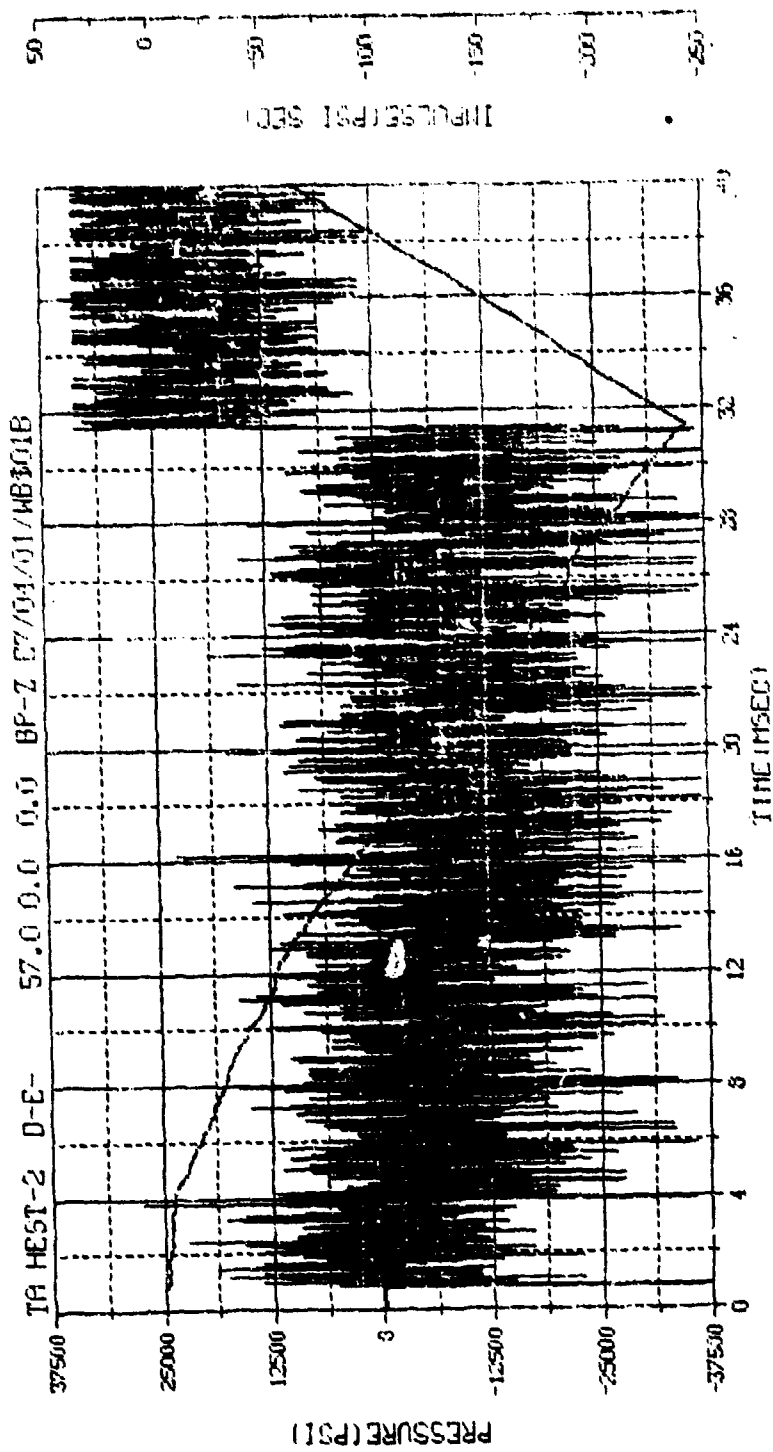
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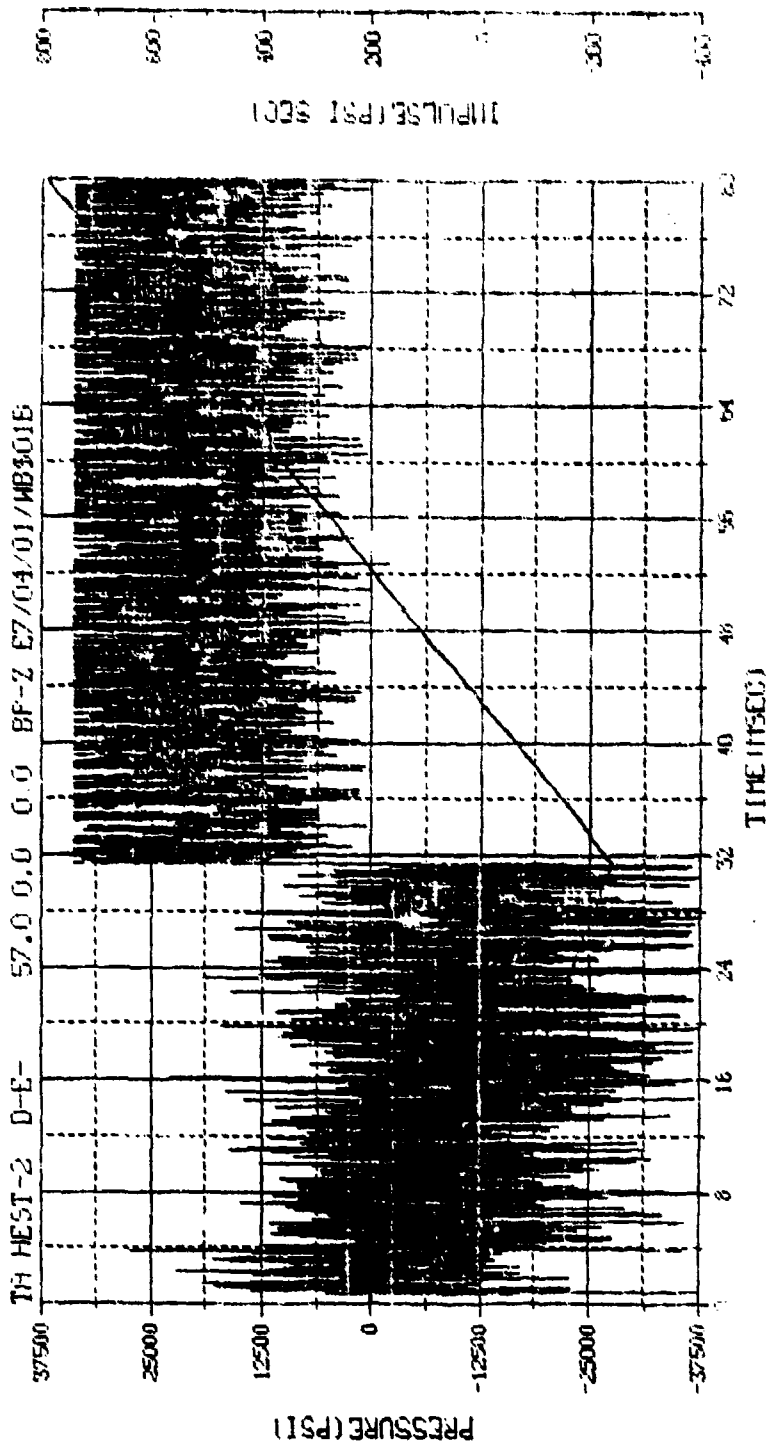
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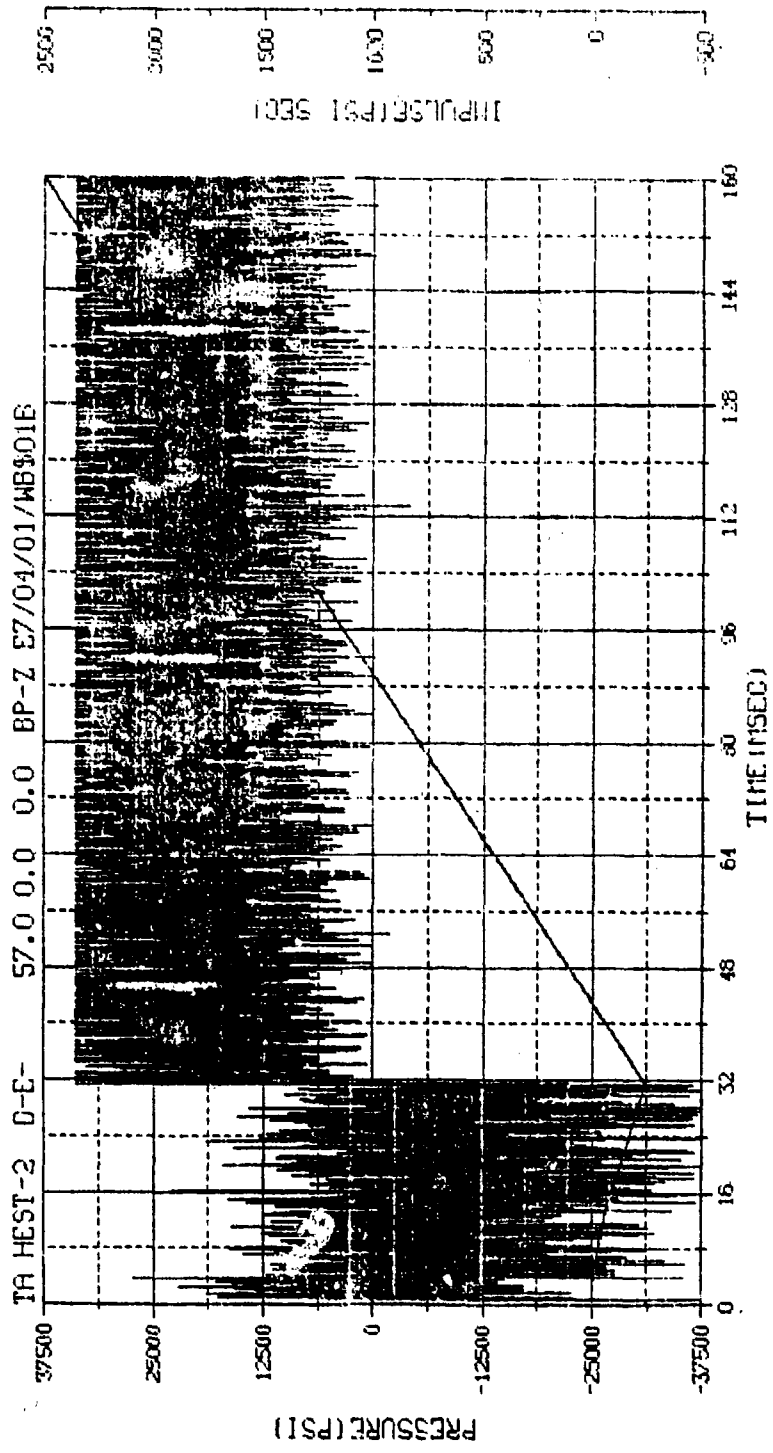
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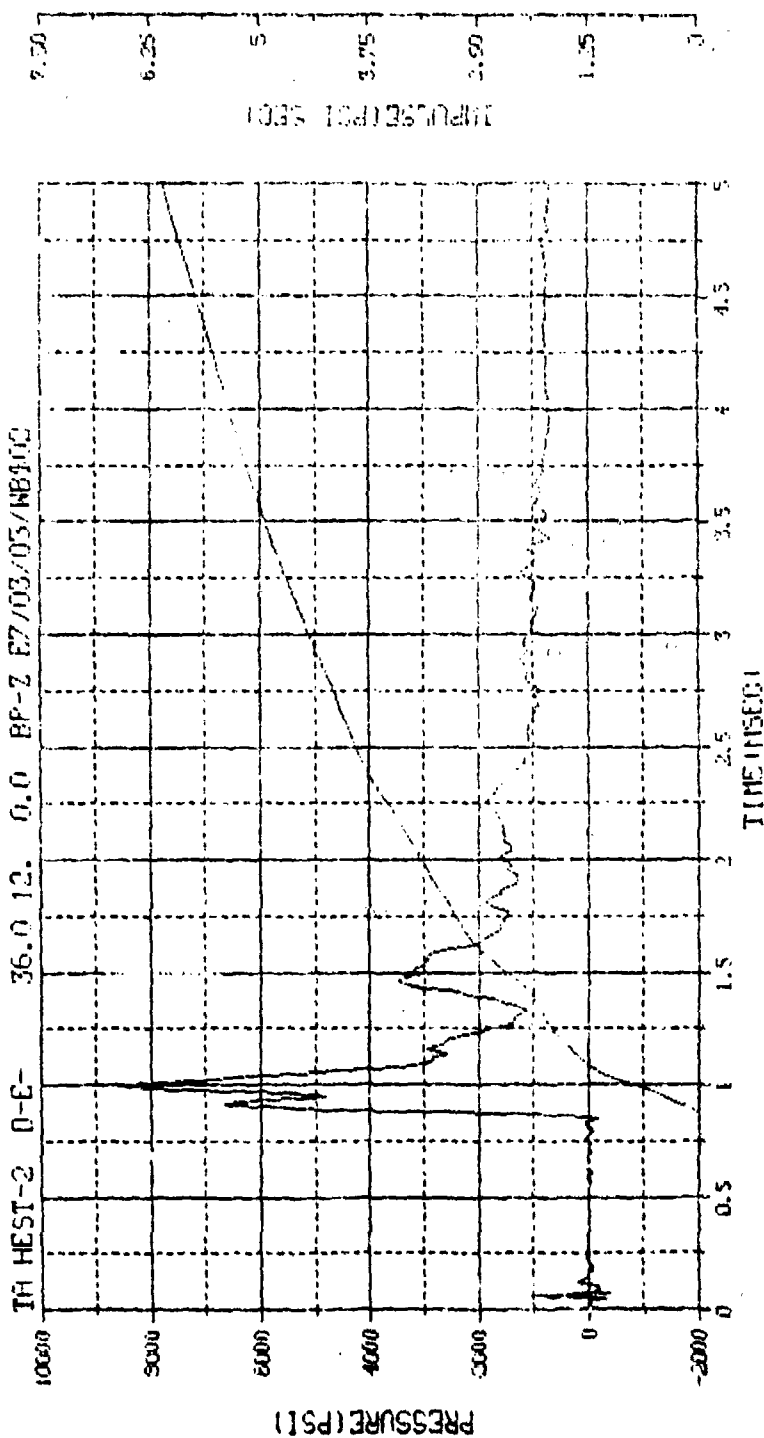
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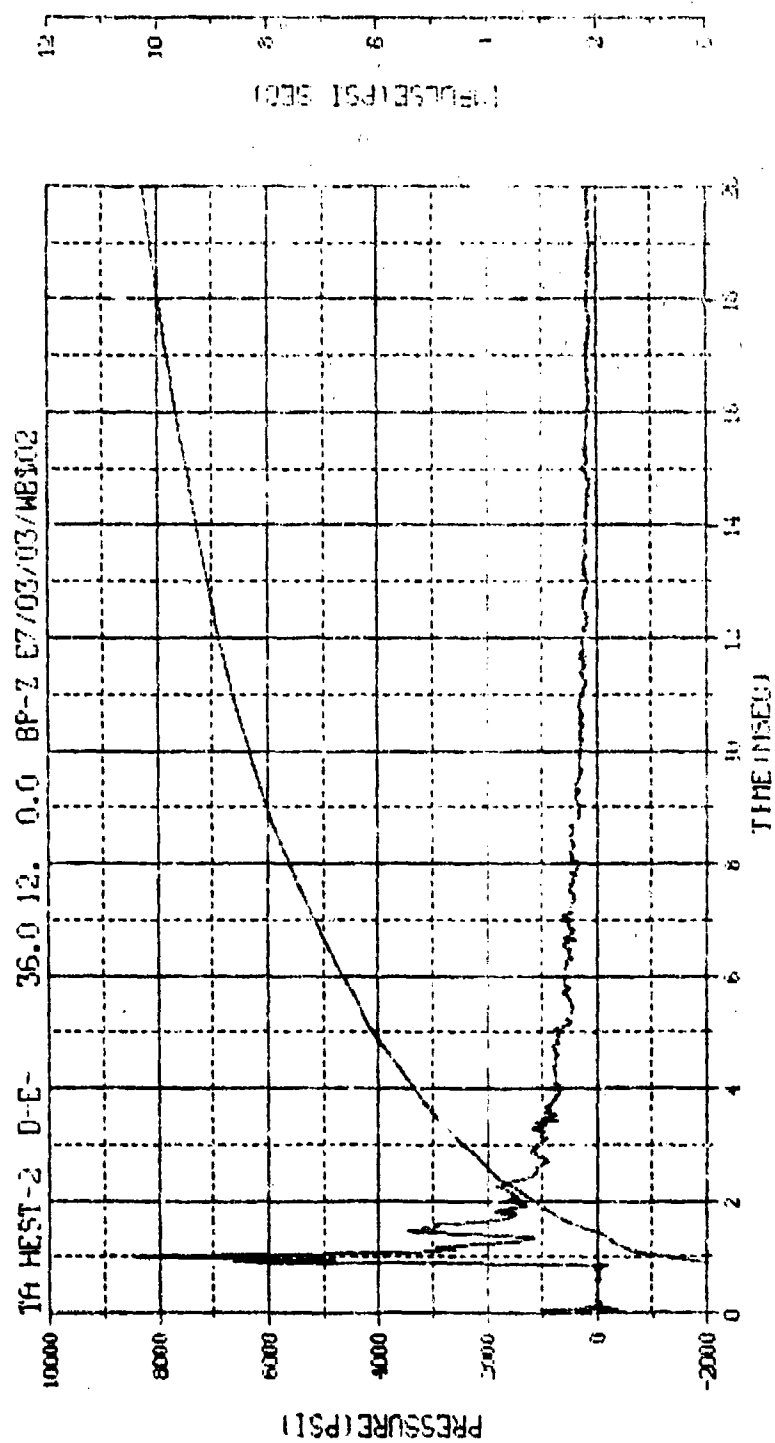
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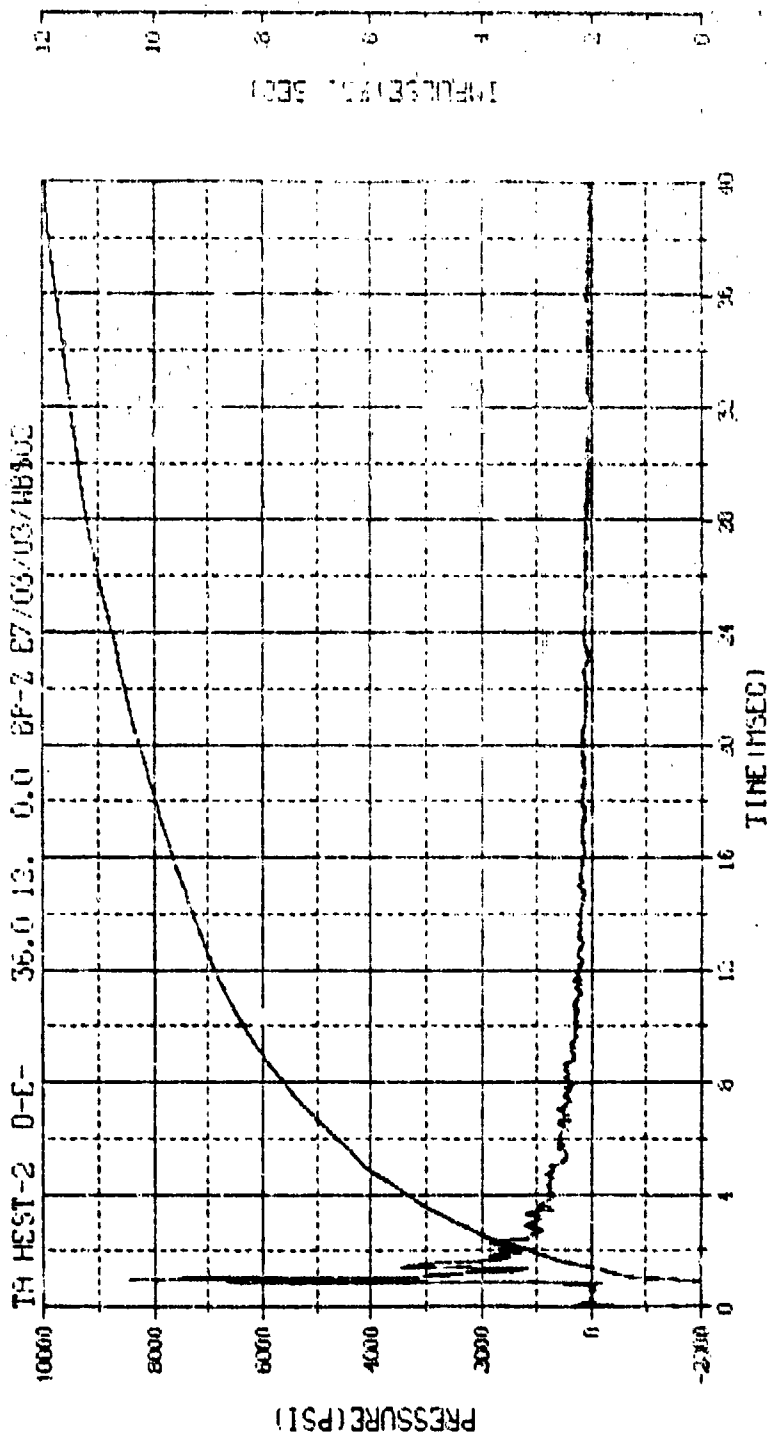
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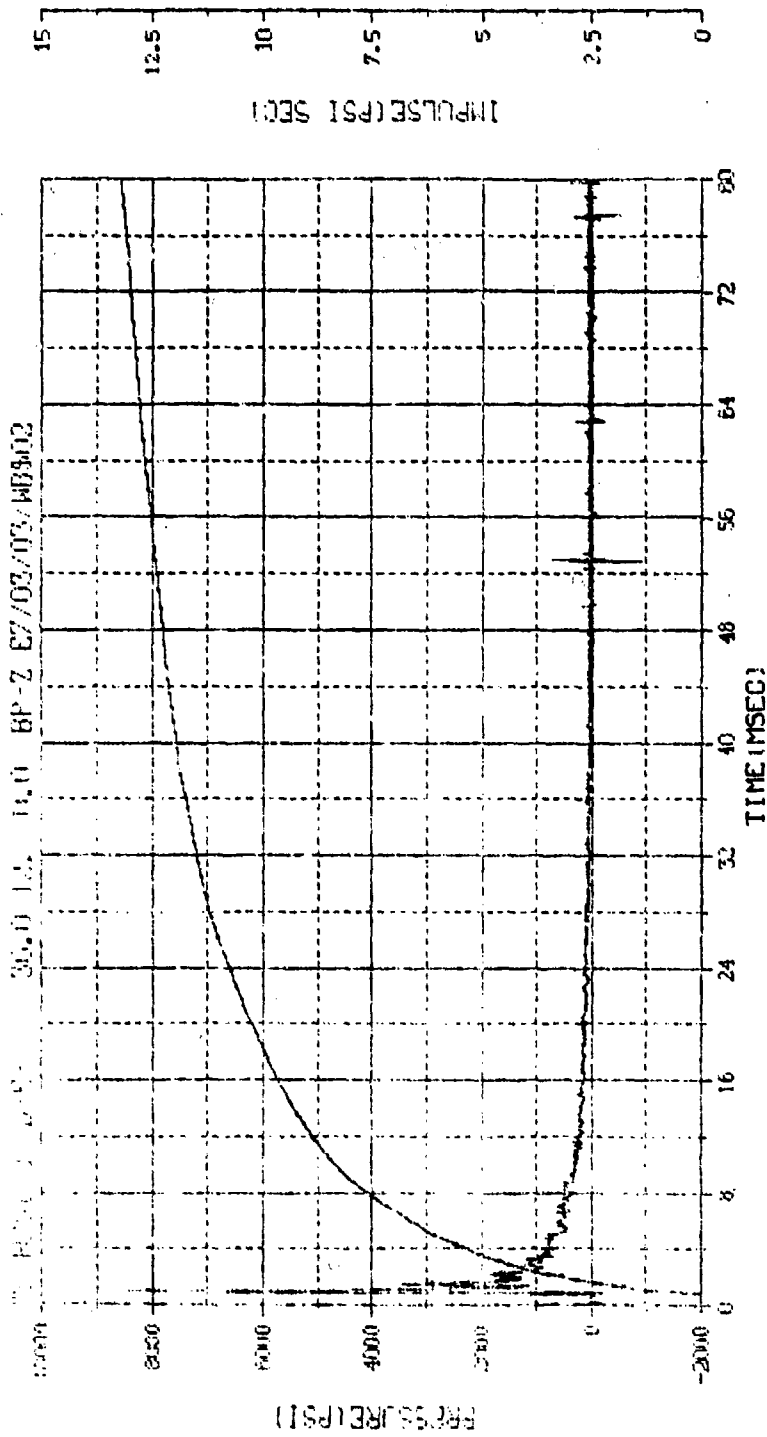
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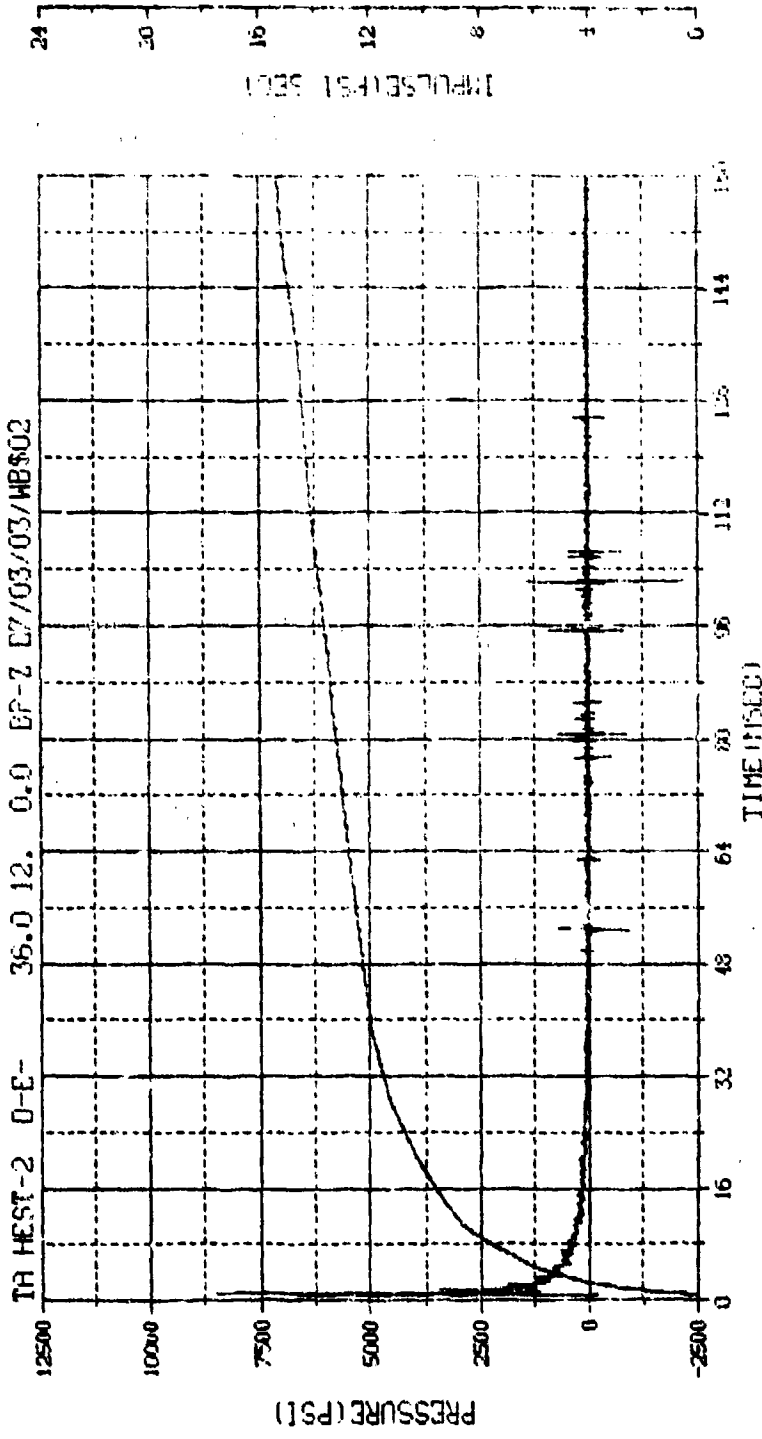
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VSN
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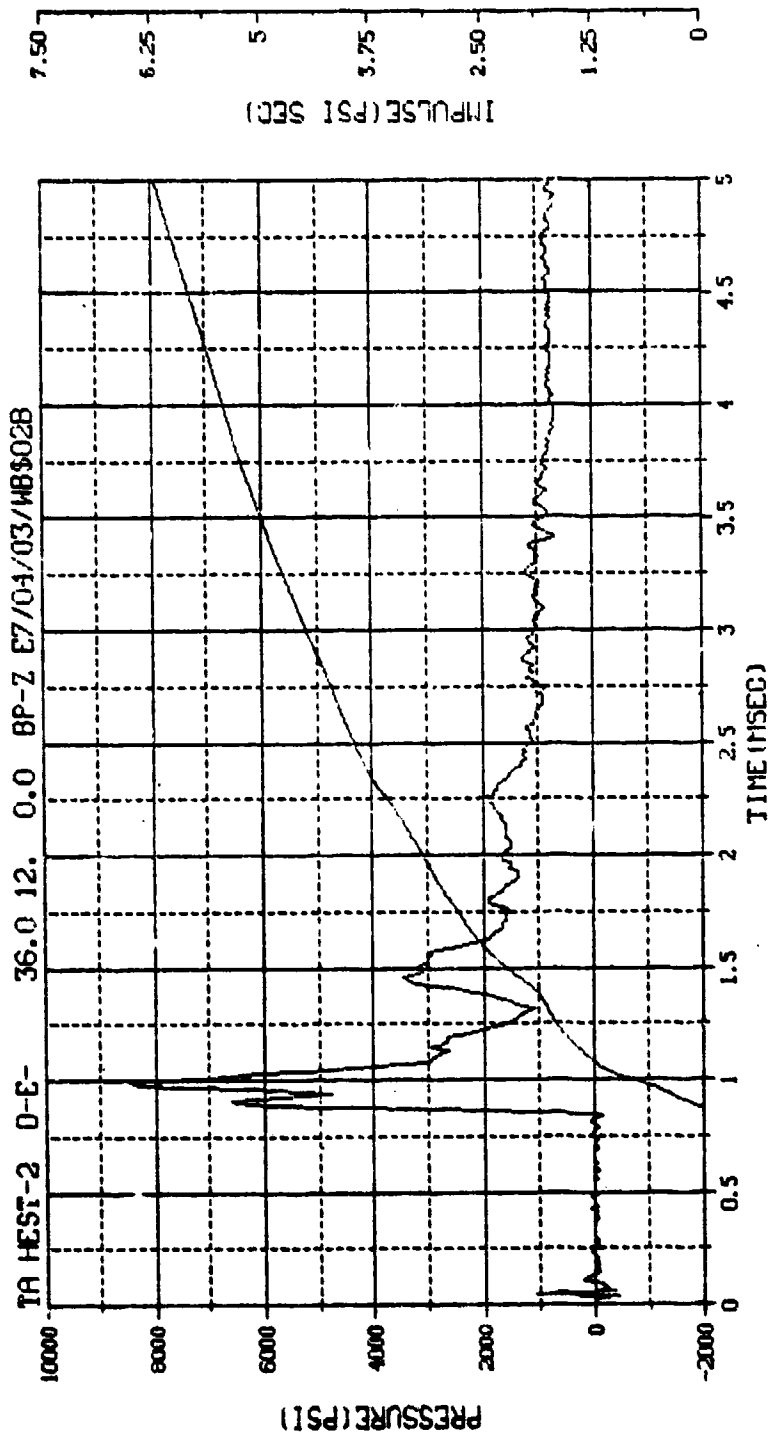


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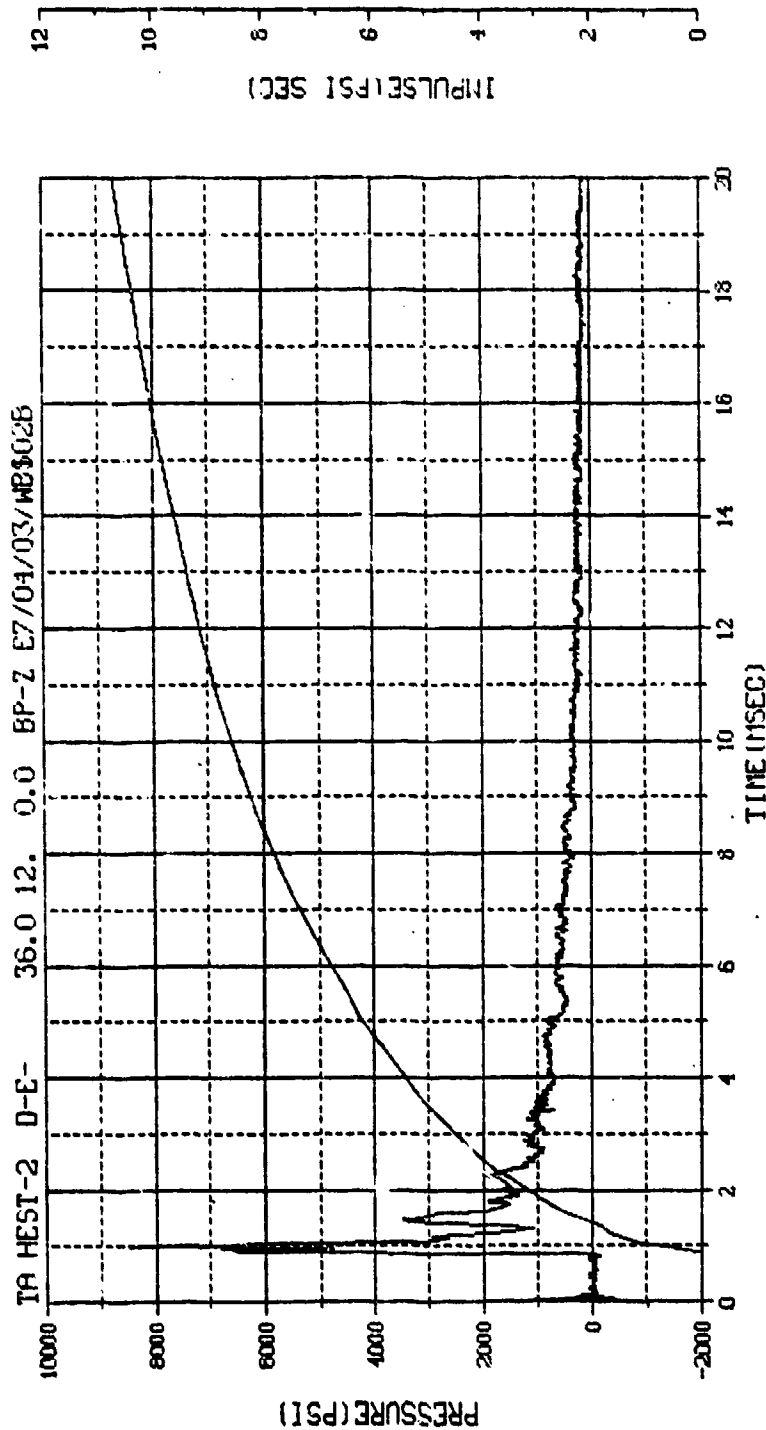
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 FILE = 42



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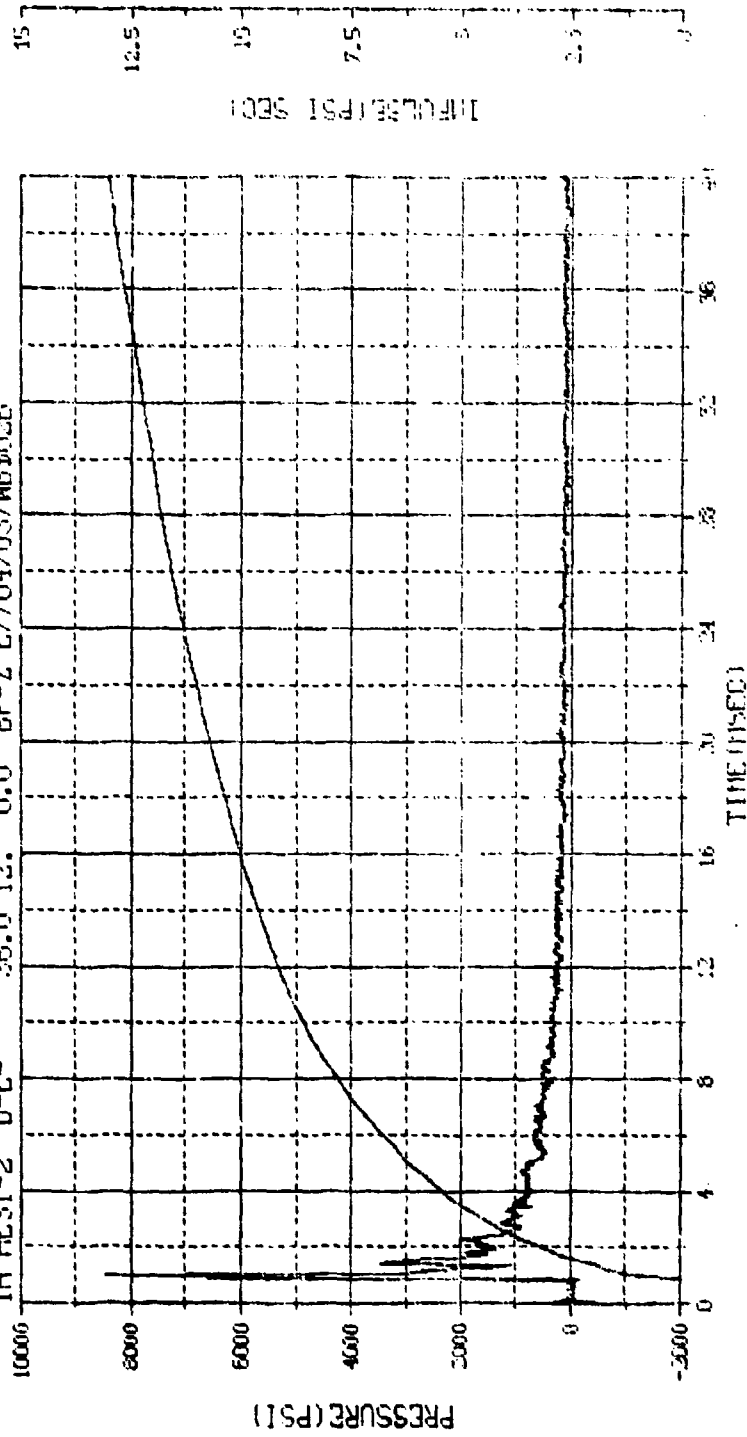


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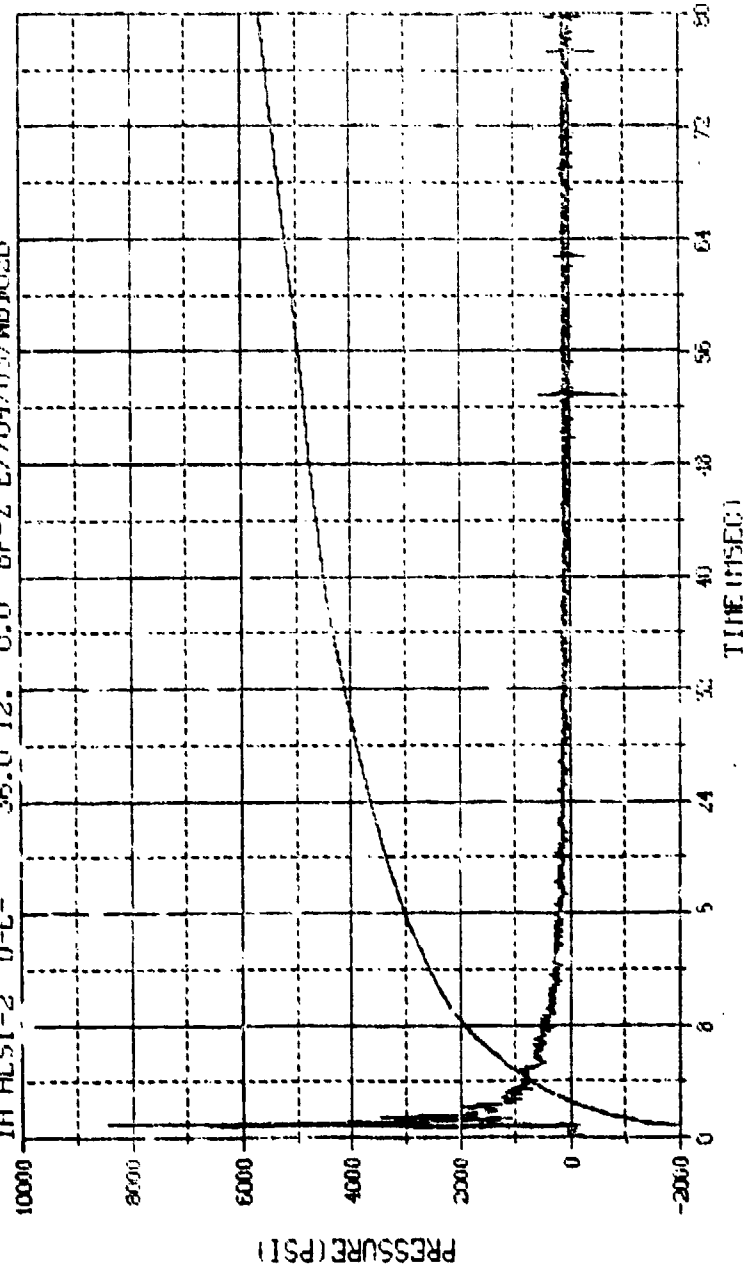
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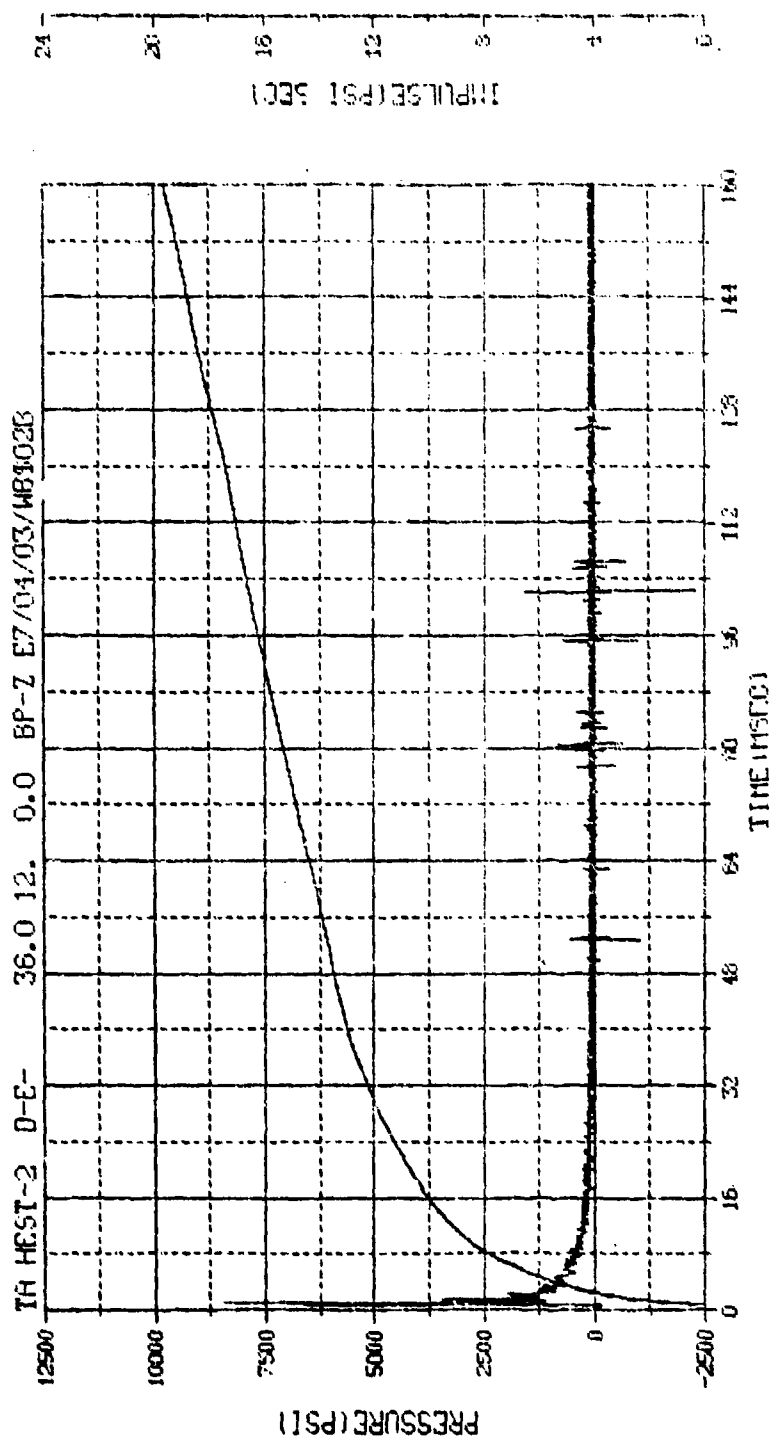
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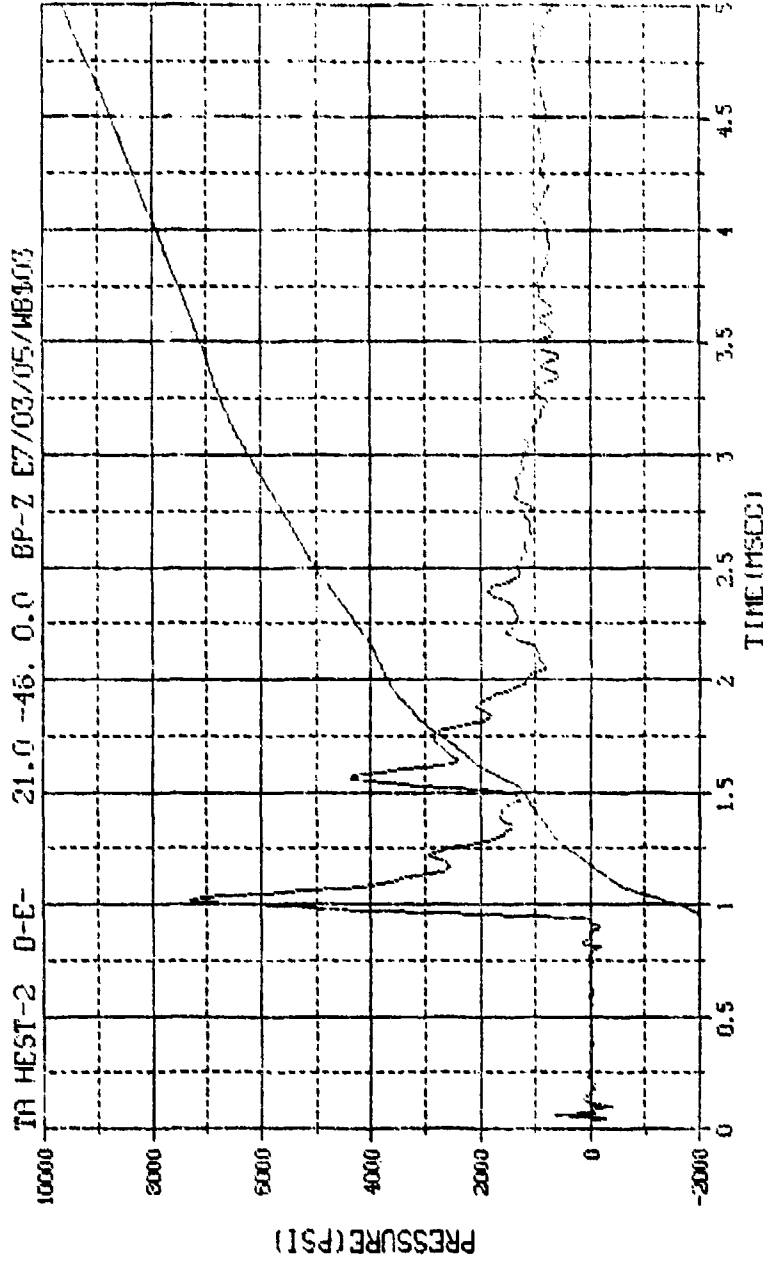
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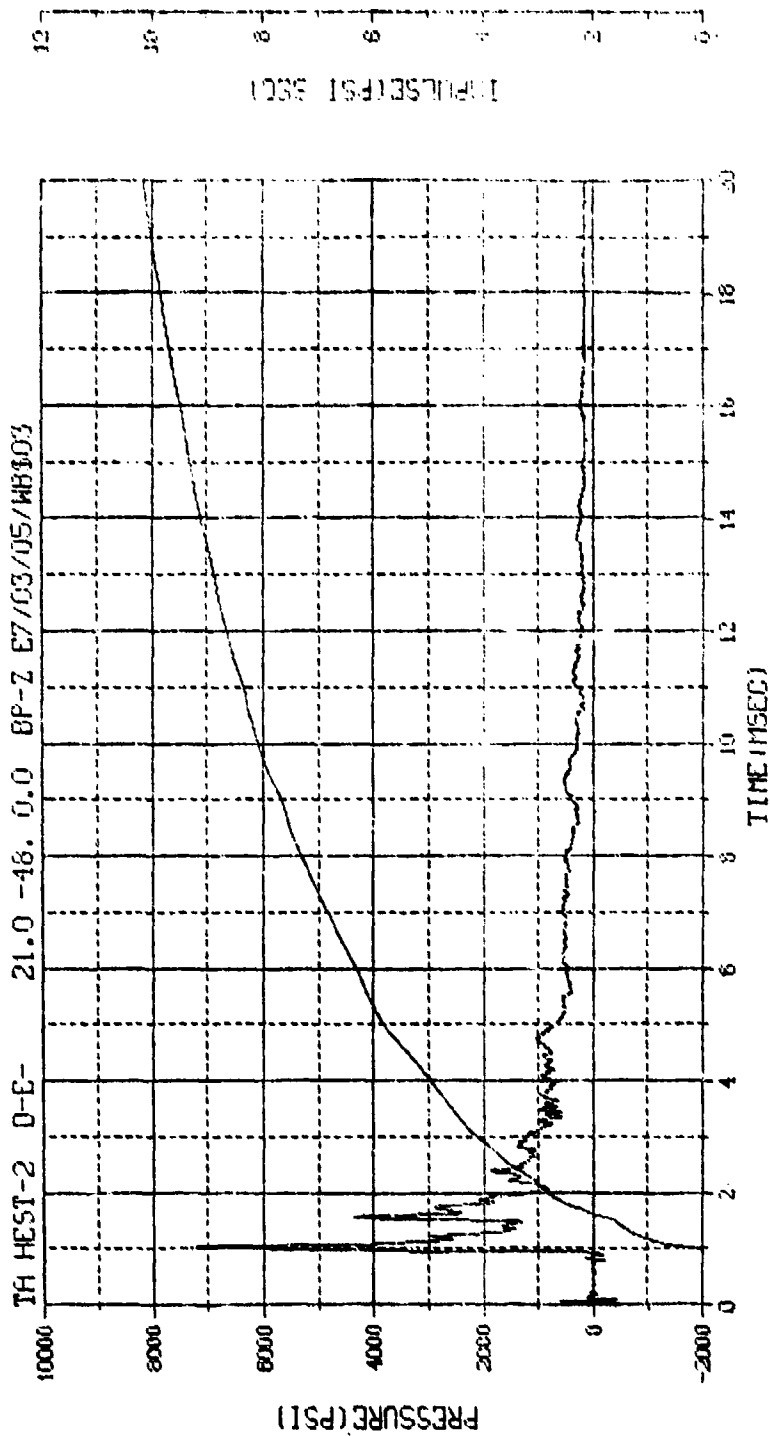
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VSN=
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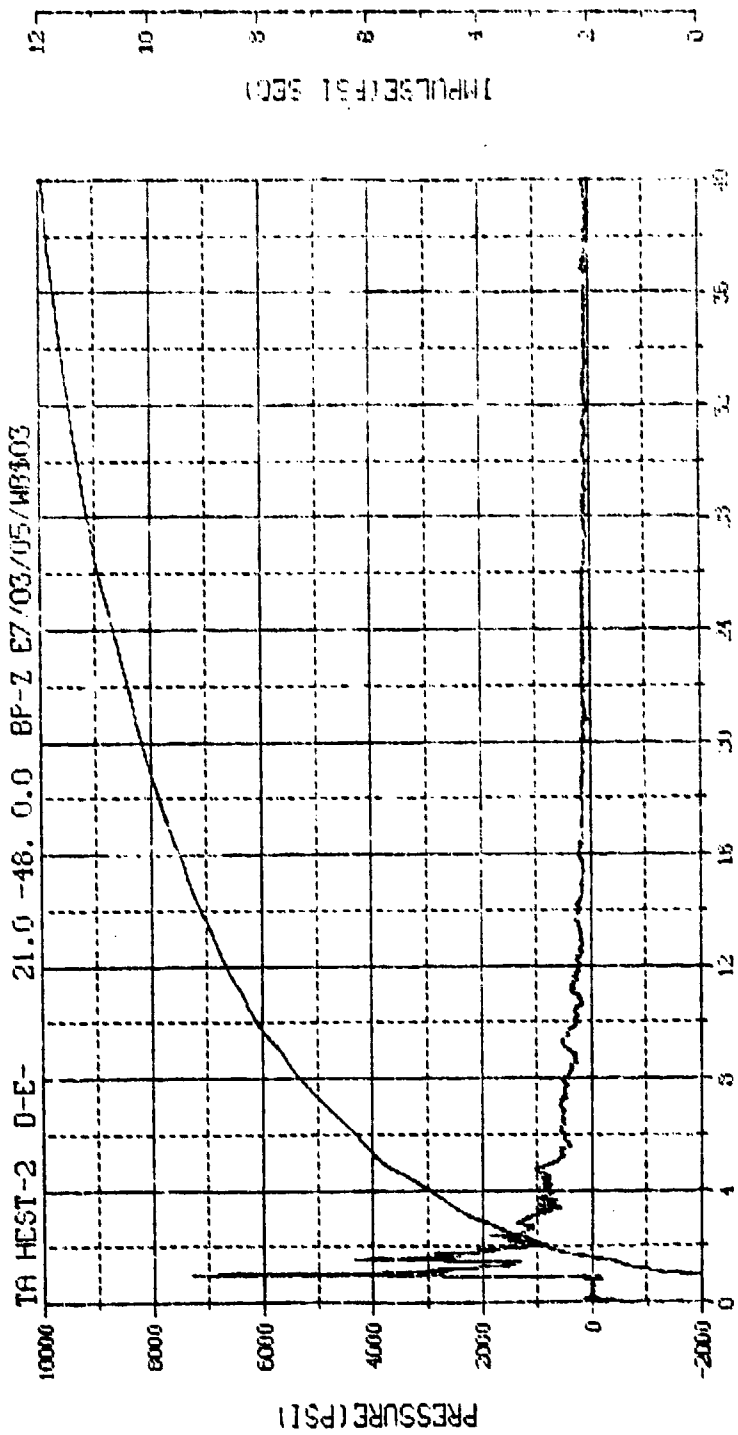


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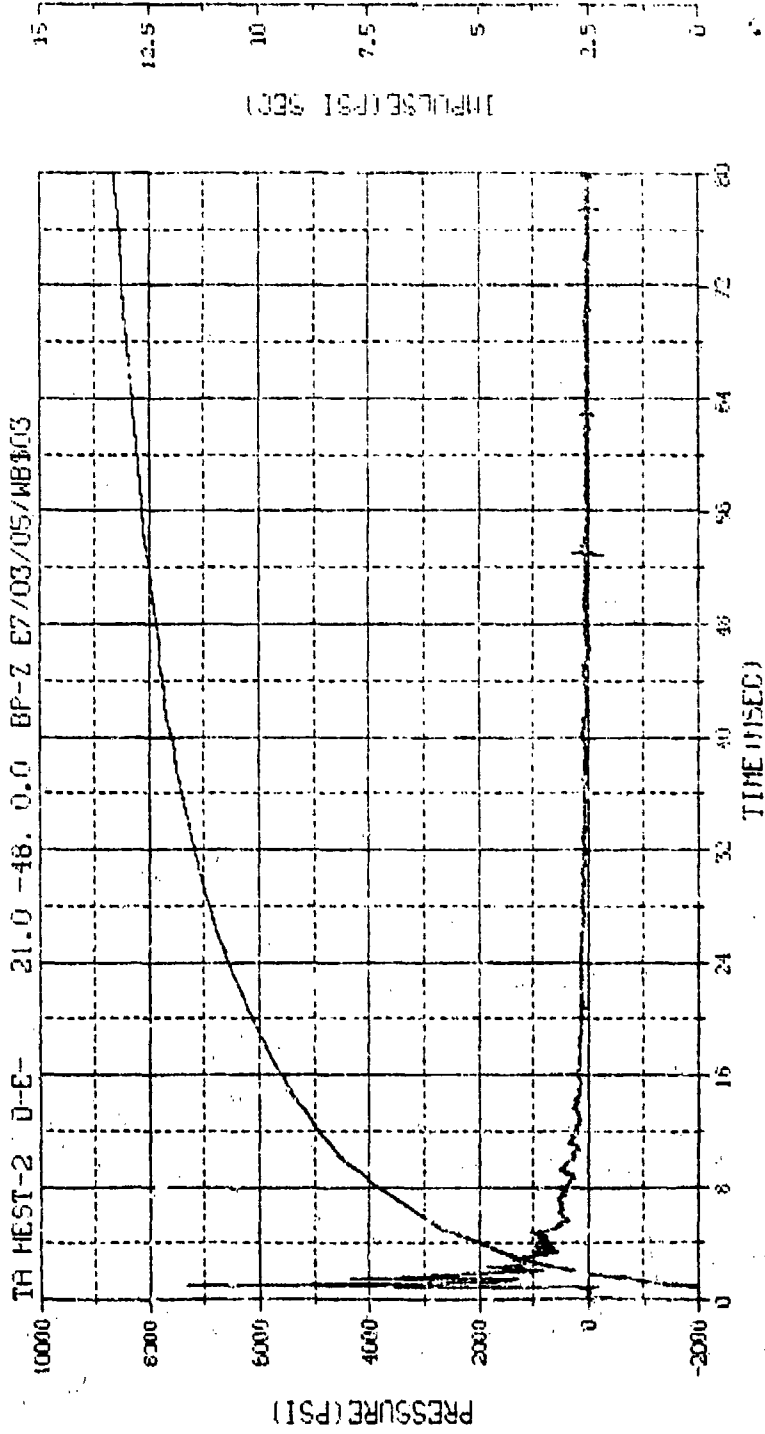
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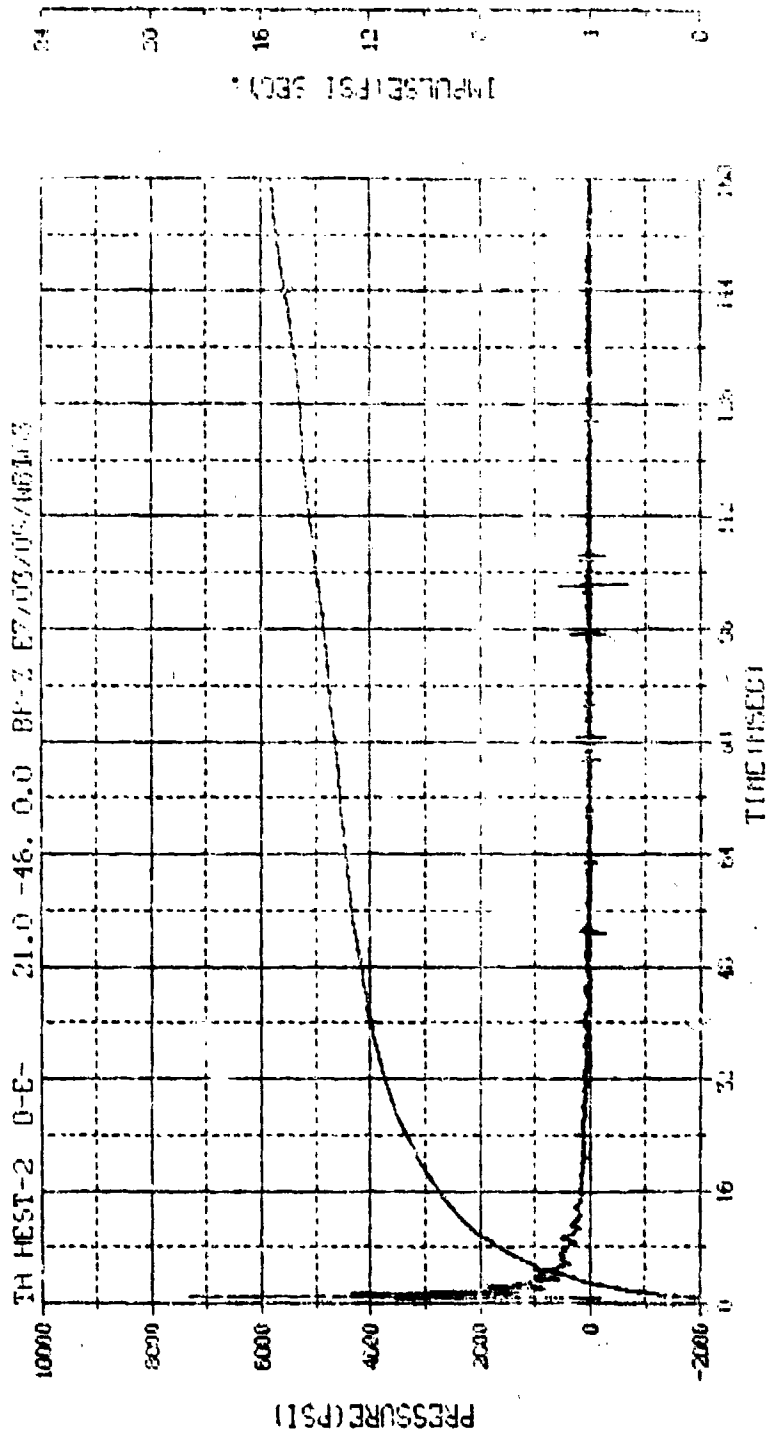
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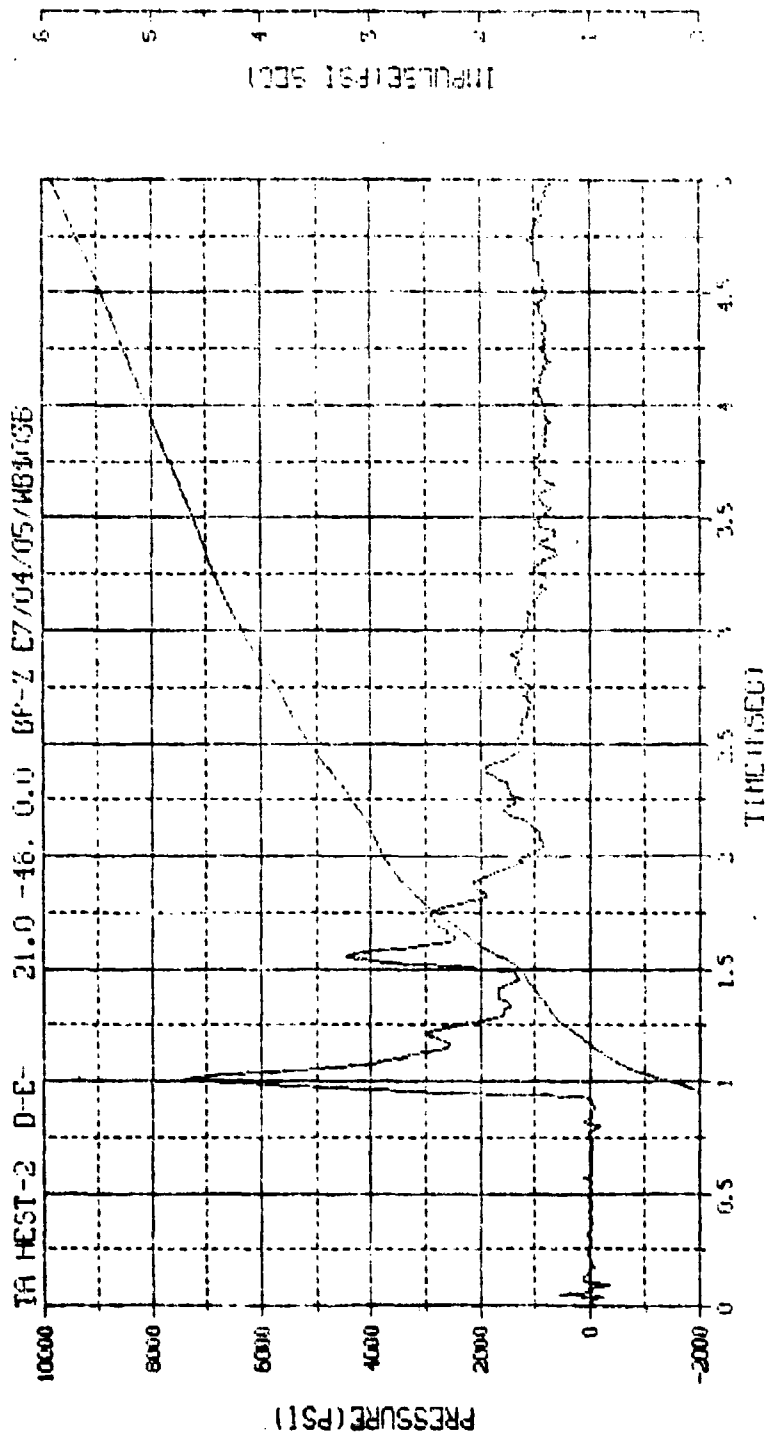
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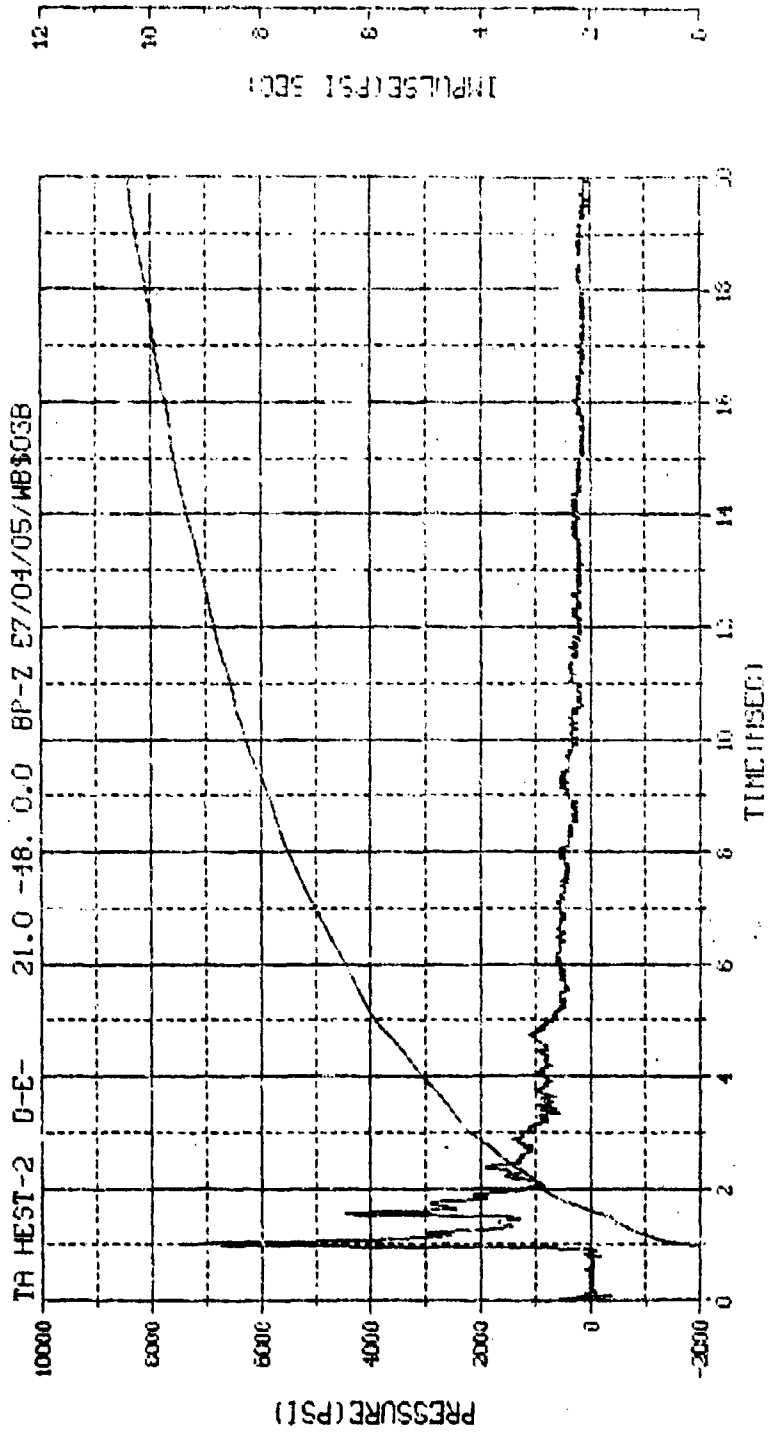
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 10 04 FH, 28 THR 7%
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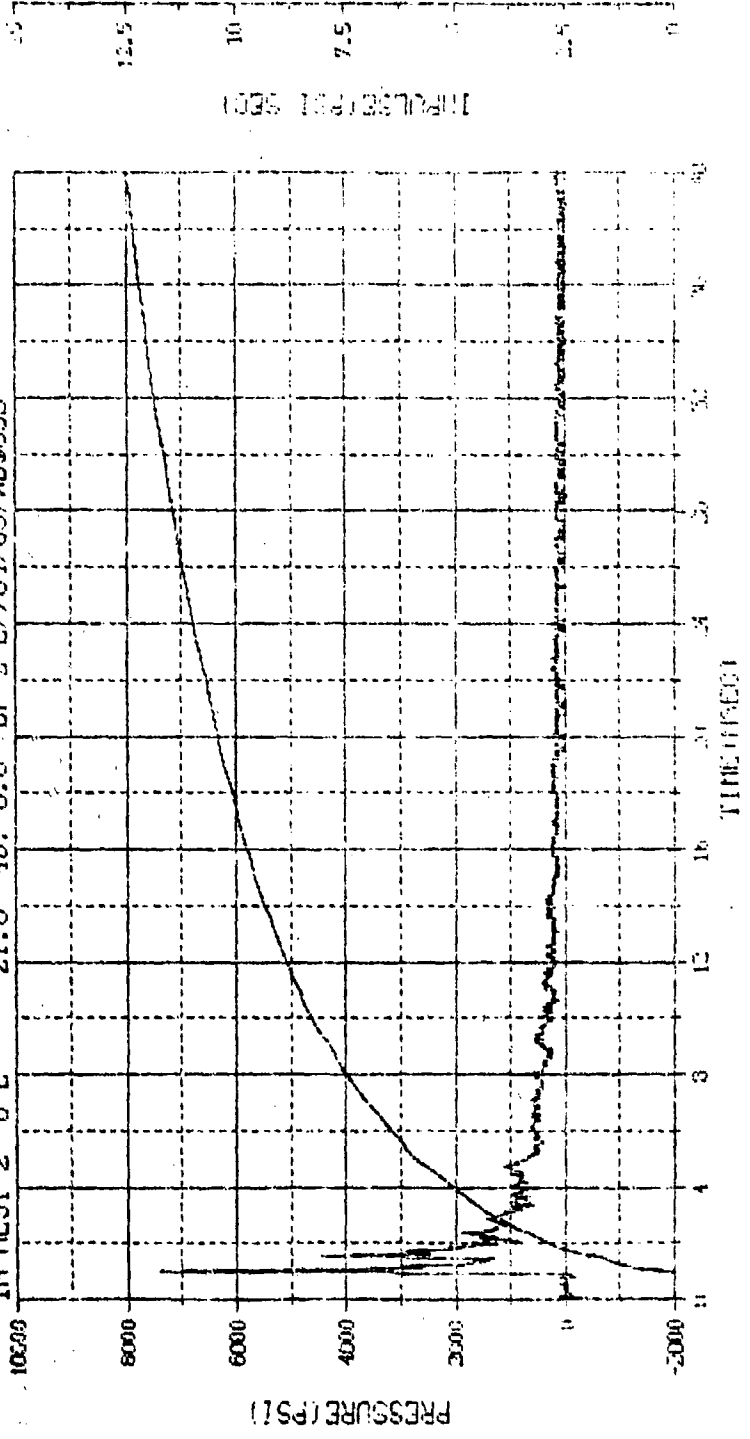


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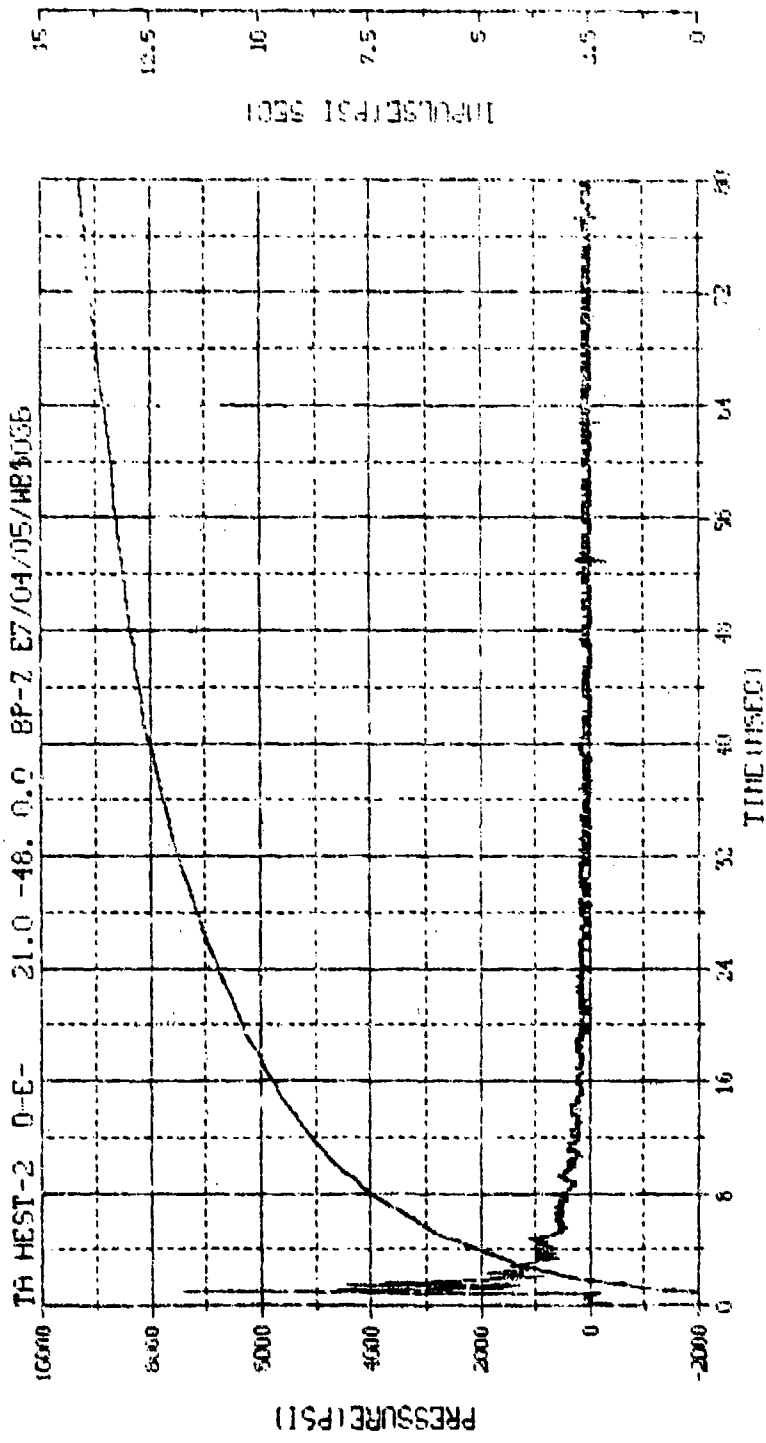
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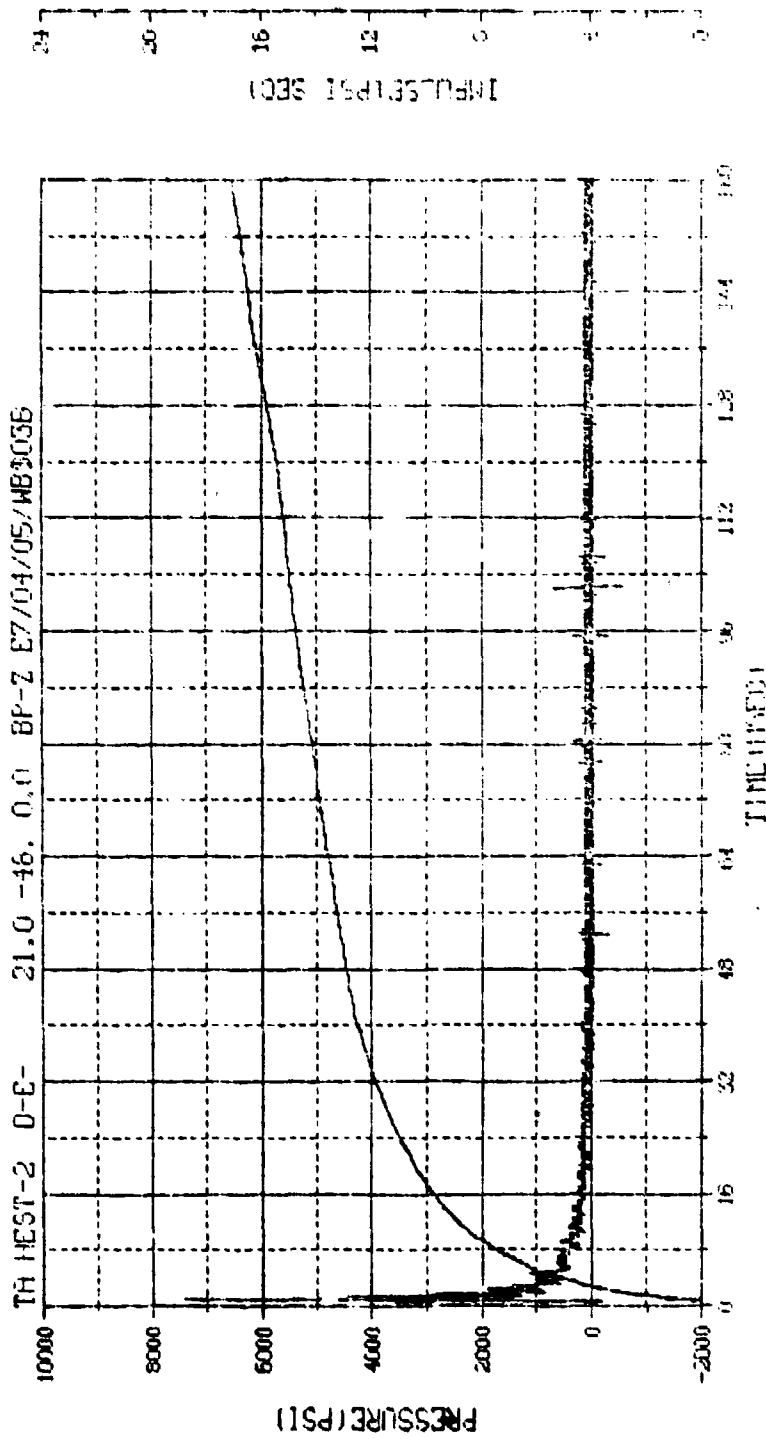


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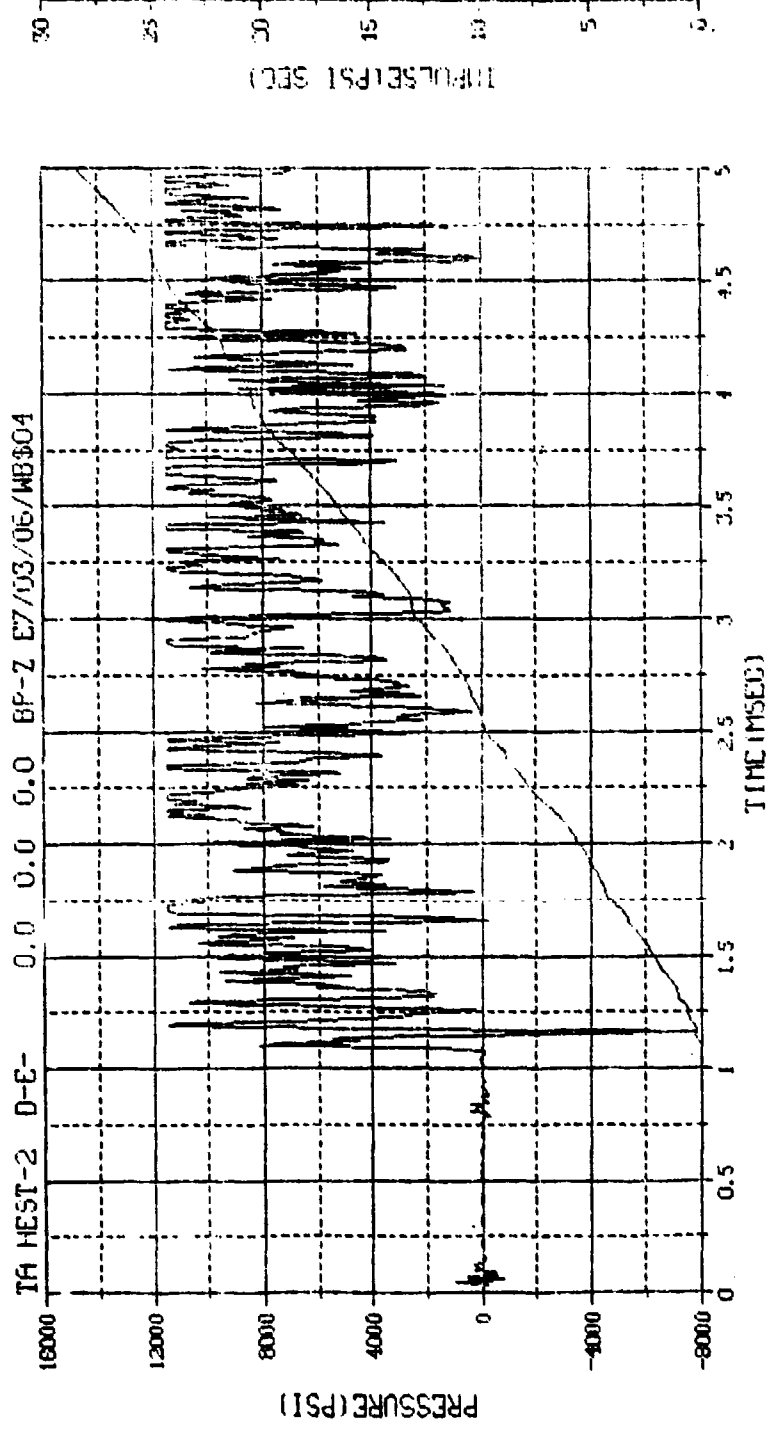
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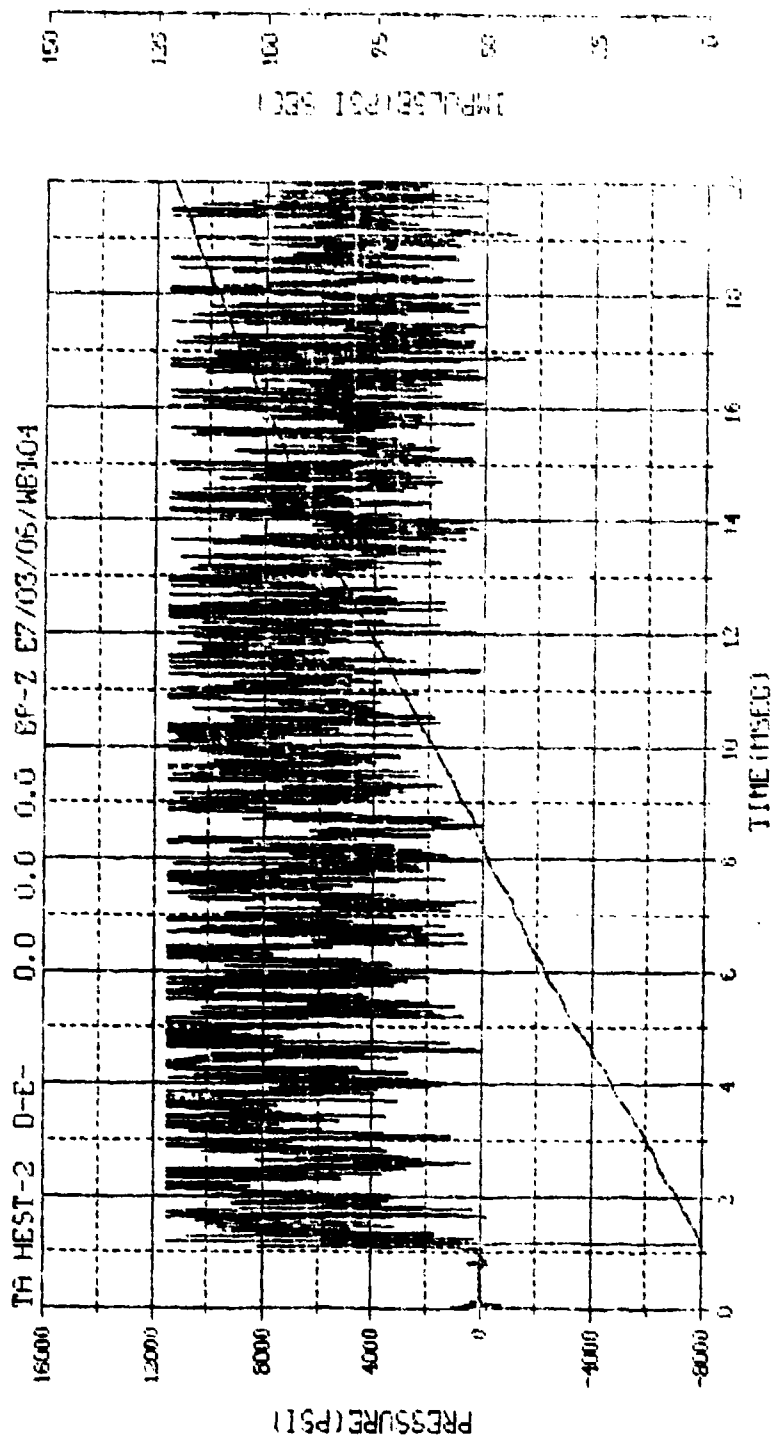
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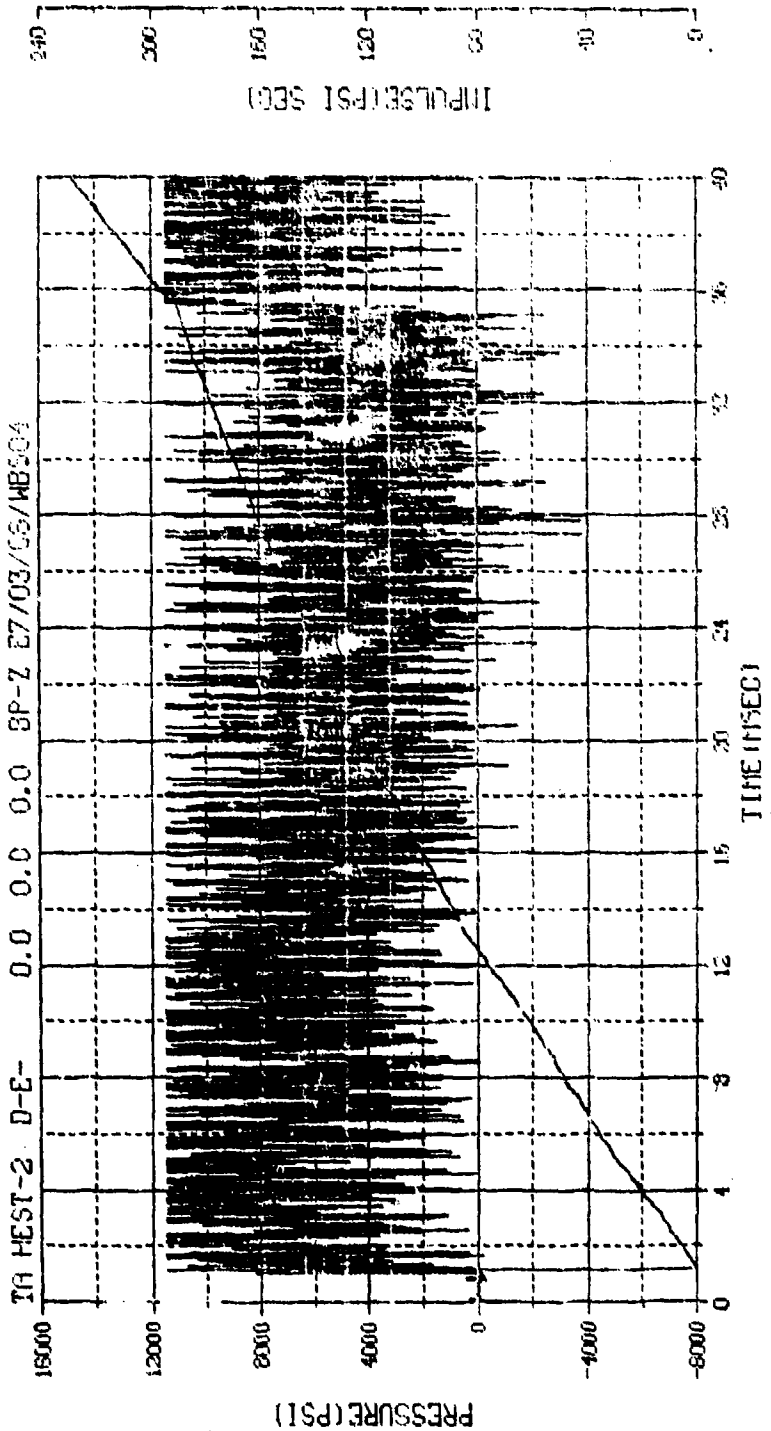
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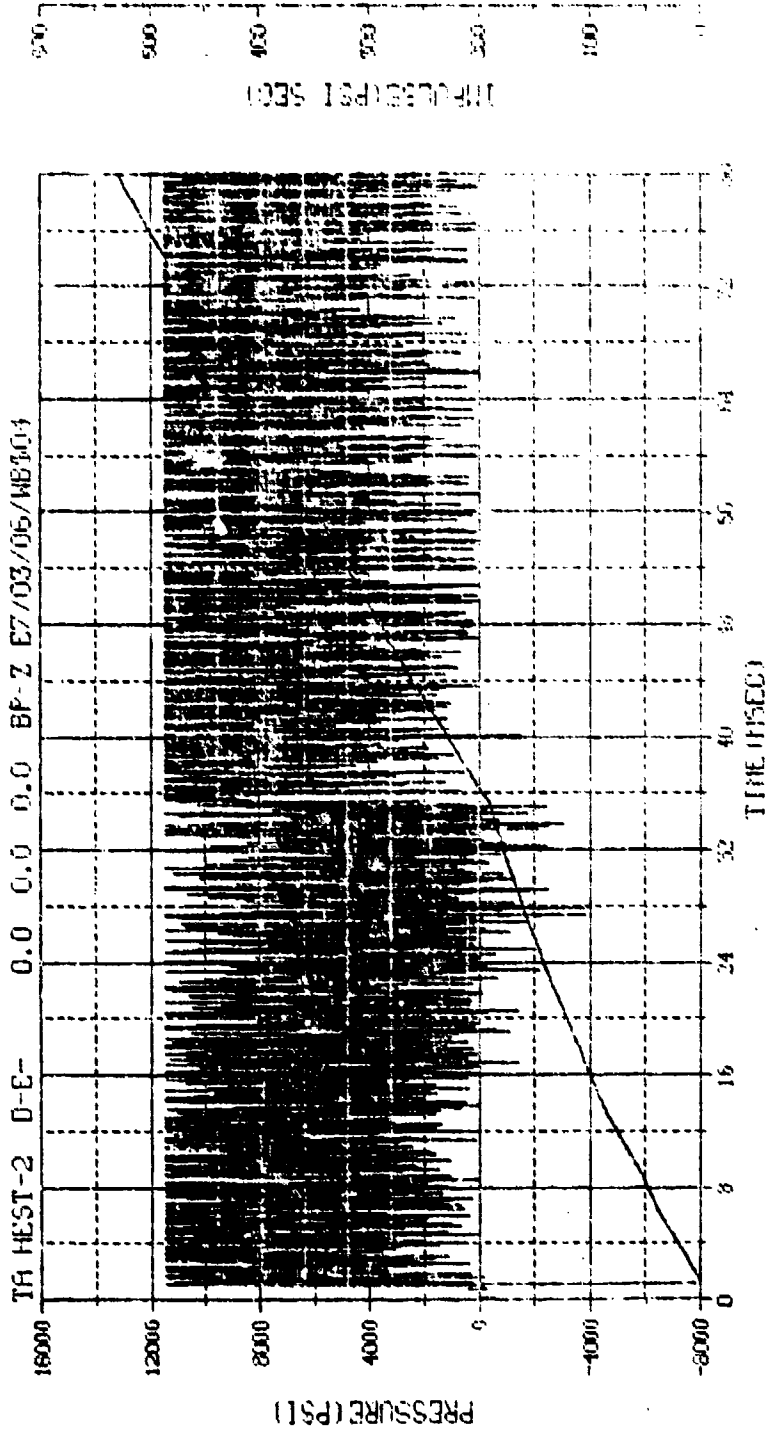
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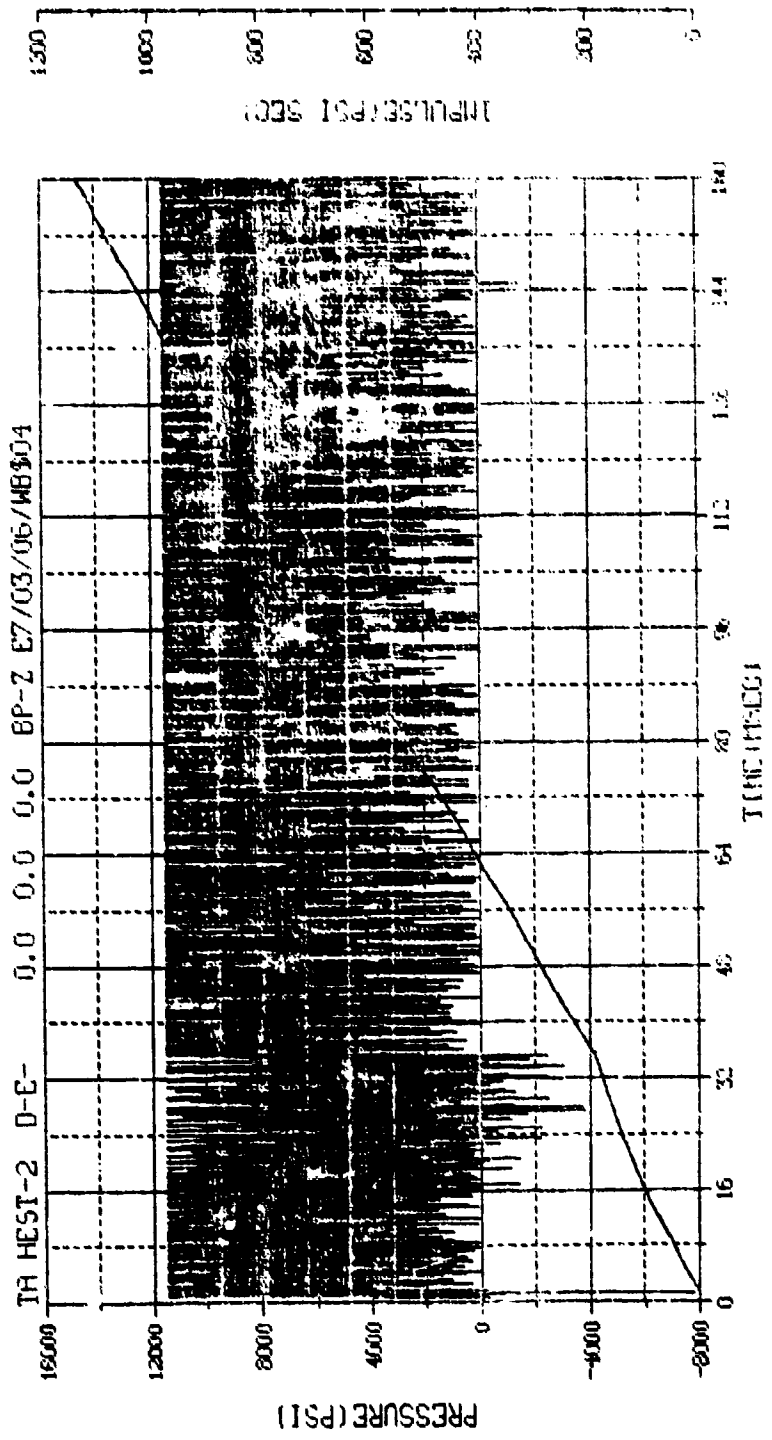


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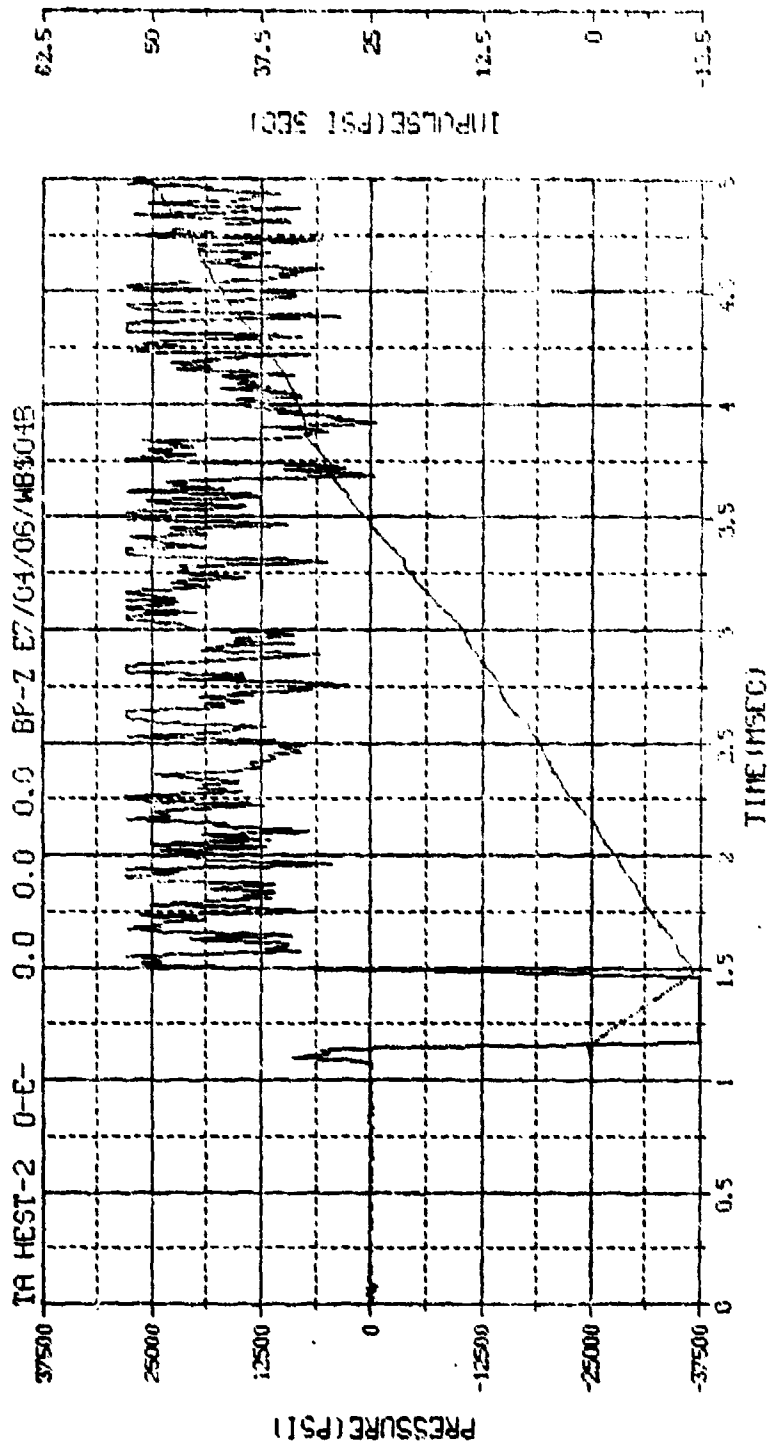


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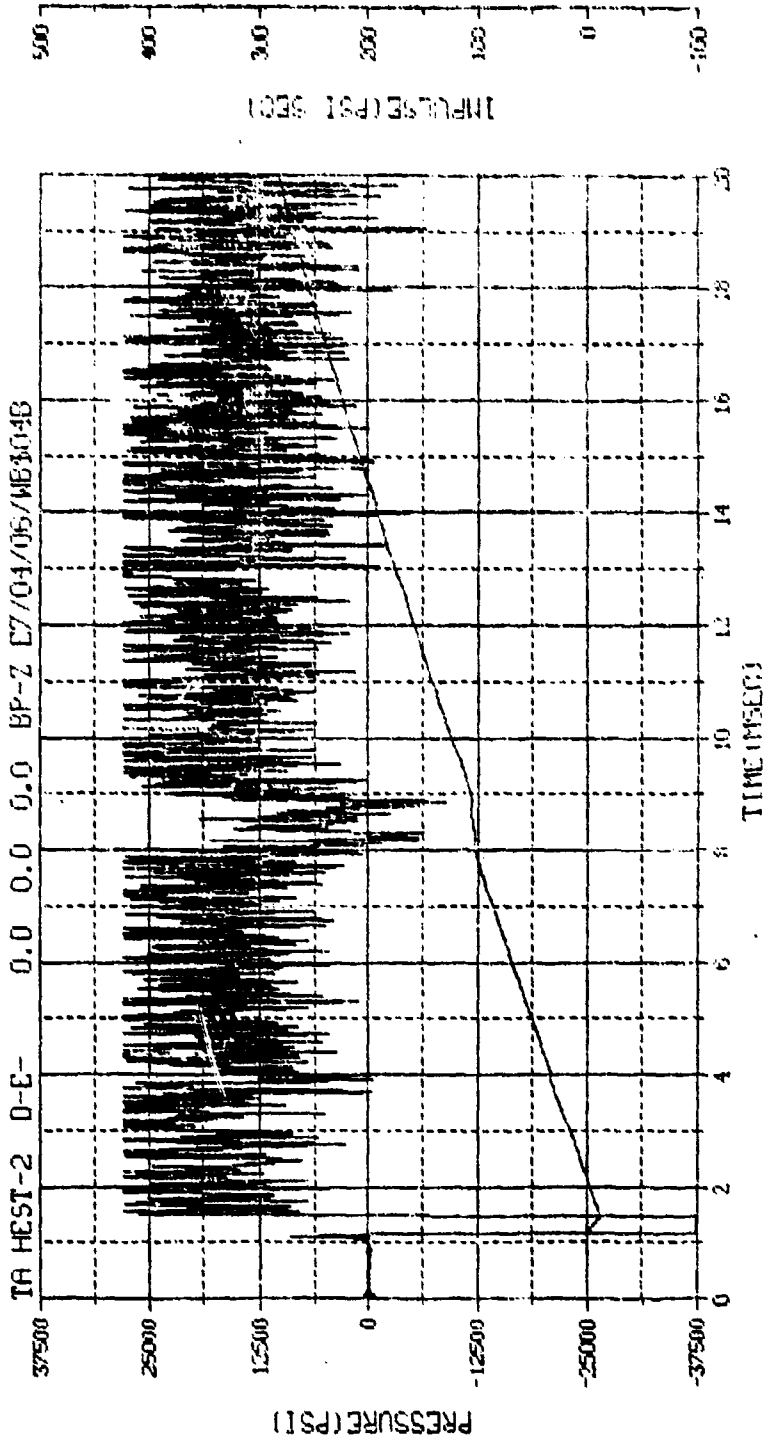
INTEGRATED (PSI SEC)



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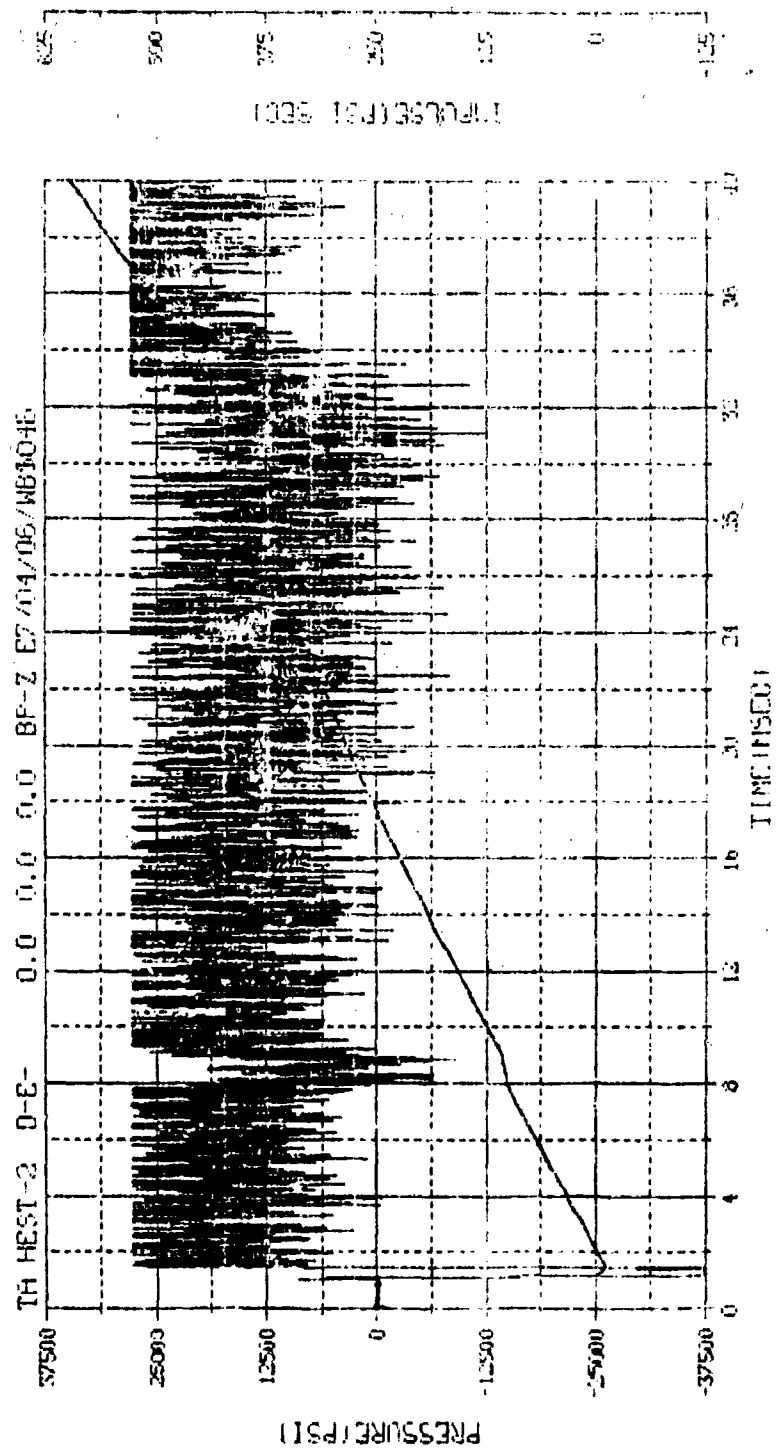


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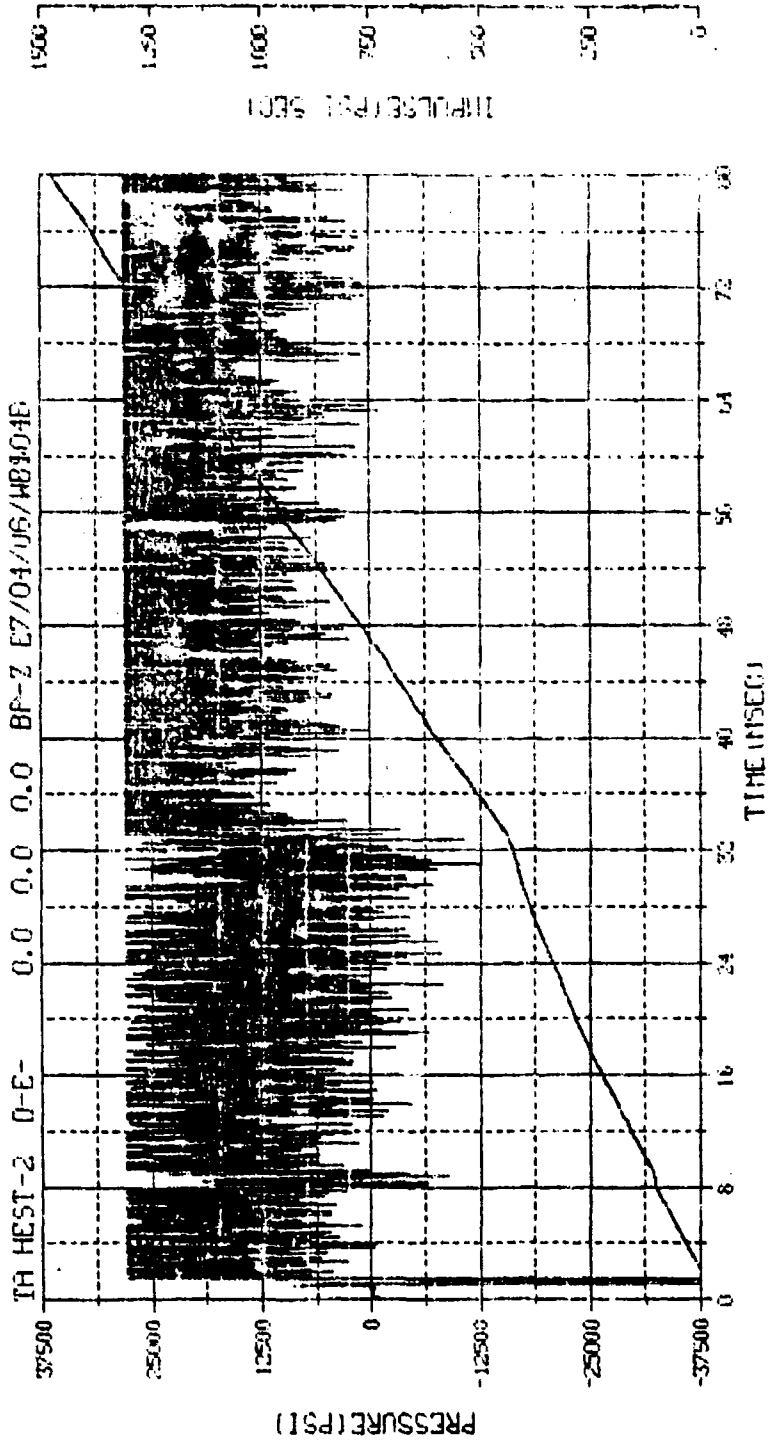
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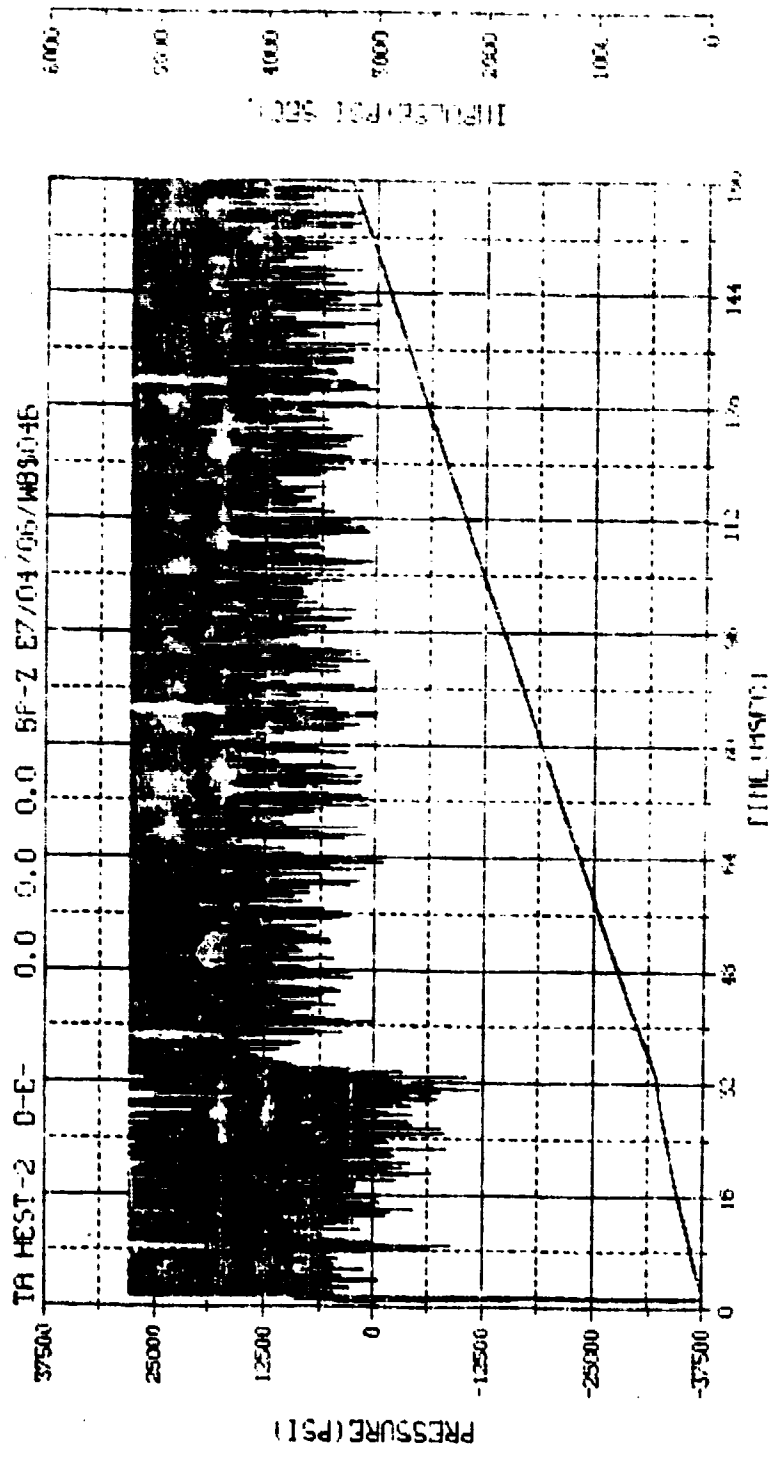
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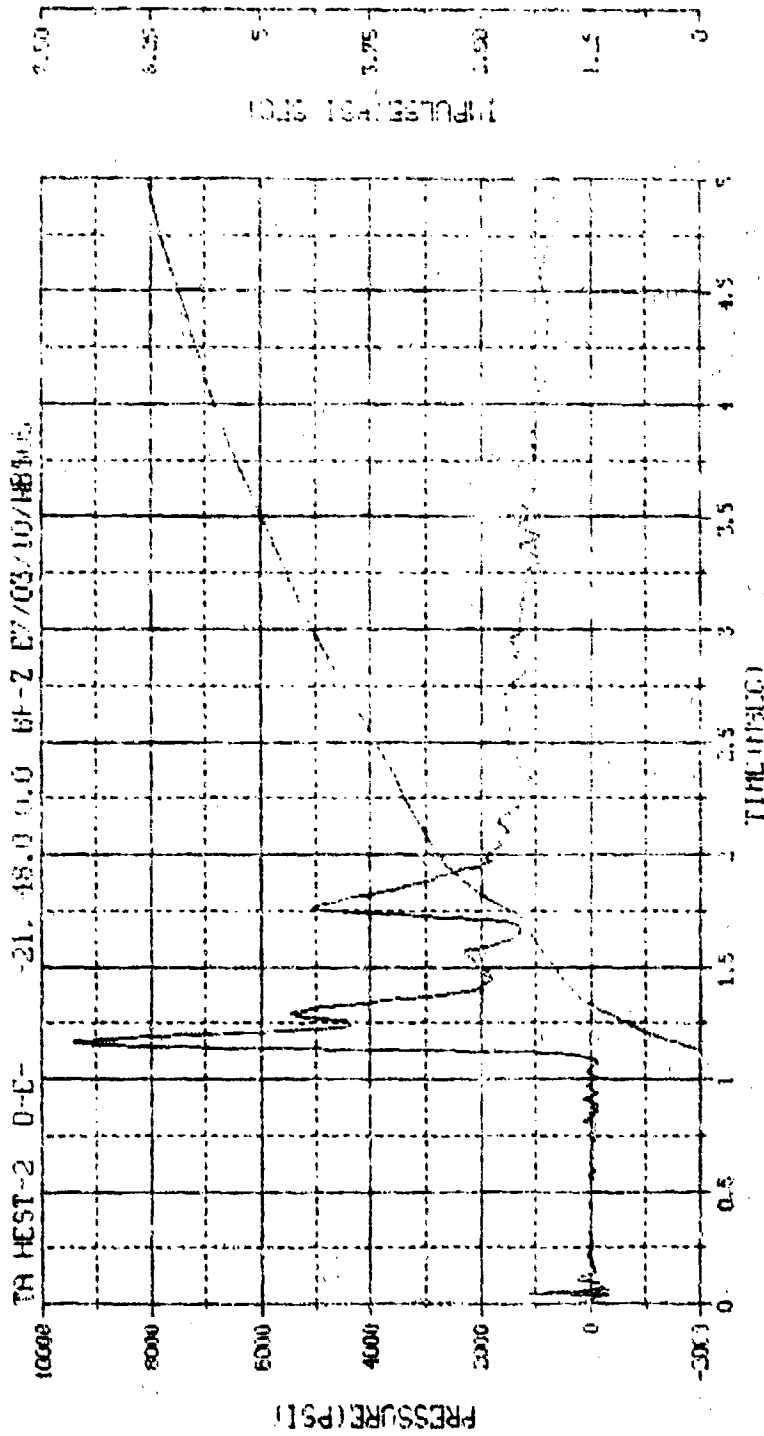
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TSKIP = 15.110	DIGITS = 0.000, 338.000	TAPE = 22
S.R. = 100.00 KHZ	10 04 PM, 28 MAR 70.	FILE = 62

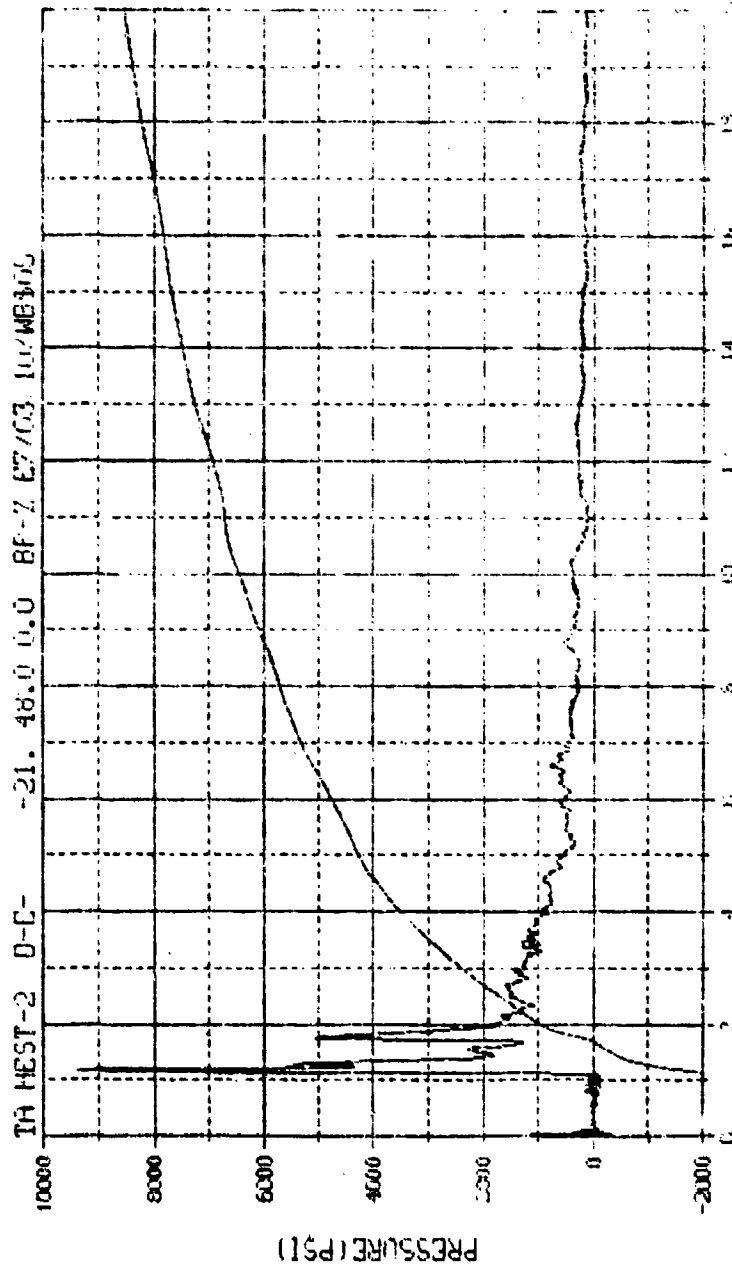


M.N. 4
 E.U. 0.0000000000
 VSN-
 TSK IP-15.110
 DIGITIZER (MM) 500.000
 S.R. -100.00 KHZ
 10 04 PM, 25 MAR 2006
 FILE 000



M.N. = 5 S.H. = 0.000, 5371.000 VSN =
 TSKIP = 15.100 DISTPS = 0.000, 2.00, 5.00 TIME22
 S.M. = 100.00 KHZ TO DA PM.26 DRK 70. FILE=86

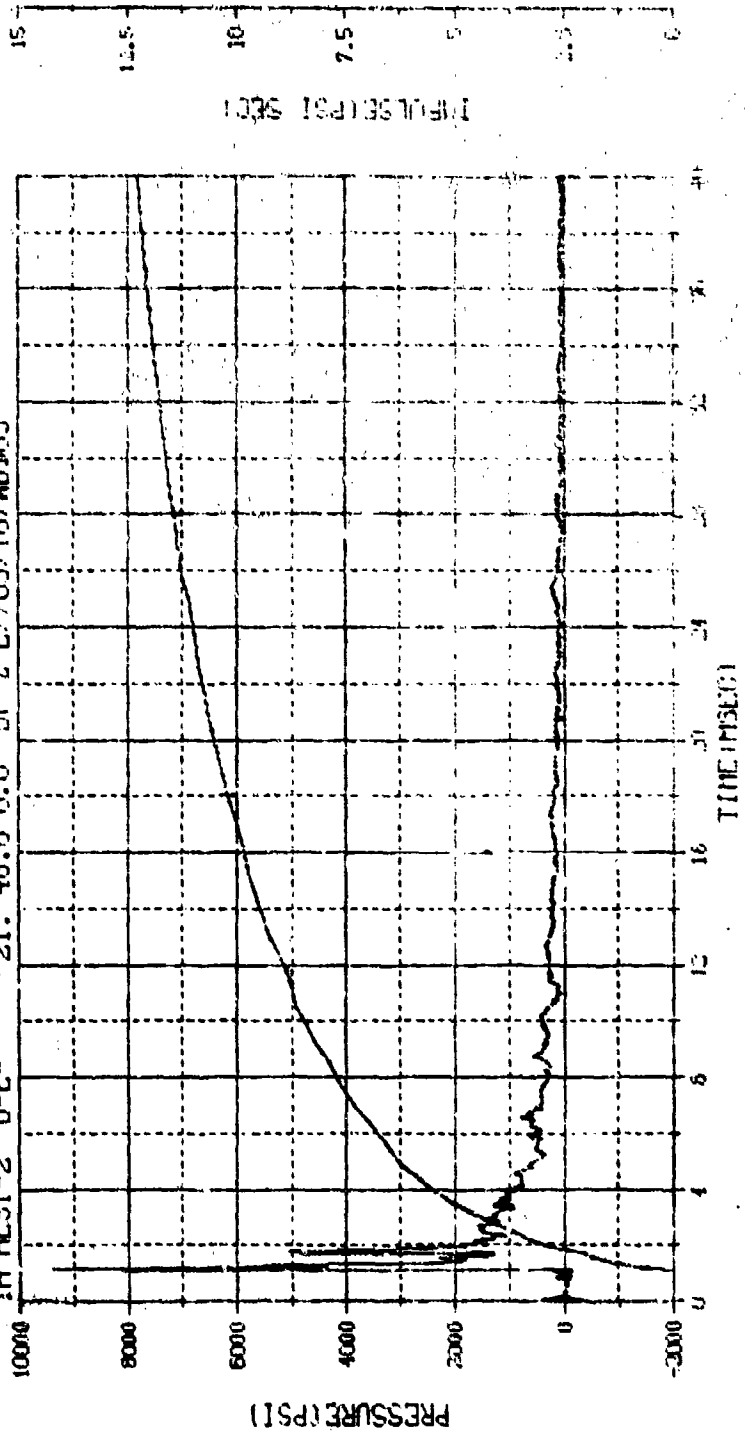
TA HEST-2 D-C- -21. 48.0 0.0 BF-2 E7/C3 10/WB100



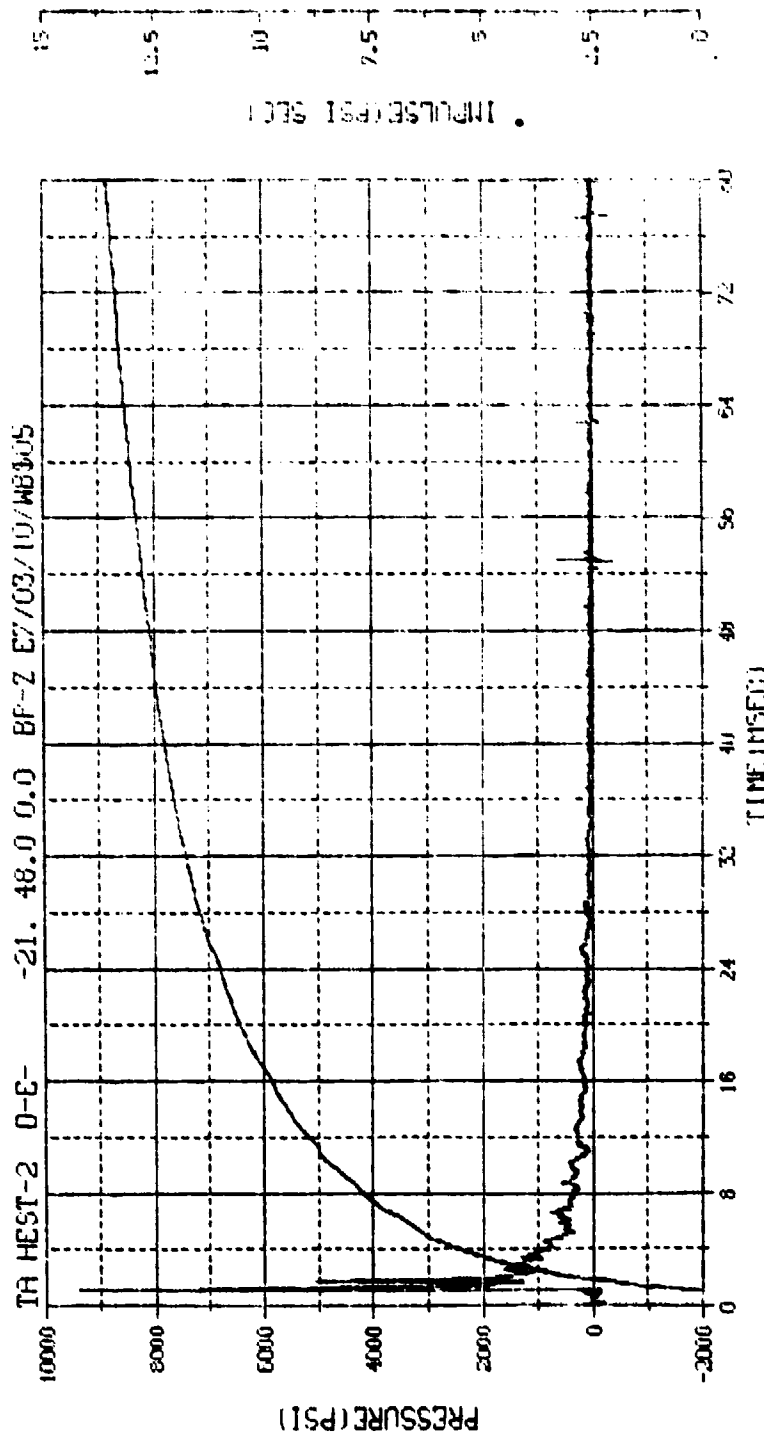
119059 (REV) SEC

M.N. " 5
 C.U. -0.000, 1.000, 1.000 VSN
 TSK IP=15.100 DUTY=0.000, 2.000, 1.000 THP=0.0
 S.R. -100.00 MHZ 10 (M) FM, 3, 000 200 FILE=00 1

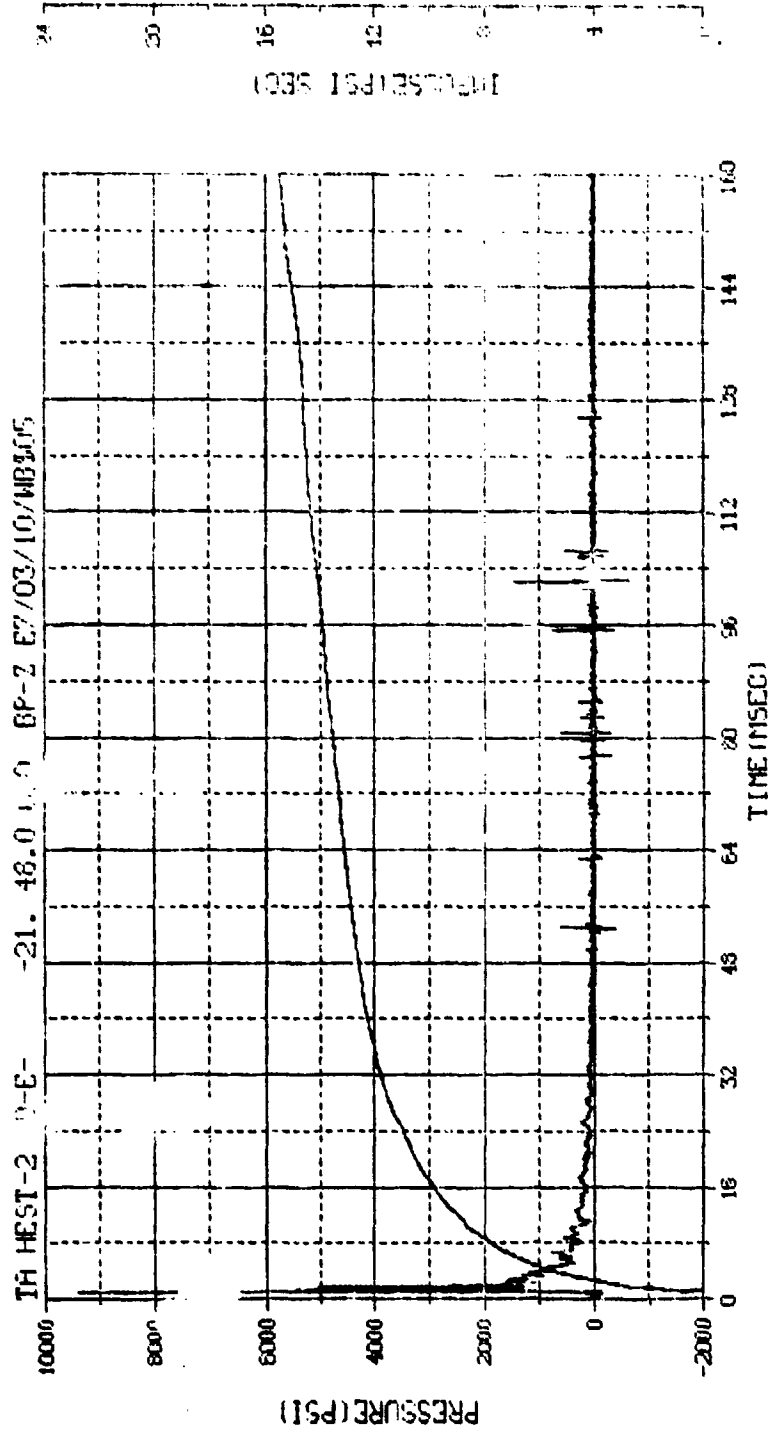
JA HEST-2 0-E- -21. 48.0 0.0 EP-Z E7/03/16/WB\$15



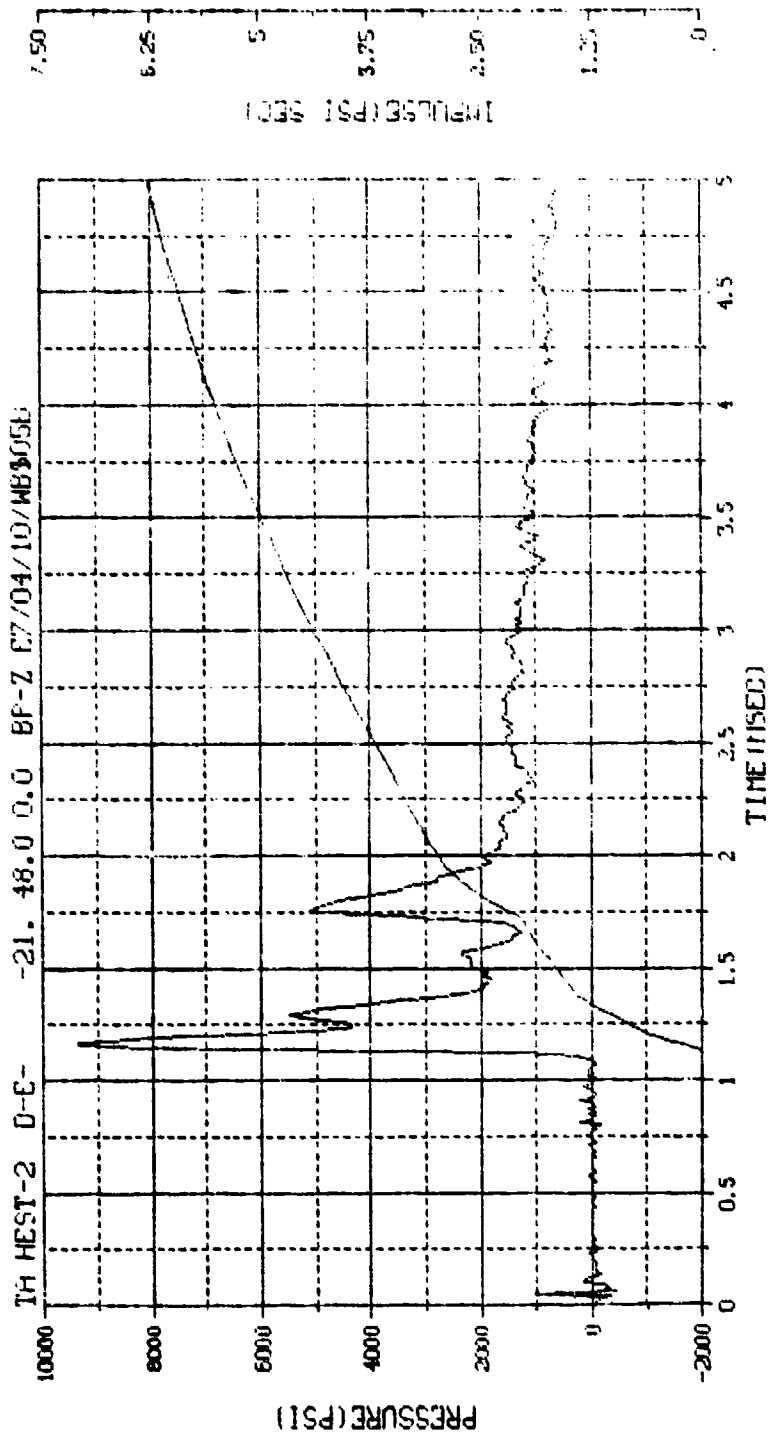
M.N. = 5	E.U. = 0.000, 0.000	VAL =
TSKIP = 15.100	DIGITS = 0.000, 7.000	TAPES =
S.R. = 100.00 KHZ	10 04 PM, 28 MAR 73	FILE = 48



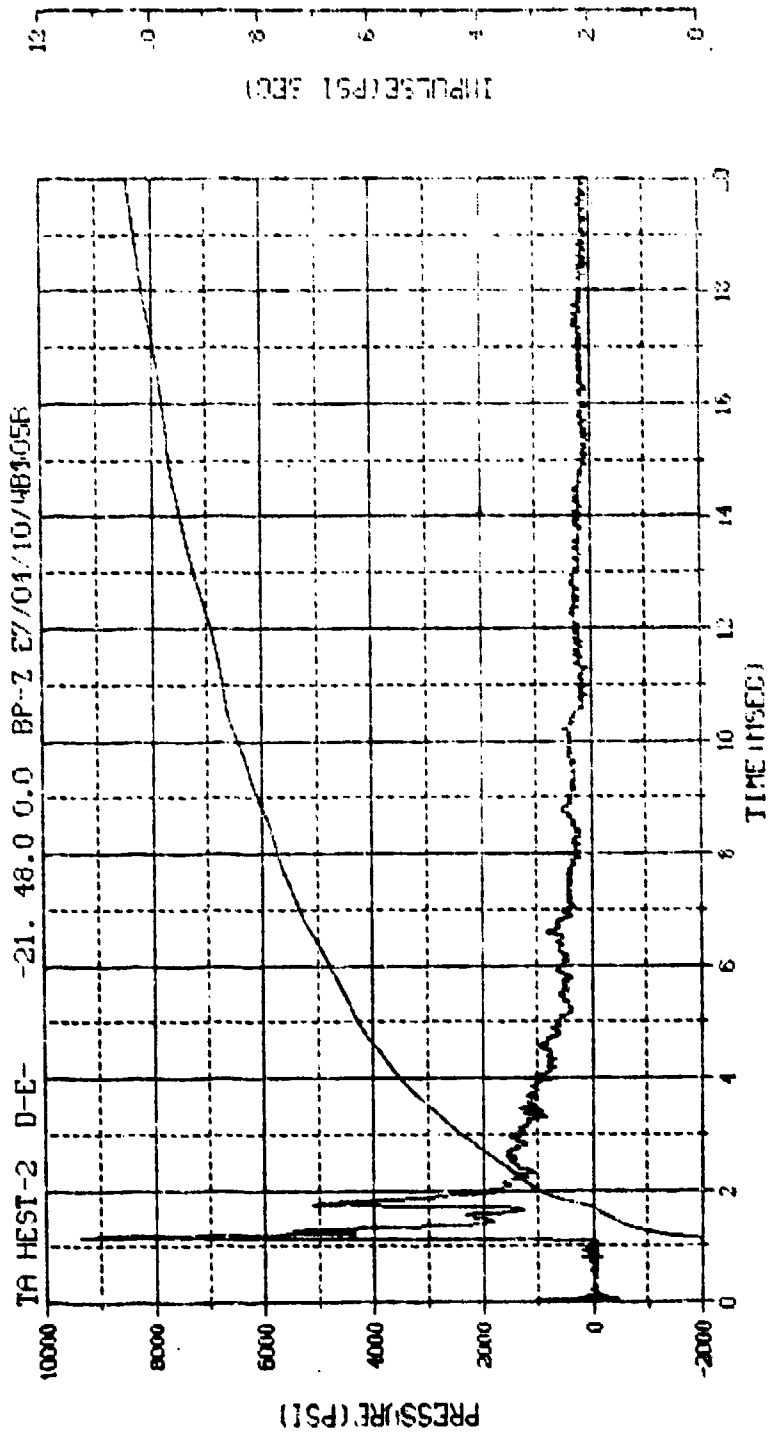
M.N. = 5	E.U. = 0.000, 5.371, 0.00	VSN-
TSK (P=15.100	DIST (P=0.000, 7.221, 0.00	TIME=
S.R. = 100.00 KHZ	10 04 PM, 38 MHR 70.	FILE=48



M.N. = 5 E.U. = 0.000, 5371.000 VSN= TAPED
 TSKIP=15.100 DIGITS=0.000, 122.500
 S.R. = 100.00 KHZ 10 04 PM, 28 MAR 78. FILE=46



M.N. = 5 E.U. = 0.000, 5371.000 VSN
 TSKIP = 15.110 DIGITS = 0.000, 206.000 TAPED
 S.R. = 100.00 KHZ 9 00 AM, 29 MAR 78. FILE = 64

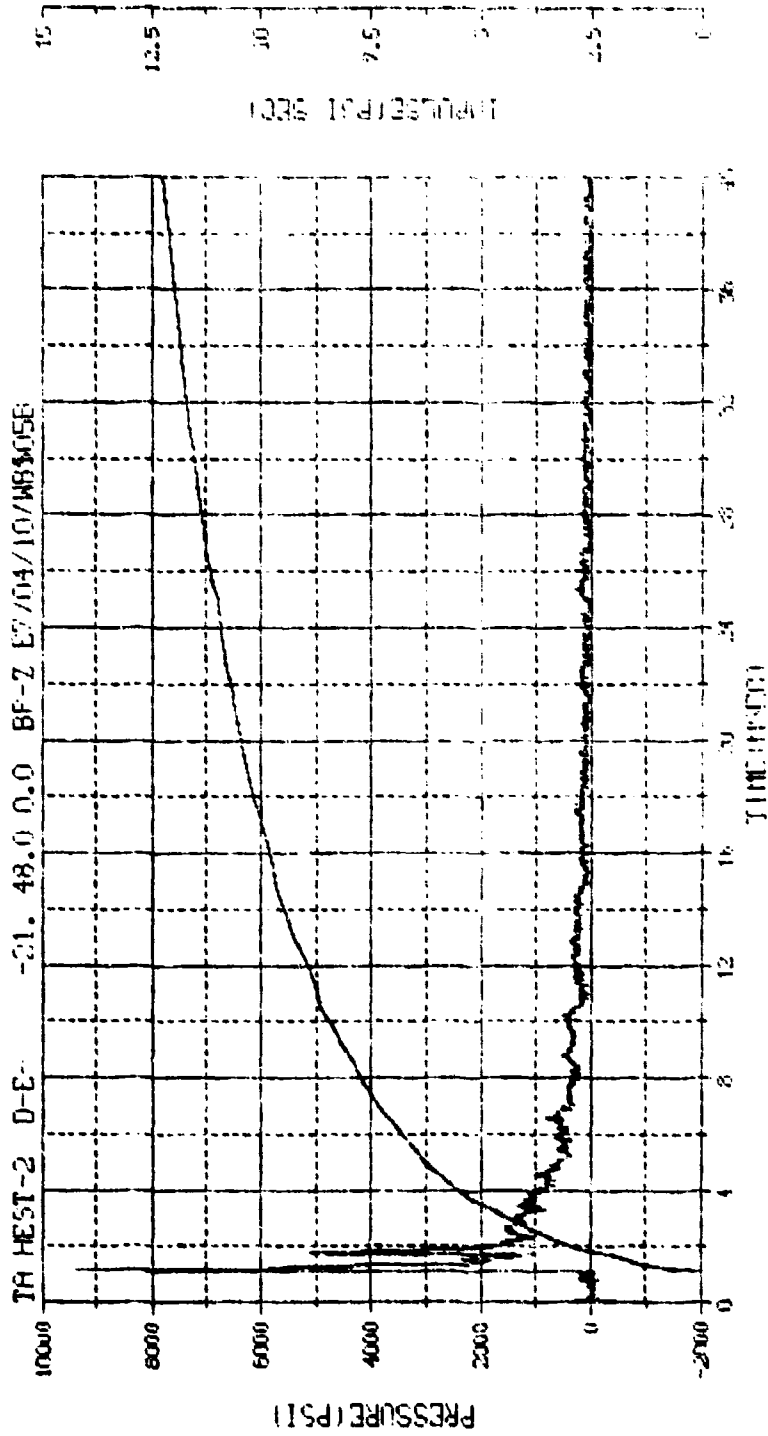


M.N. = 5
 TSKIP=15.110
 S.R. =100.00 KHZ

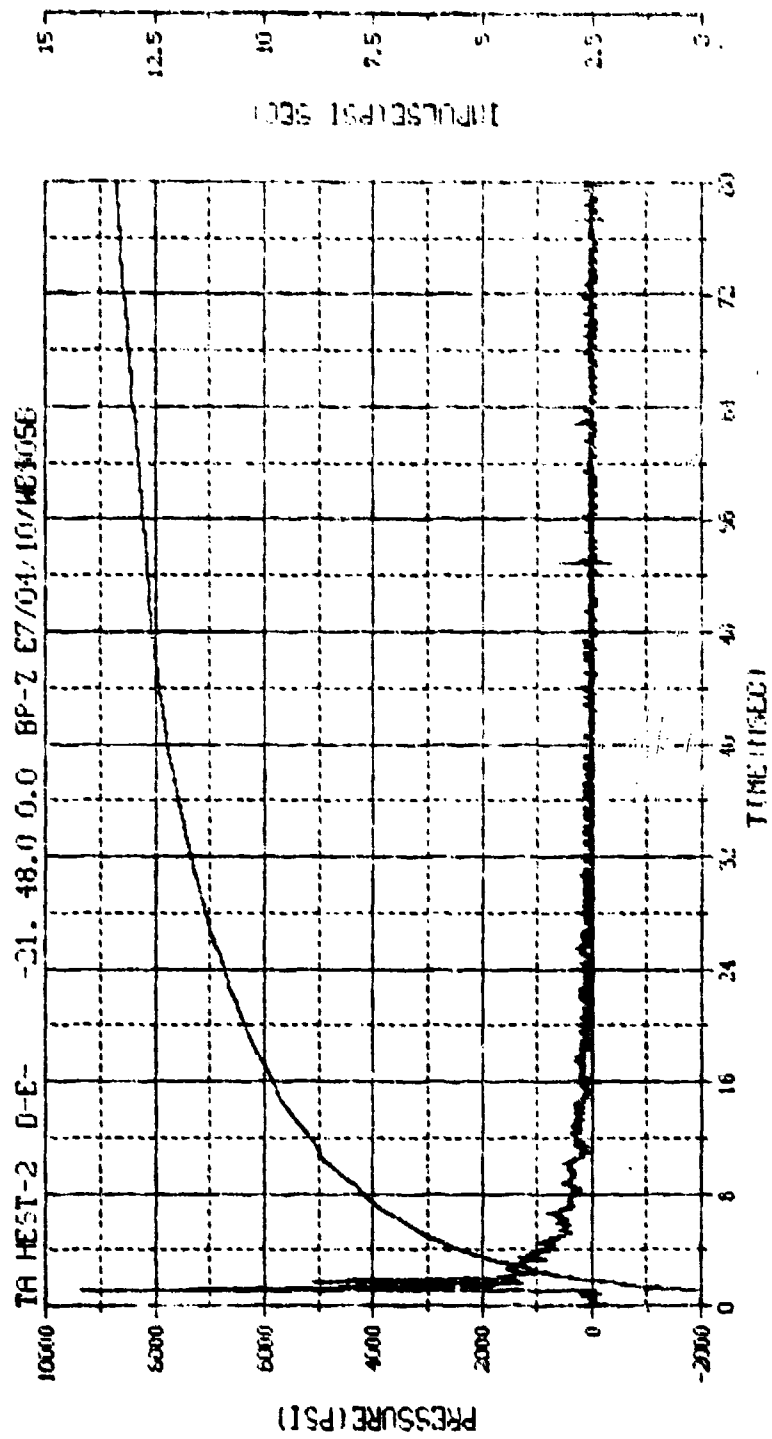
E.U. =0.000, 1371.000
 DIGITS=0.000, 206.000

9 00 AM, 29 MAR 75.

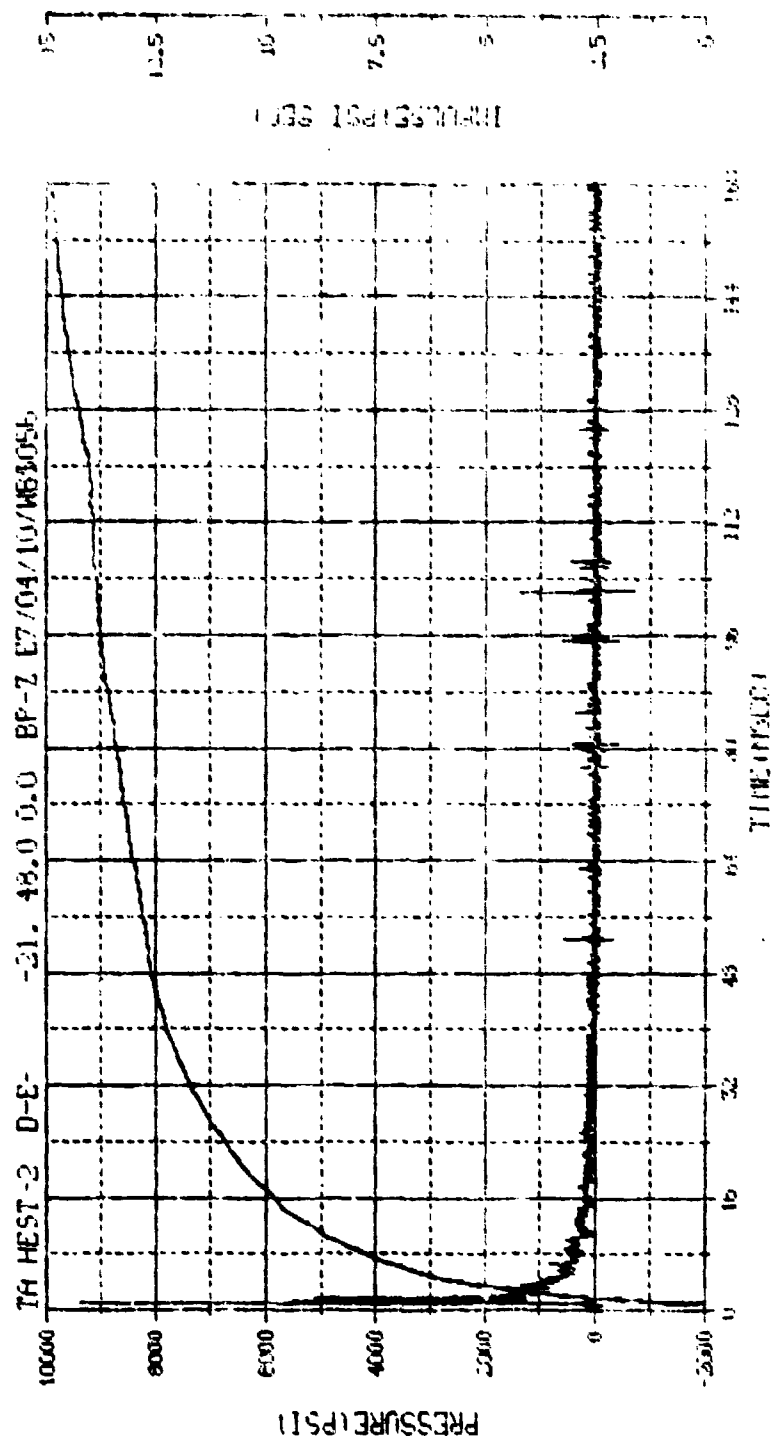
VSN-
 TRAC22
 FILE=6A



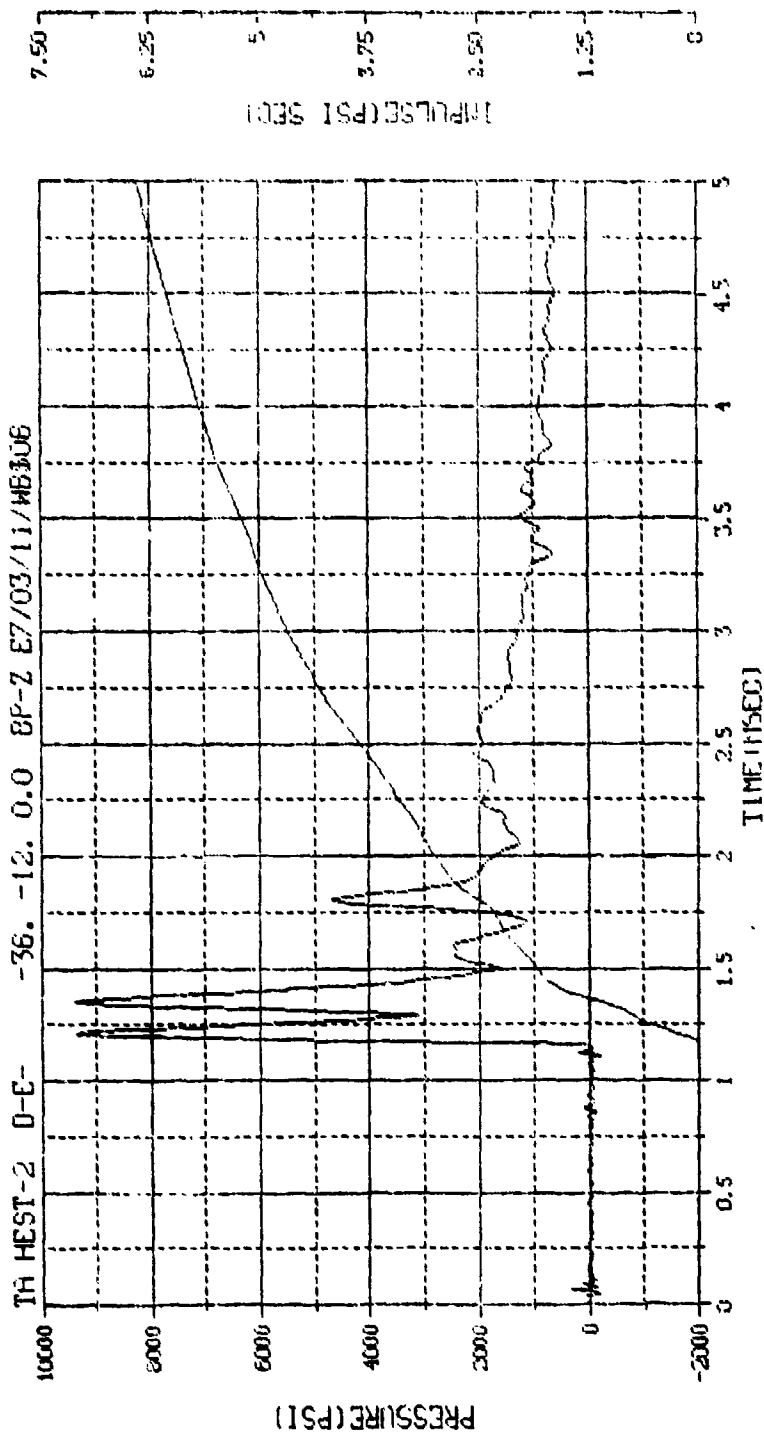
M.N. = 5	P.L. = 0.0000000000	V.M.
TSP P = 15.110	SHIFT = 0.0000000000	TIME
S.F. = 100.00 HZ	TO GO (H.S. 148.70)	FILE 14



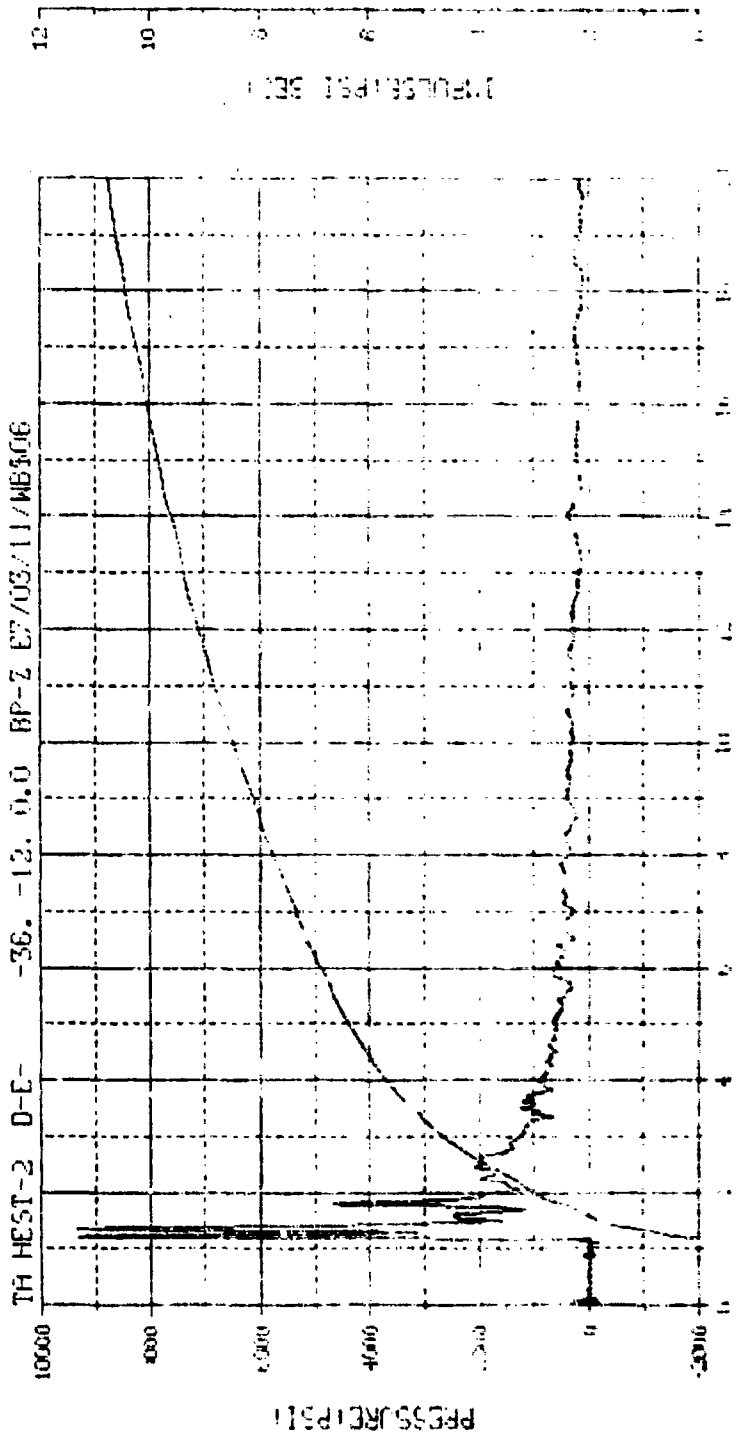
M.N. = 5 E.U. = 0.000, 0.001, 0.001
 TSK (P=15.110 DIGITS=0.000), 0.001
 S.R. = 100.00 KHZ 10 04 FT, 28 INR 70.
 VSN TAPE22 FILE-64



N.N. = 5	C.U. = 0.000, 0.000	VSM =
TSK IP = 15.110	DIRTY = 0.000, 0.000	THREE =
S.R. = 100.00 KHZ	10 04 14, 25 1414 70.	FILE = 04

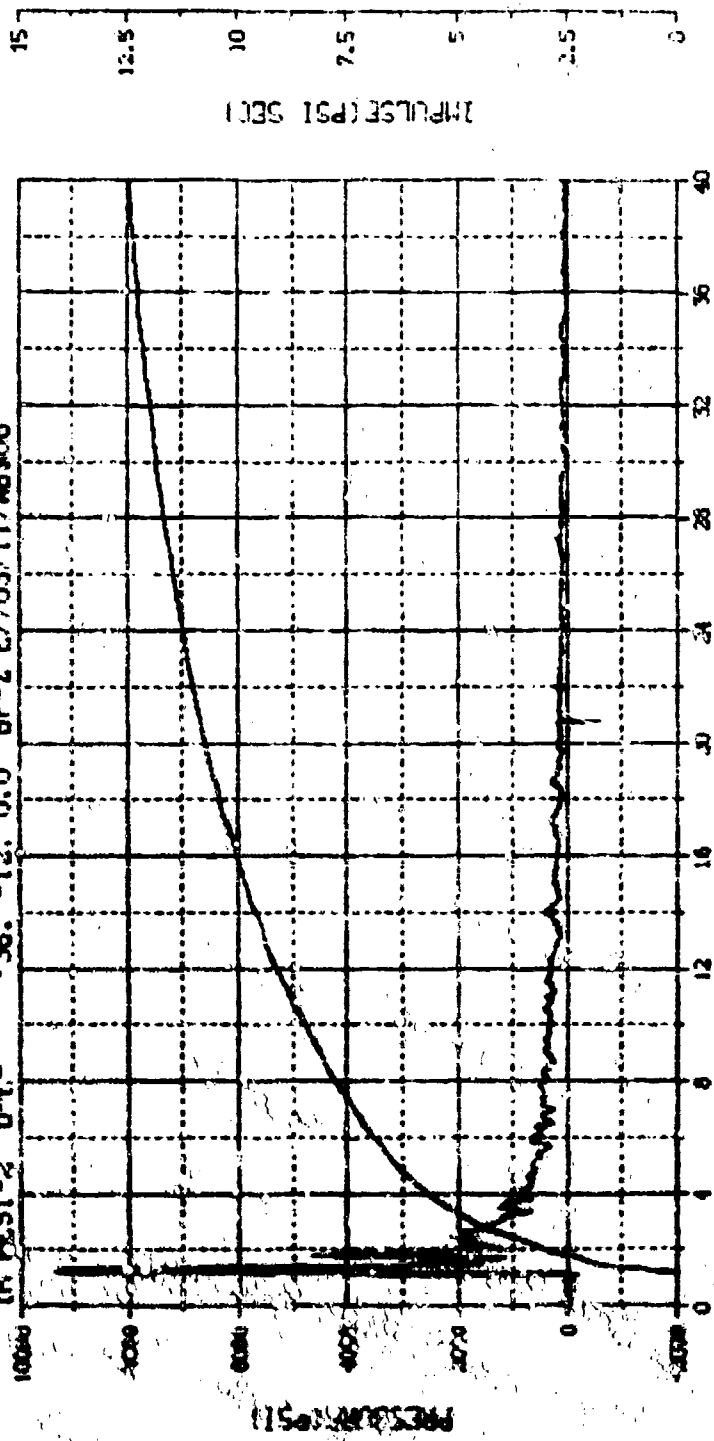


M.N. = 6 E.U. = 0.000, 5.415, 6.000 VSM= TAPE22
 TSKIP=15.100 DIGITS=0.000, 0.000, 5.000 FILE=50
 S.R. = 100.00 KHZ 10 04 PM, 28 MAR 75.

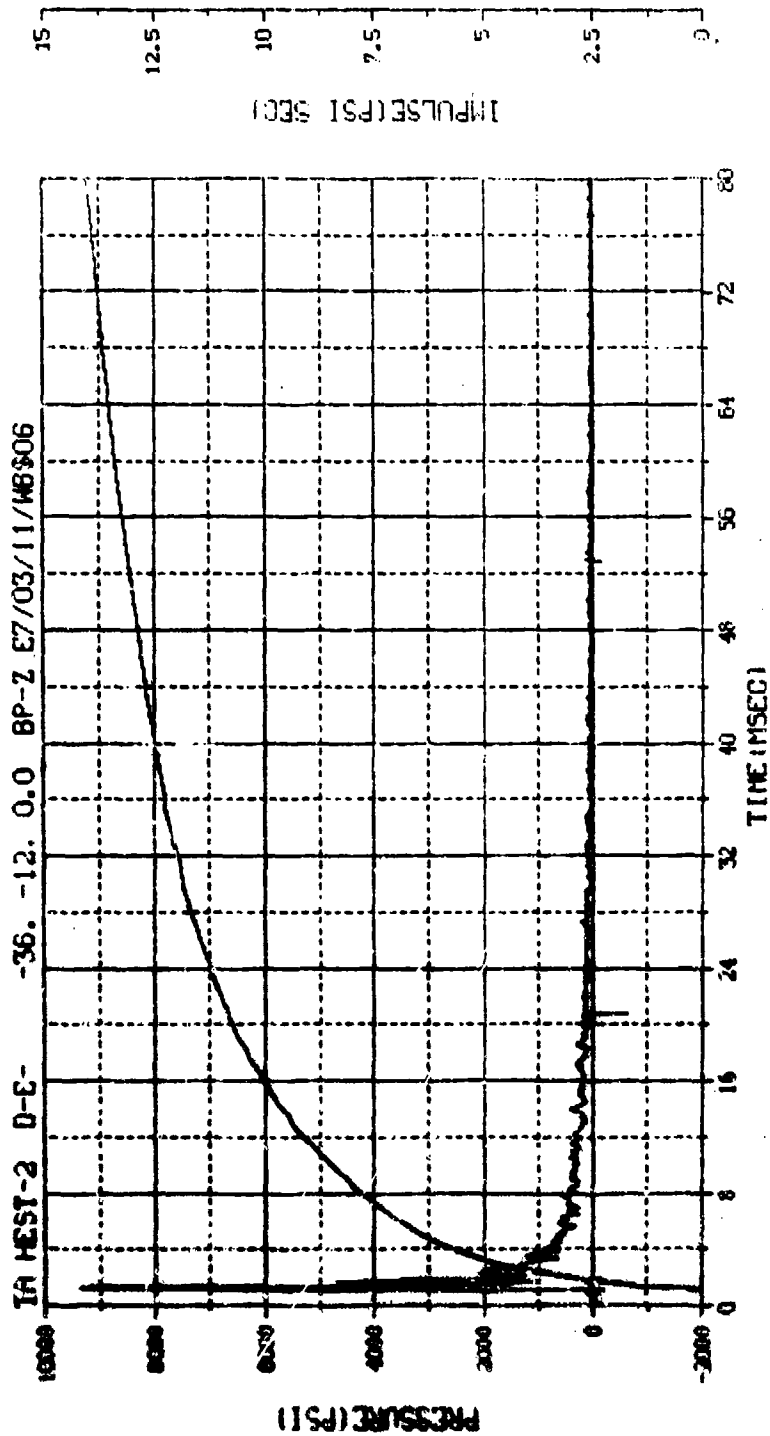


W.D. 6
 750 IP-15,100
 S.F. -100.00 HZ
 C.D. 10.000, 10.000
 Initial to 10.000, 10.000
 10 04 PM, 26 Dec 54
 9341
 DEPECO
 FTLE-54

TR TEST-2 0-C- -36. -12. 0.0 BP-Z E7/03/11/AB\$06

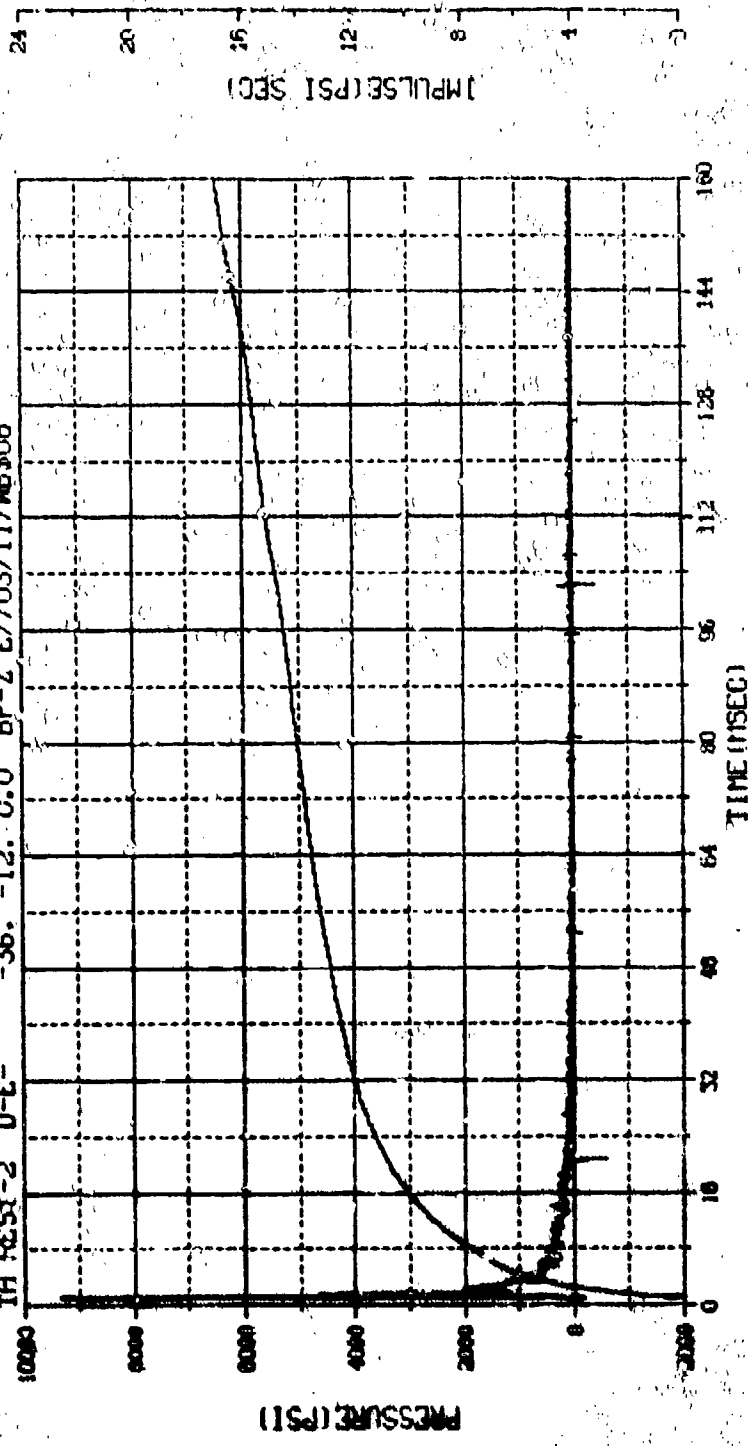


M.N. = 6 E.U. = 0.00015116.000 VSN=
TSK (F=) 15.100 DIGITS=0.0001566.500 TAPE20
S.R. = 100.00 KHZ 10 04 PM, 28 MAR 78. FILE=50



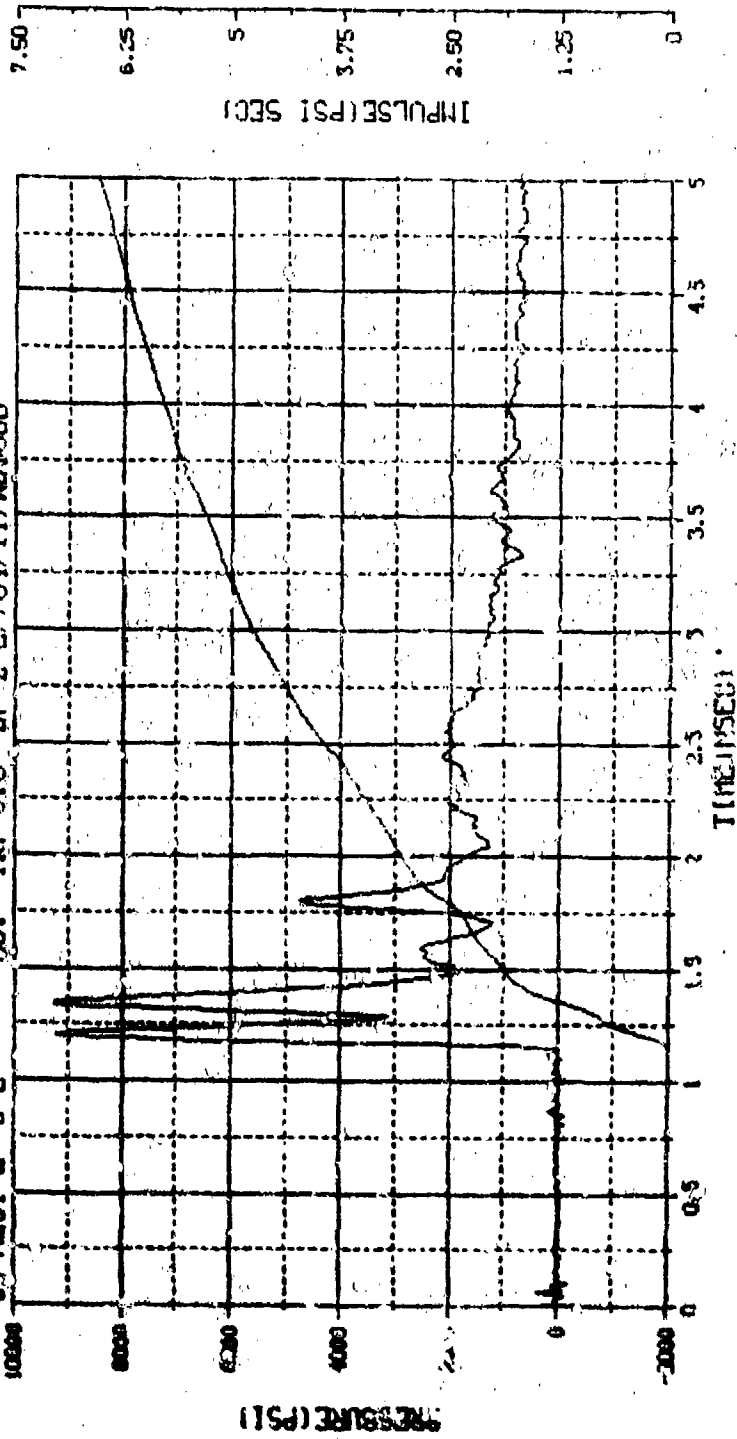
M.N. = 6	E.U. = -0.000,5416,600	VSN-
TSR IP-15.100	DIGITS=0,000,466,540	TAPE22
S.F. = 100.00 KHZ	10 04 PM, 28 MAR 73.	FILE=50

TA TEST-2 0-E- -36. -12. 0:0 BP-Z E7/03/11/MB906



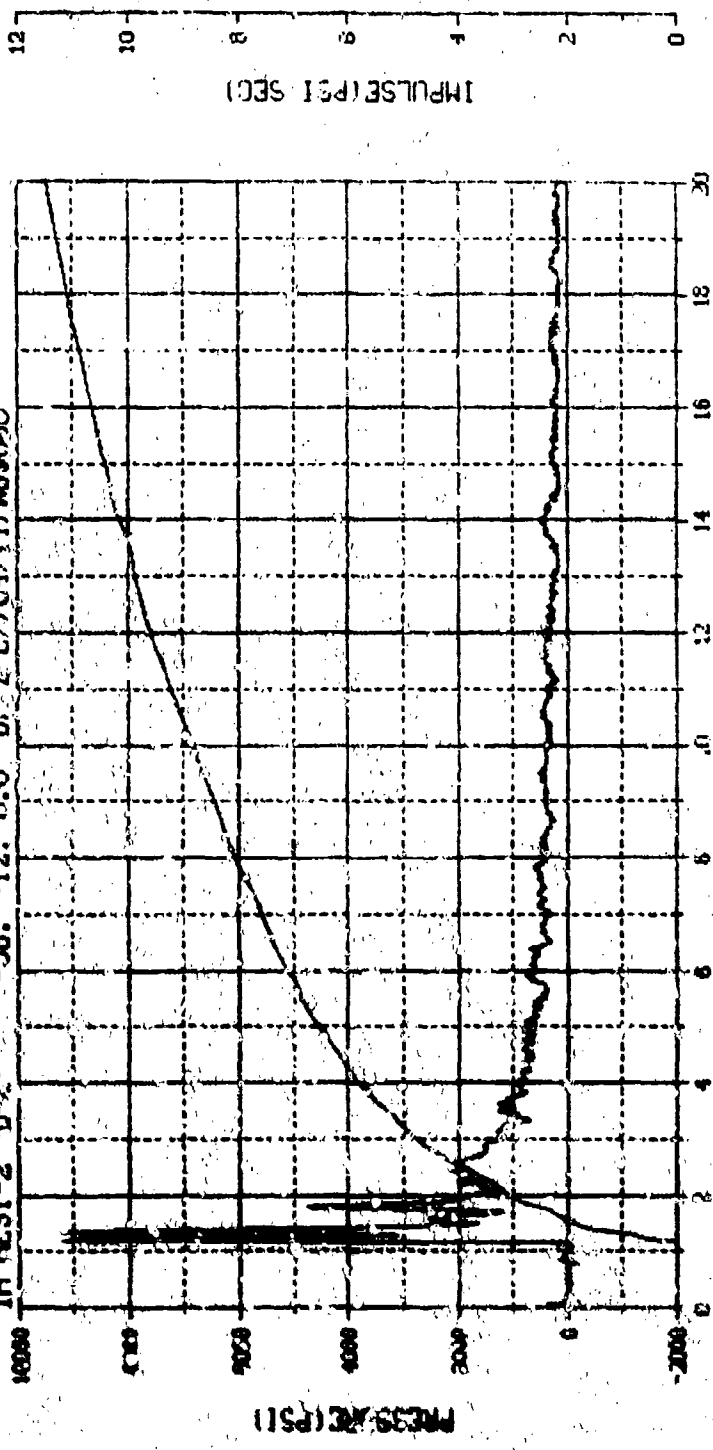
M.N. = 6 E.U. = 0.000, 5416.600 VSN=
 TSKIP=15.100 DIGITS=0.000, 486.500 TAPE22
 S.R. =100.00 KHZ 10 04 FT, 23 MAR 78. FILE=50

TA HEST-2 D-C 36. -12. 0.0 BP-Z E7/07/11/MB/UGB

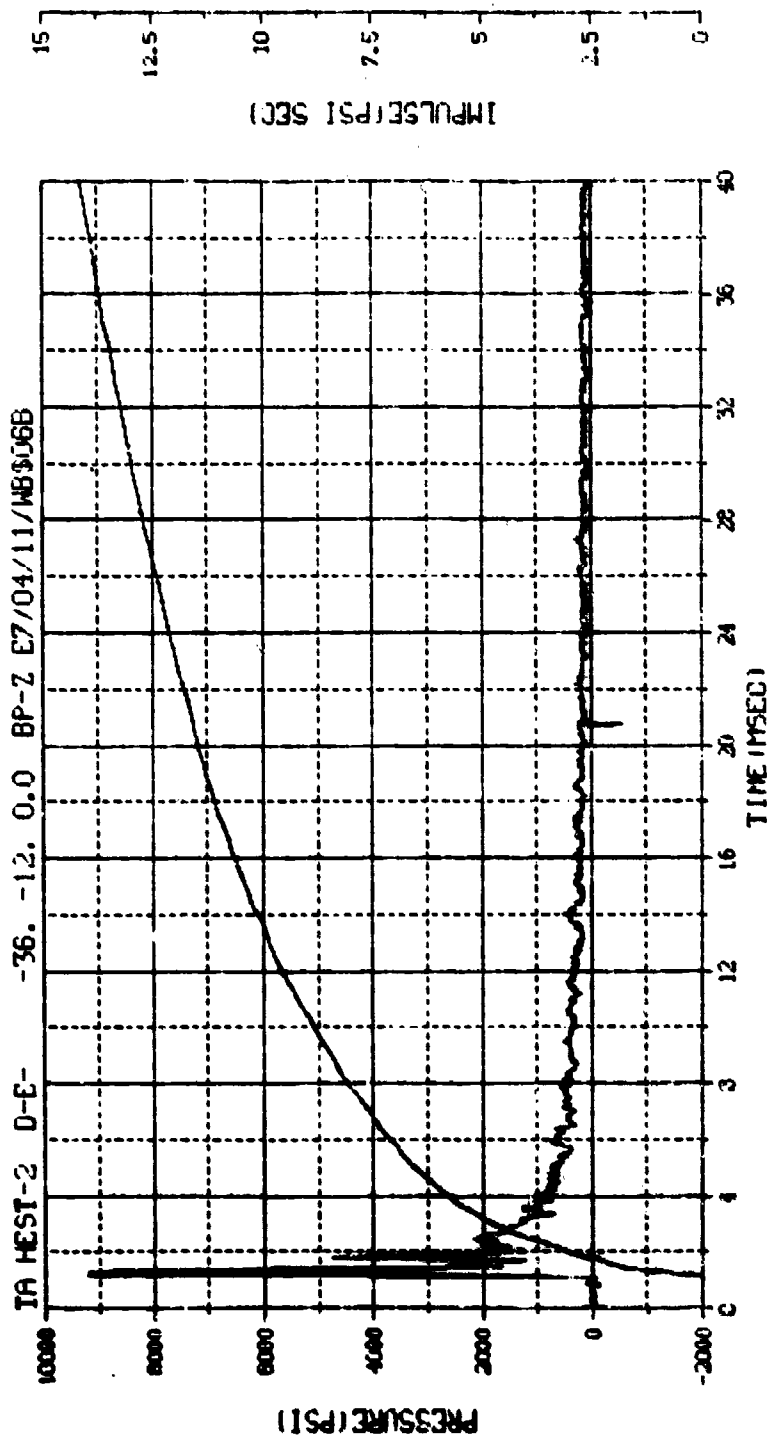


M.N. 6 E.U. -0.001, 5416.600 VSN-
TSKIP-15.110 DIGITS-0.000, 312.000 TAPE22
S.R. -100.00 KHZ 9 00 AM, 23 MAR 78. FILE-06

TR HEST-2 (P-2) -36. -12. 0.0 BP-7 E7/04/11/MB905B



M.N. - 6	E.U. -0.000, 5-116.600	VSN-
TSK.IP-15.110	DIGITS-0.000, 112.500	TAPE22
S.R. -100.00 KHZ	9 00 AM, 29 MAR 75.	FILE-86

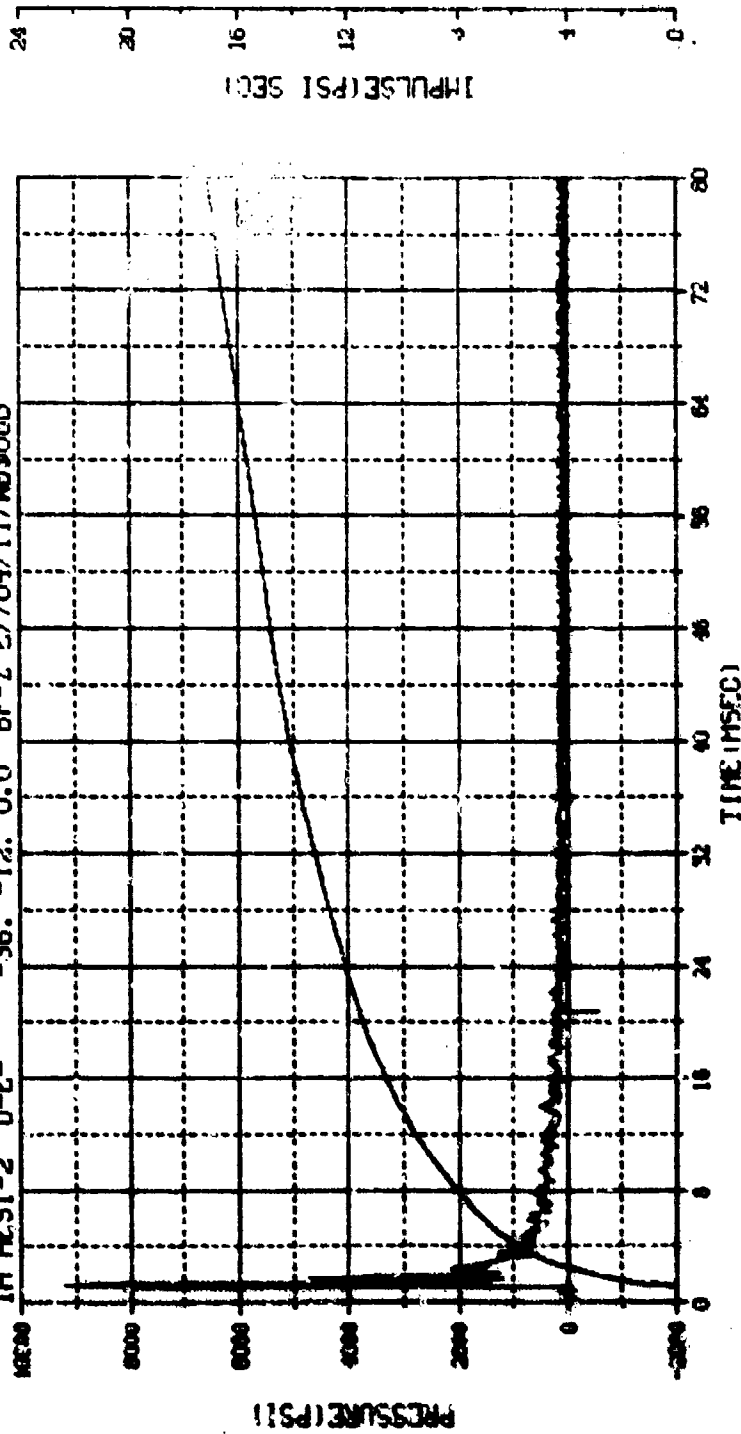


M.N. - 6
 TSKIP-15.110
 S.R. -100.00 MHZ

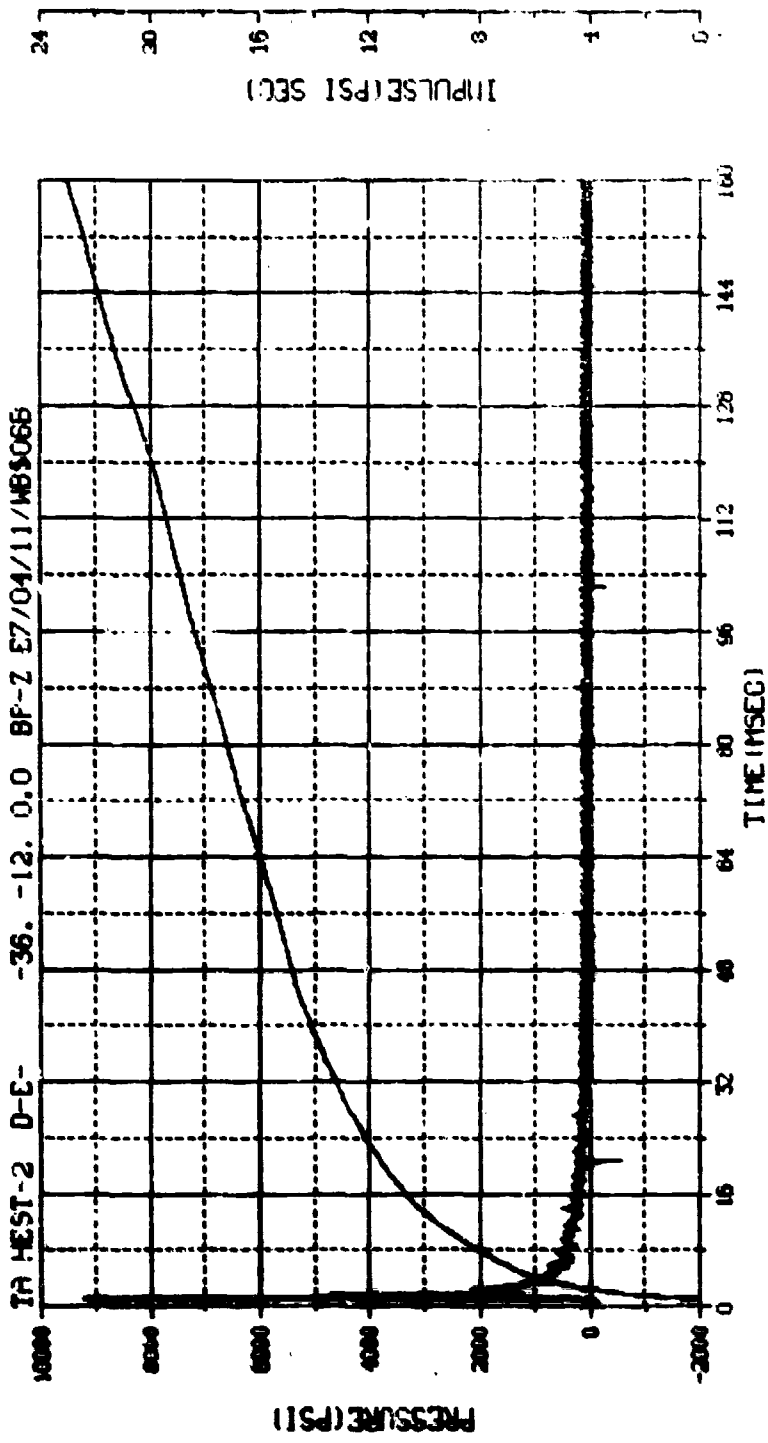
E.U. -0.000, 5416.100
 DIGIT-0.000, 333.441
 10 04 PM, 20 MAR 76.

VSN-
 TAPE22
 FILE-66
 1

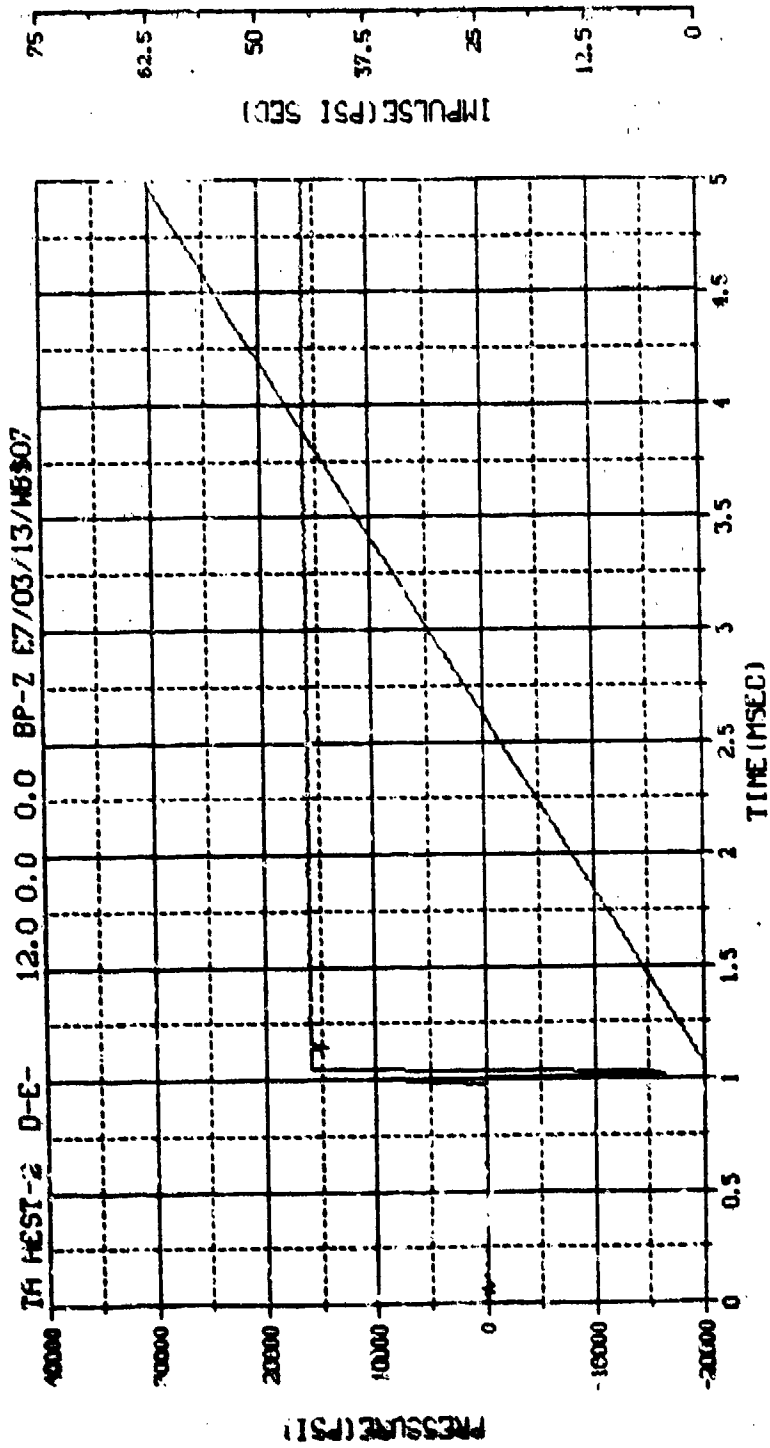
TA TEST-2 0-E- -36. -12. 0.0 BP-Z E7/04/11/MS06B



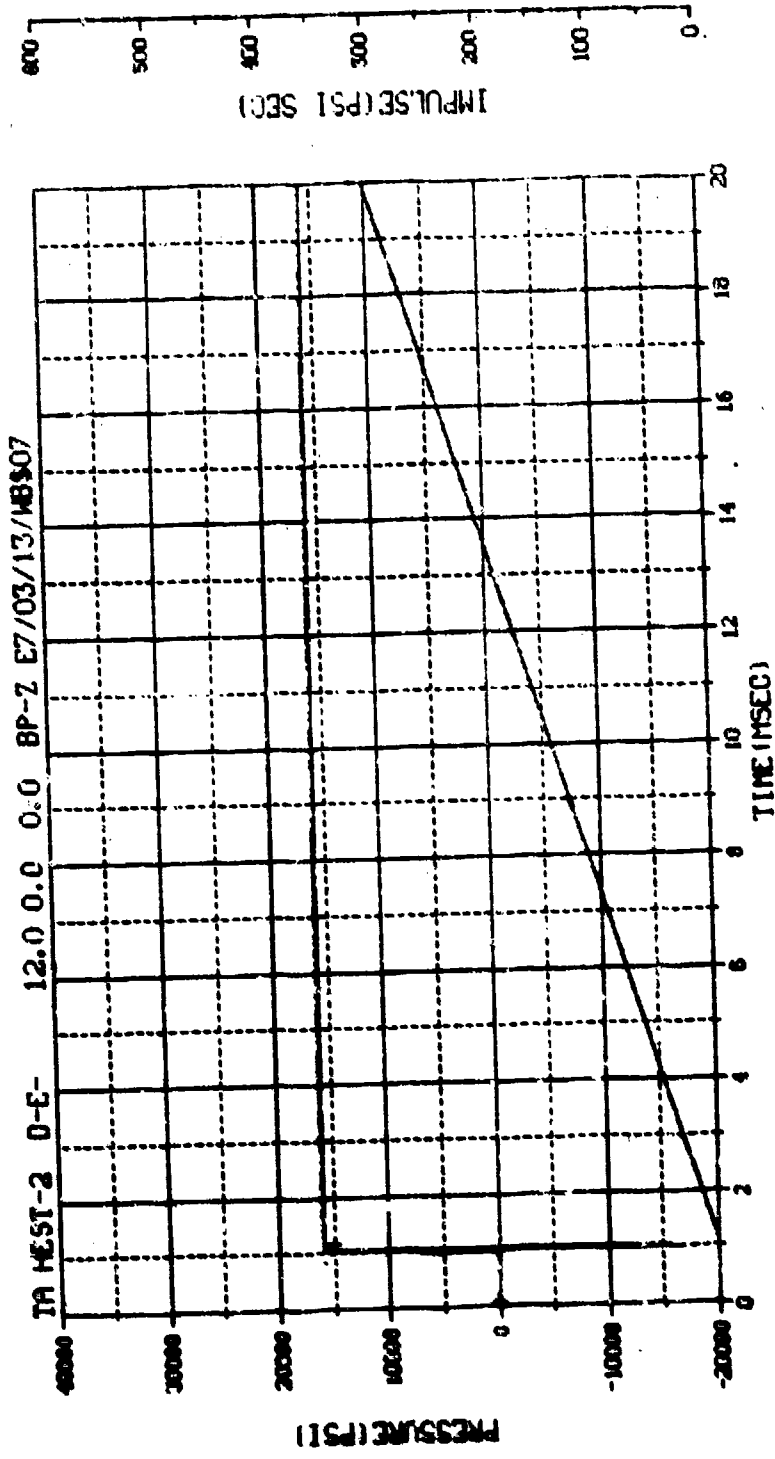
M.N. - 6 E.U. -0.000, 5116.600 VSN-
TSKIP=15.110 DIGITS=0.000, 392.500 TAFE22
S.R. -100.00 KHZ 10 04 PM, 28 MAR 72. FILE-66



M.N. - 6 E.U. -0.000,5416.600 VSN-
 TSKIP-15.110 DIGITS-0.000,392.500 TAPE22
 S.R. -100.00 KHZ 10 04 PM, 28 MAR 76. FILE-66



M.N. - 7	E.U. -0.000, 6577.000	VSN-
TSKIP-15.100	DIGITS-0.000, 757.000	TAPE22
S.R. -100.00 KHZ	10 04 PM, 28 MAR 78.	FILE-52

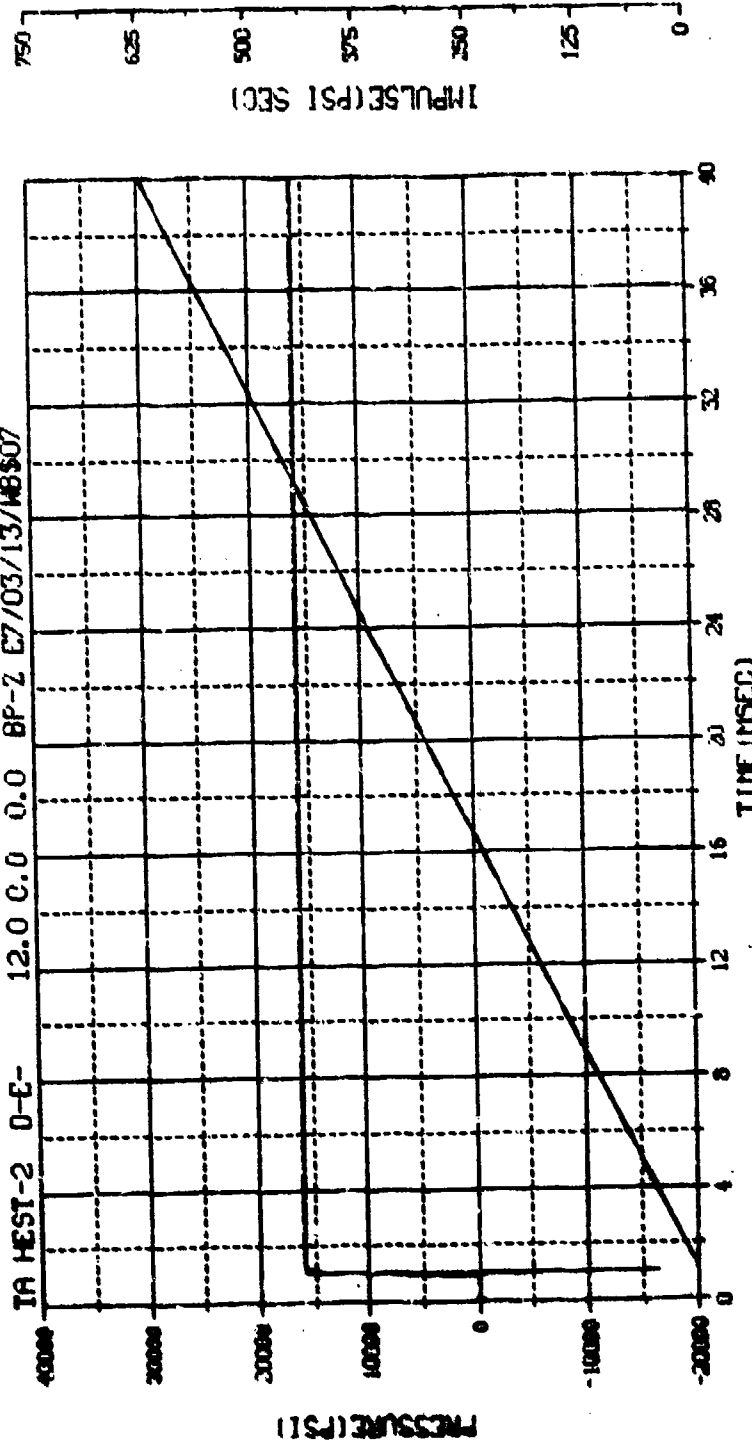


M.N. = 7
 TSXIP-15.100
 S.R. -100.00 KHZ

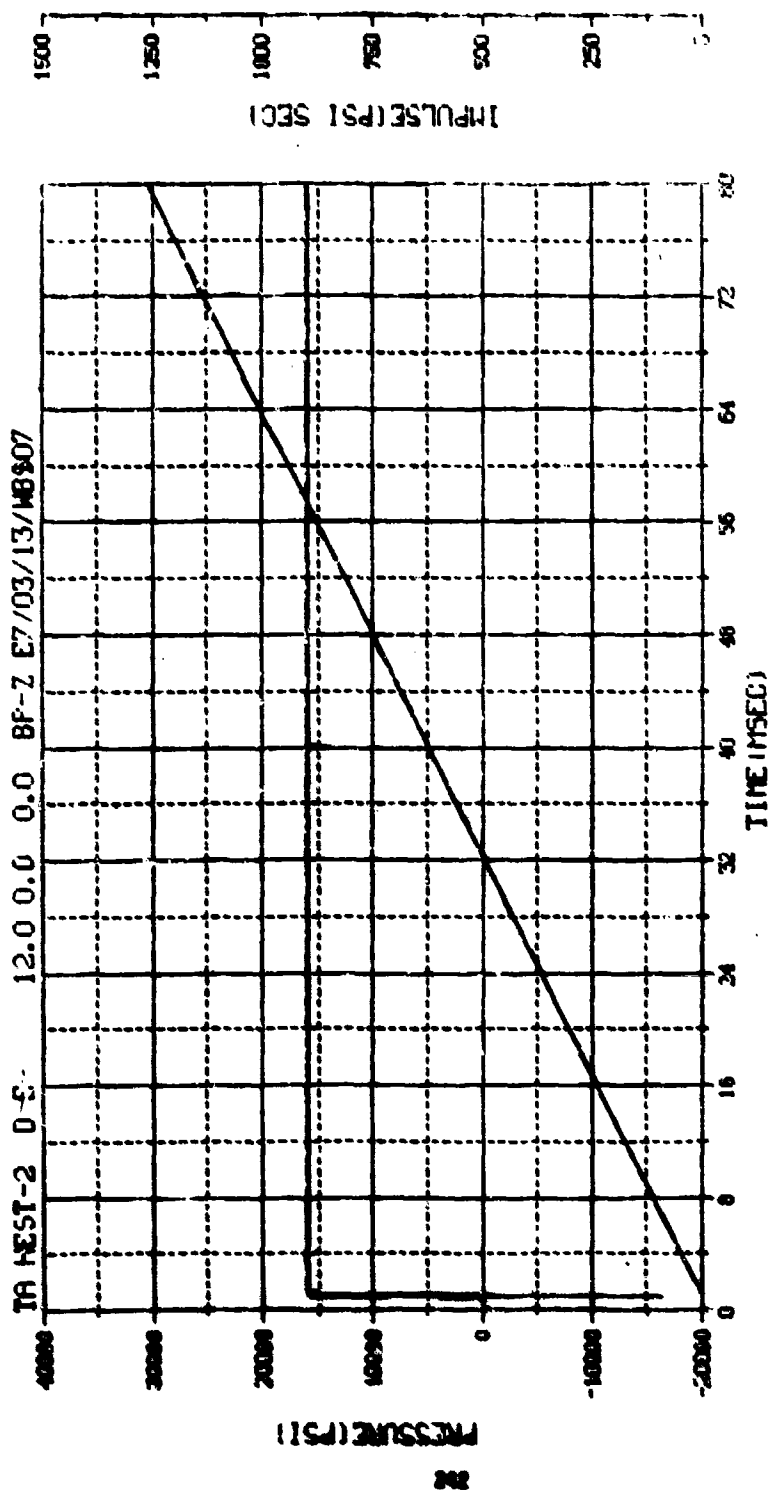
E.U. -0.000,6577.000
 DIGITS-0.000,757.000
 IO 04 PH, 28 MAR 78.

VSN-
 TAPE22
 FILE-52

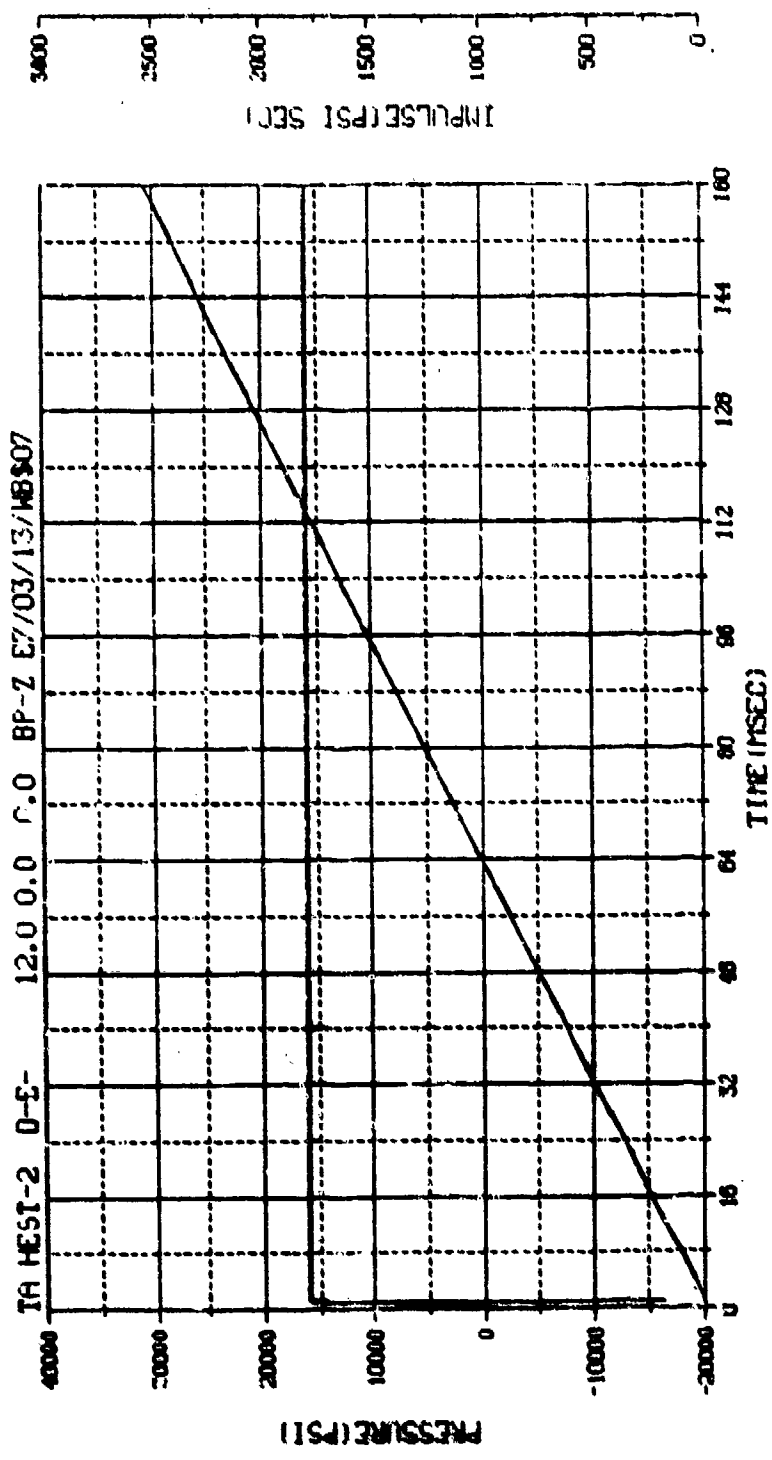
IA HEST-2 0-E- 12.0 C.0 0.0 BF-Z E7/03/13/MB\$07



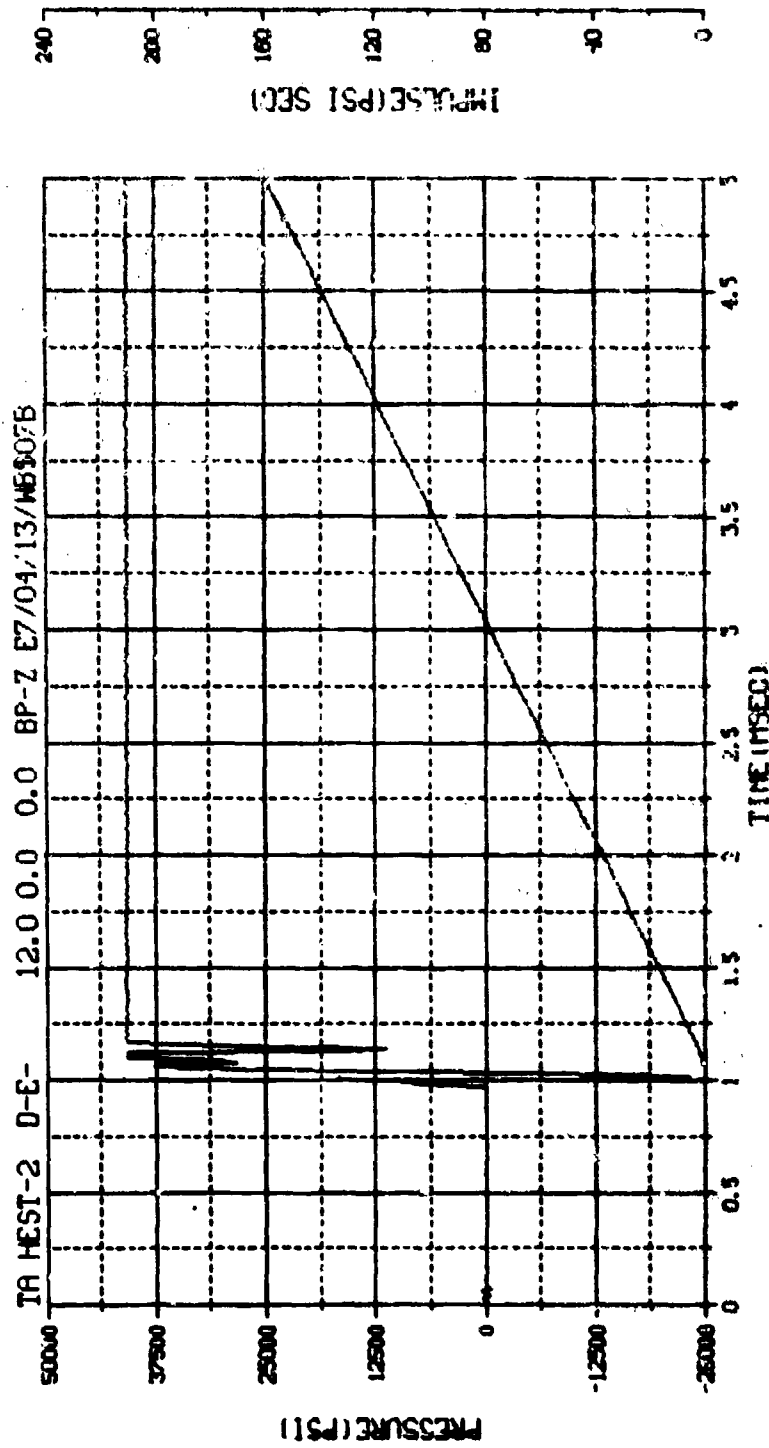
M.N. - 7 E.U. -0.000, 6577.000 VSN-
 TSKIP-15.100 DIGITS-0.000, 757.000 TAPE22
 S.R. -100.00 KHZ 10 04 PM, 23 MAR 78. FILE-52



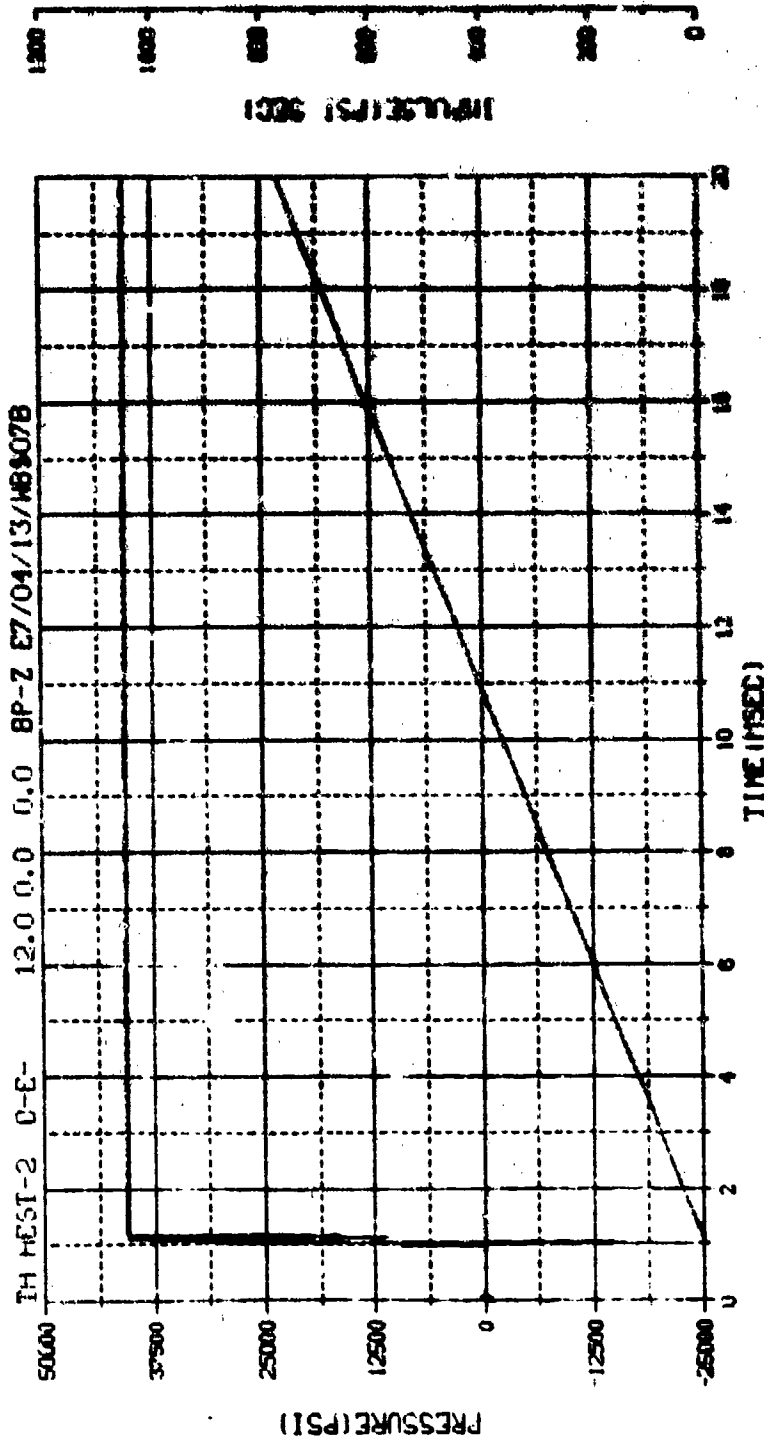
M.N. = 7
 TSKIP=15.100
 S.R. =100.00 KHZ
 E.U. =-0.000,6577,000
 DIGITS=0.000,757,000
 10 04 PM, 26 MAR 78.
 VSN=
 TAPE22
 FILE-52



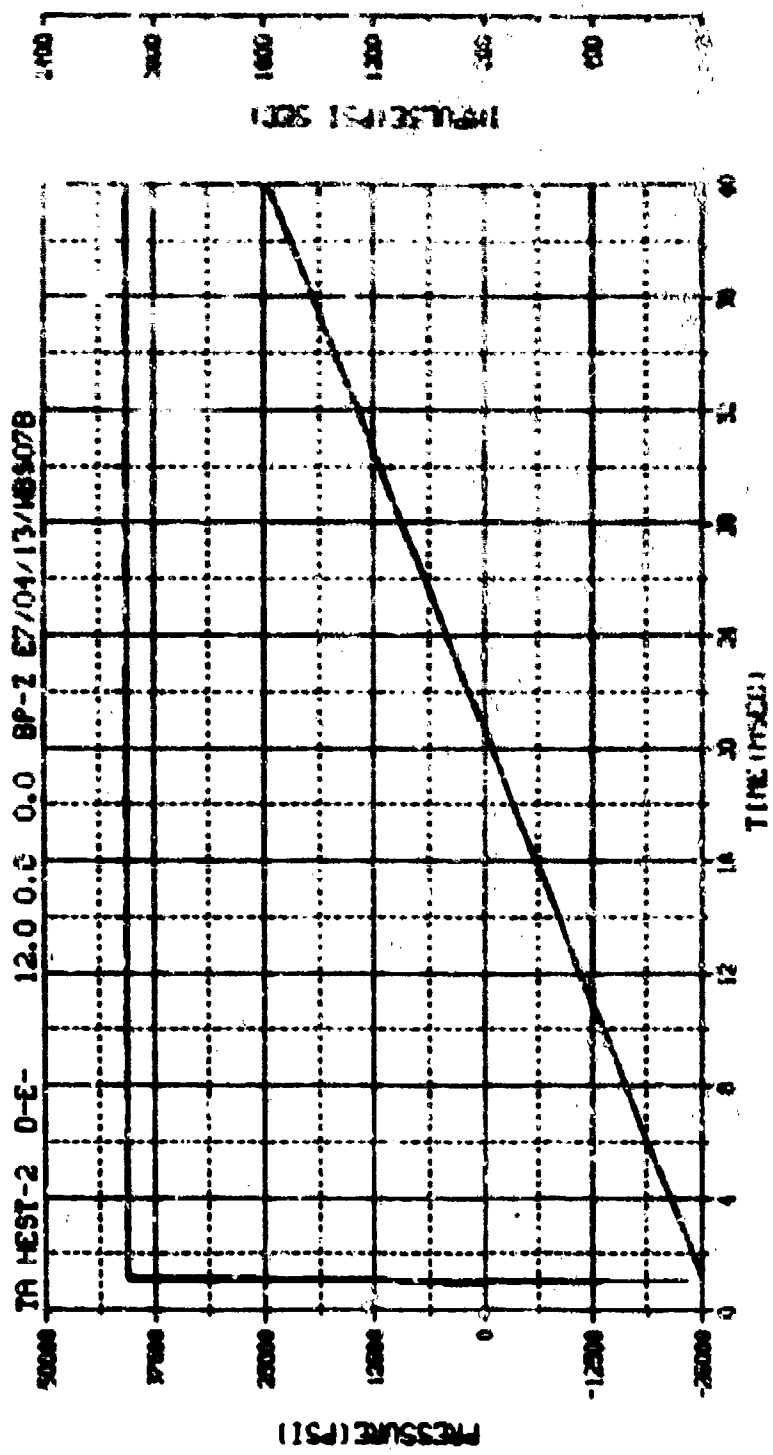
M.N. - 7	E.U. -0.000,6577,000	VSN-
TSKIP-15.100	DIGITS-0.000,757,000	TAPE22
S.R. -100.00 KHZ	10 04 PM, 28 MAR 78.	FILE-52



M.N. = 7 E.U. = 0.000, 6577.000 VSN-
 TSKIP=15.110 DIGITS=0.000, 297.000 TAPE22
 S.R. = 100.00 KHZ 9 00 AM, 29 MAR 78. FILE=68



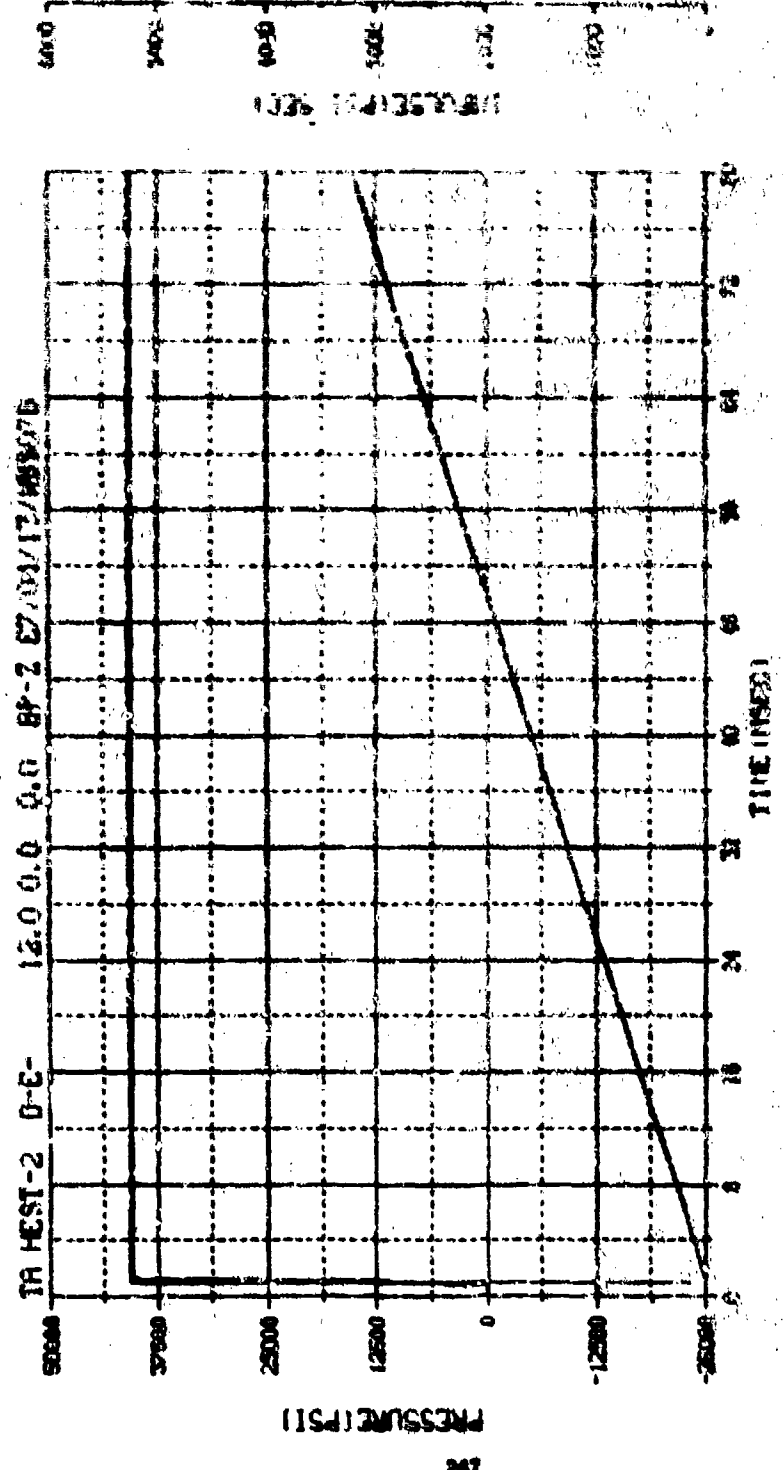
H.N. - 7
 TSKIP-15.110
 S.R. -100.00 KHZ
 E.U. -0.000,6577,000
 DIGITS-0.000,297,000
 9 00 AM, 29 MAR 78.
 YSN-
 TRF22
 FILE-08



N.N. = 7
 TSK IP-15.110
 S.R. -100.00 KHZ
 E.U. -0.001, 0.001, 0.001
 DIGITS-0.001, 0.001, 0.001
 10 04 PM, 25 MAR '65
 VGN-
 TIME 22
 FILE-06

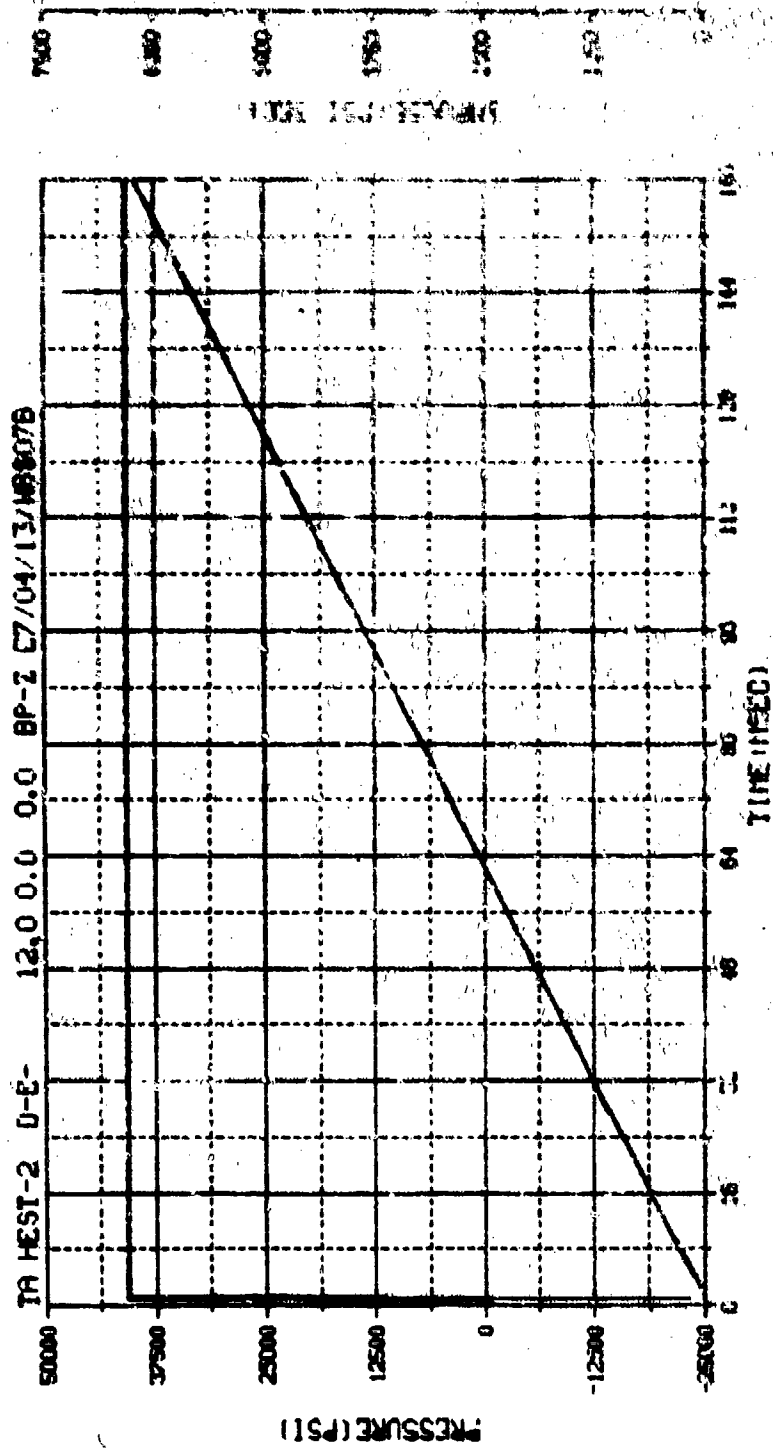
INFLUENCE 5001

2000
1000
0
-1000
-2000



1326

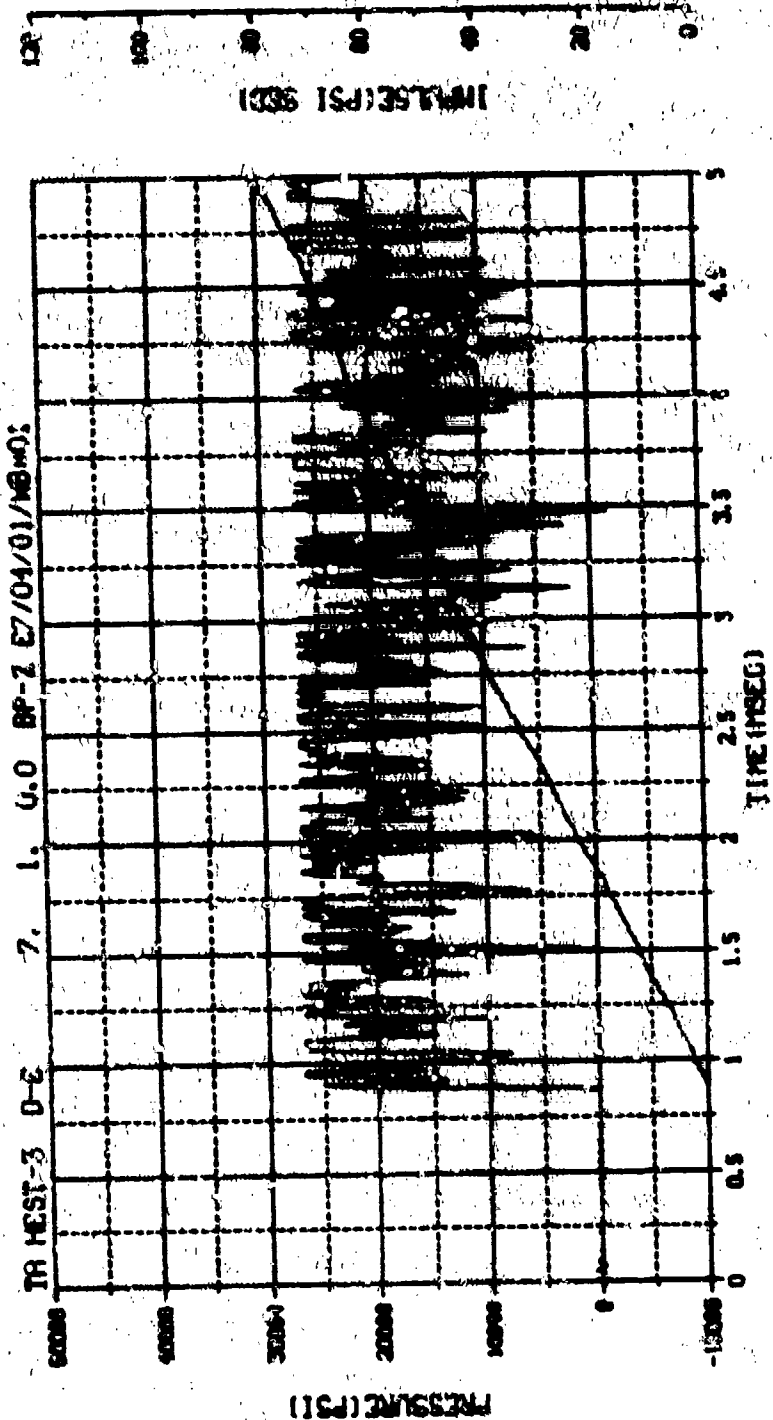
M.N. 7
 E.U. -0.000, 6.572, 1.001
 TSKIP=15.110
 DIGITS=10.000, 577.000
 S.R. -100.00 KMZ
 10 04 01, 35 MAR 76, F.I.U.-65



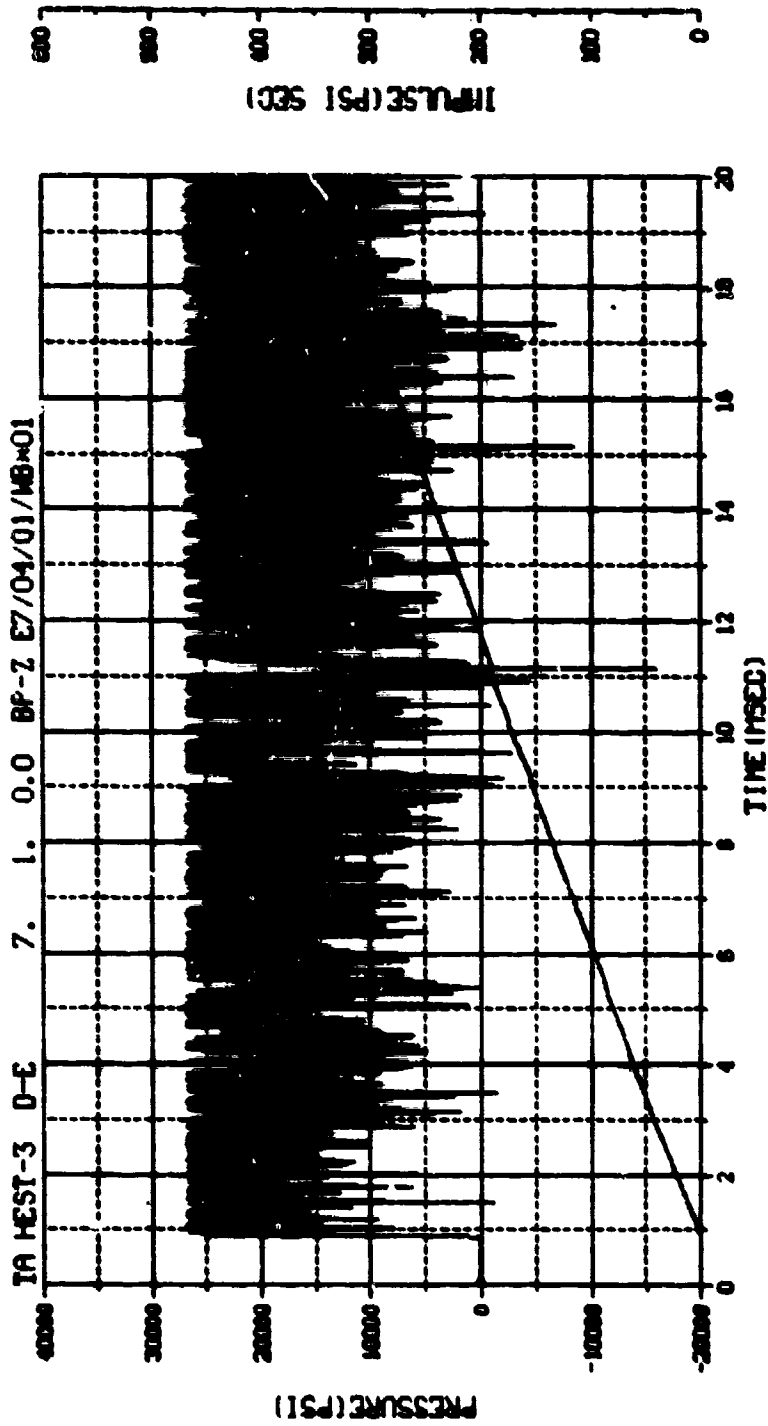
M.N. - 7
 TSKIP-15.110
 S.R. -160.00 KHZ

E.U. -0.000, 0.000, 1.000
 DIGITS-0.000, 0.12, 1.00
 60 01 PM, 26 MAR 72

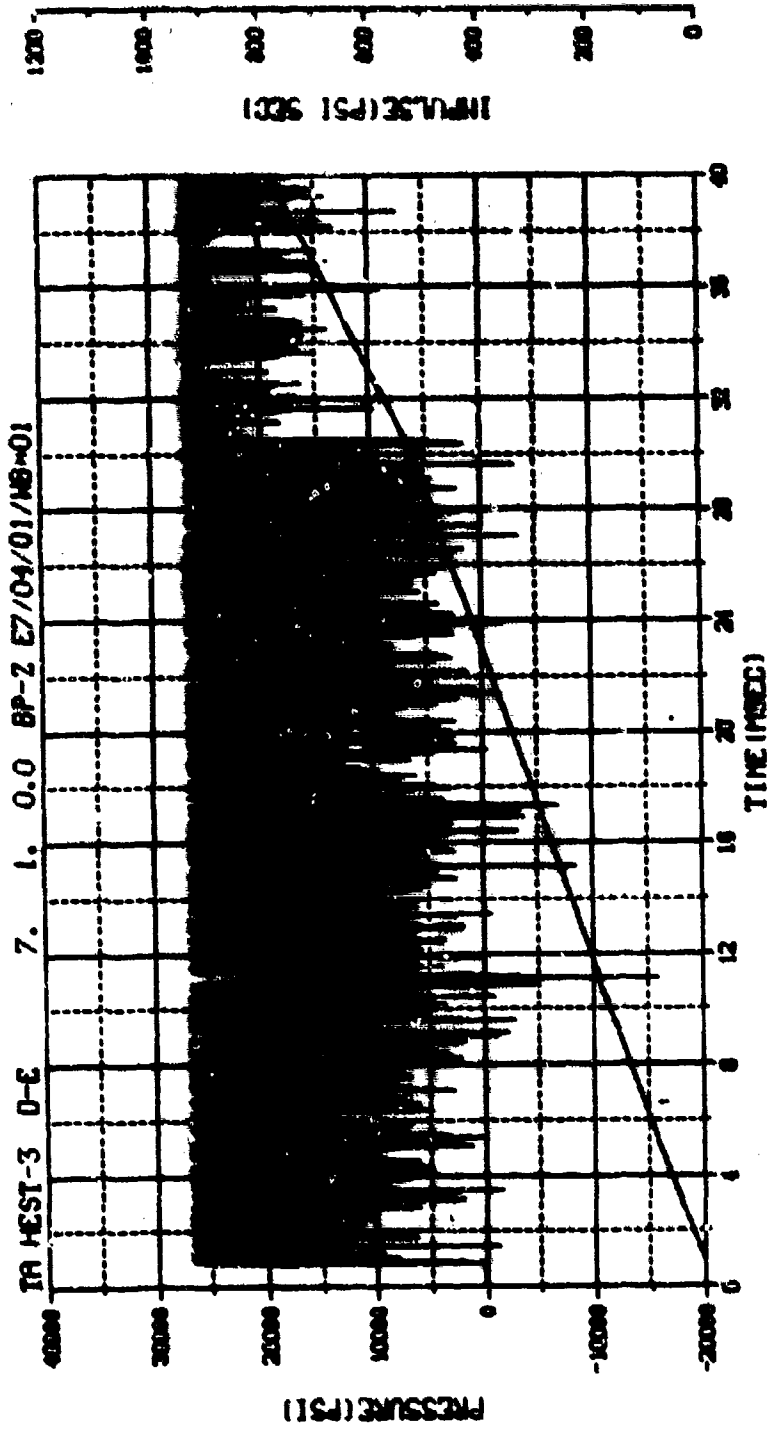
YSW-
 TRFEE
 FILE-02



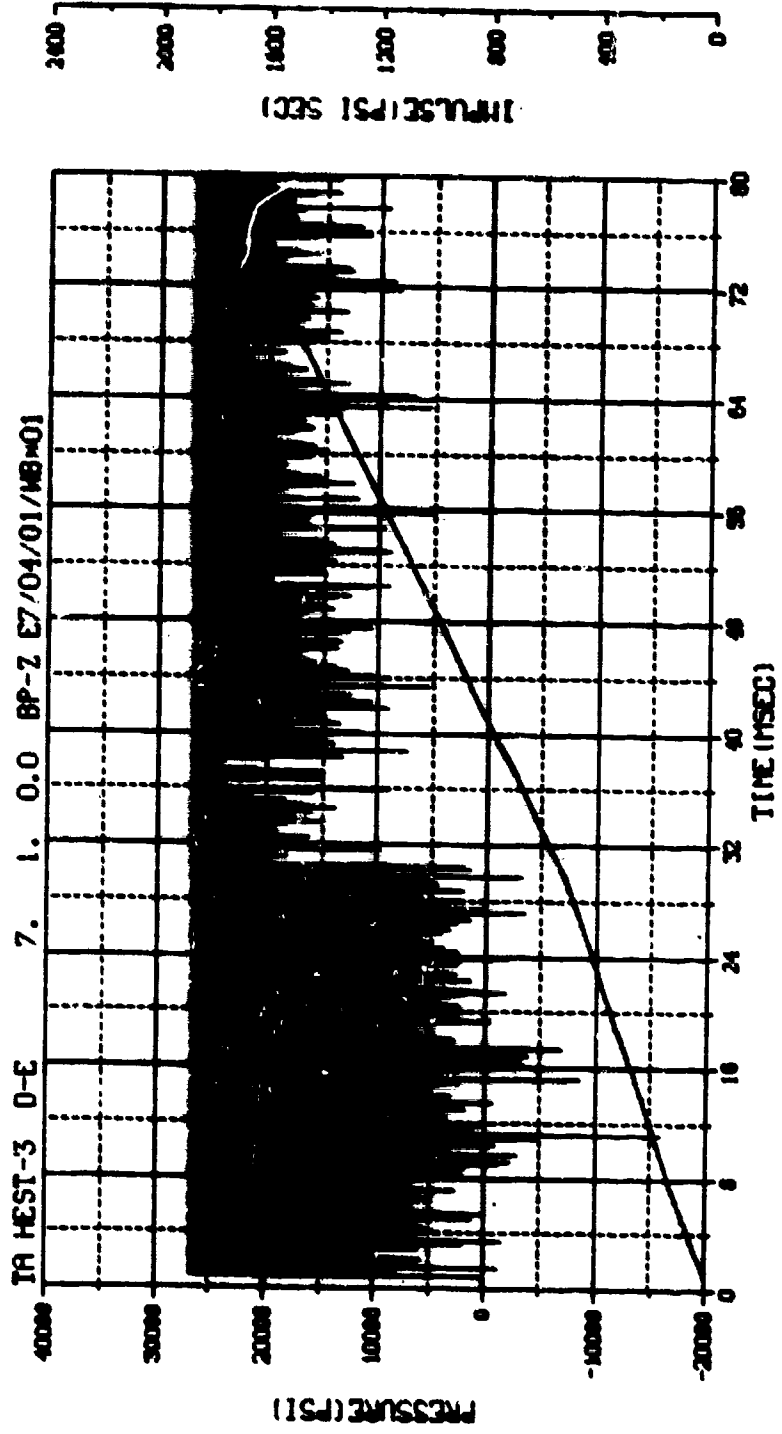
M.N. - 1	E.U. - 0.000, 8755.000	VSM- ED23
TRKIP-12.650	DFOITS-0.000, 611.500	TRPE22
S.R. - 100.00 KHZ	11 36 AM, 2 MAY 78.	FILE-32



M.N. - 1	E.U. -0.000,6755.000	VSM- ED23
TSXIP-12.650	DIGITS-0.000,611.500	TAPE22
S.R. -100.00 KHZ	11 36 AM, 2 MAY 78.	FILE-32

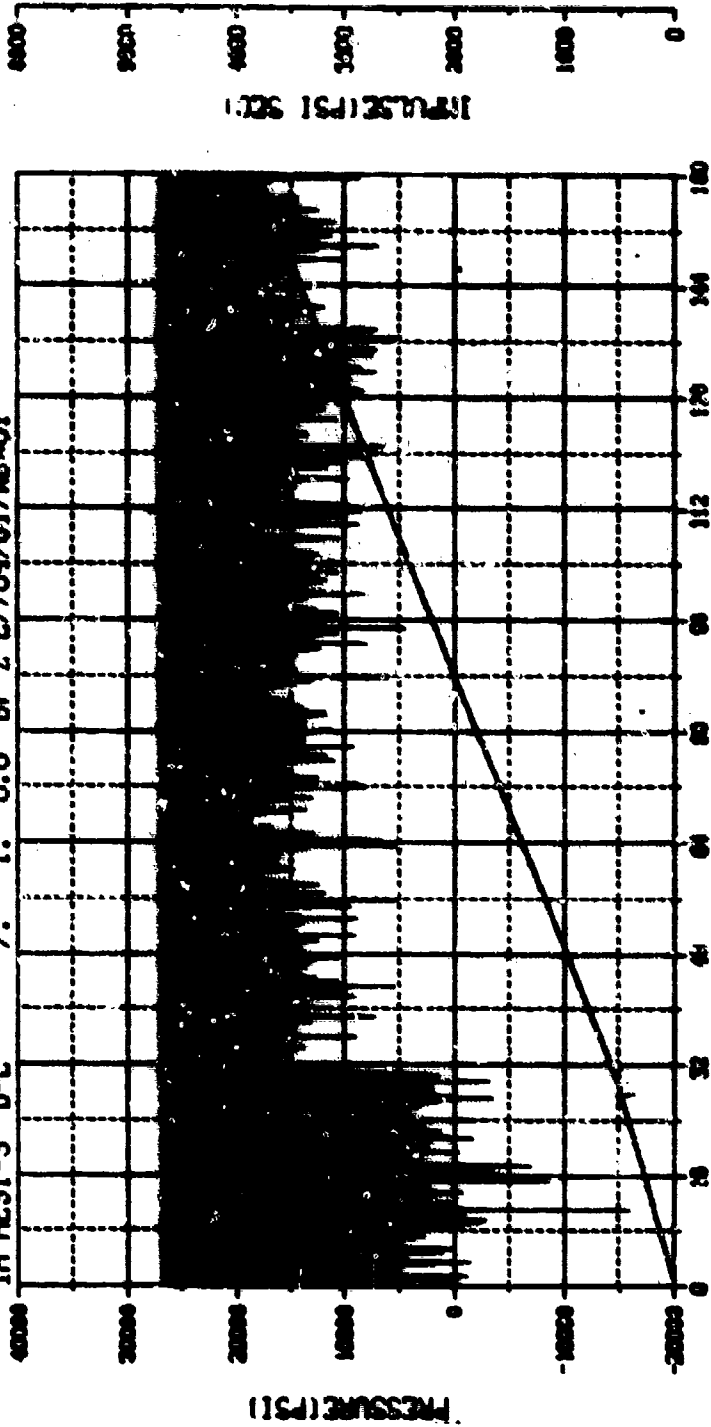


M.N. - 1	E.U. -0.000, 8755.000	VSN-
TSKIP-12.650	DIGITS-0.000, 611.500	TIME22
S.R. -100.00 KHZ	8 50 AM, 2 MAY 78.	FILE-32

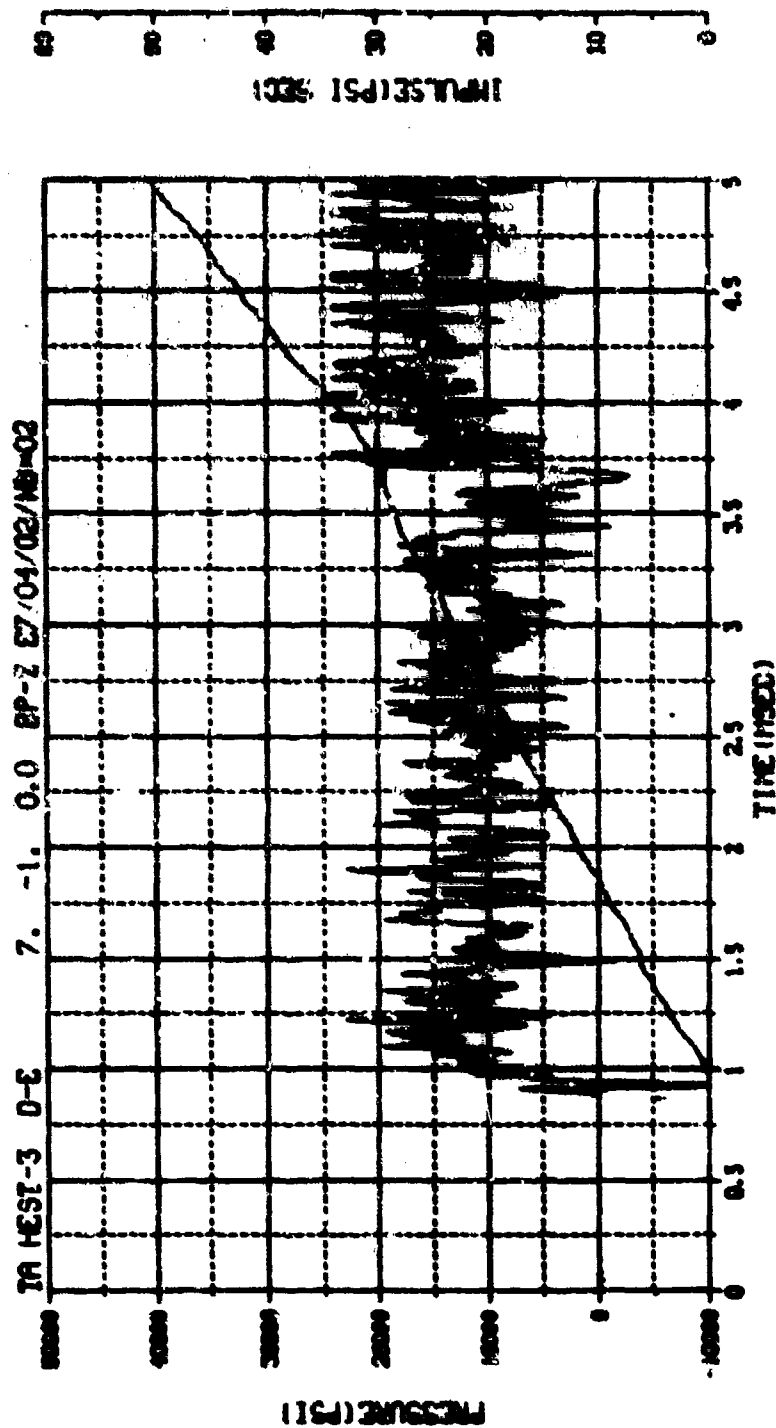


M.N. = 1	E.U. -0.000,8755.000	VSN-
TSKIP-12.650	DIGITS-0.000,611.500	TAPE22
S.R. -100.00 KHZ	8 50 AM, 2 MAY 78.	FILE-32

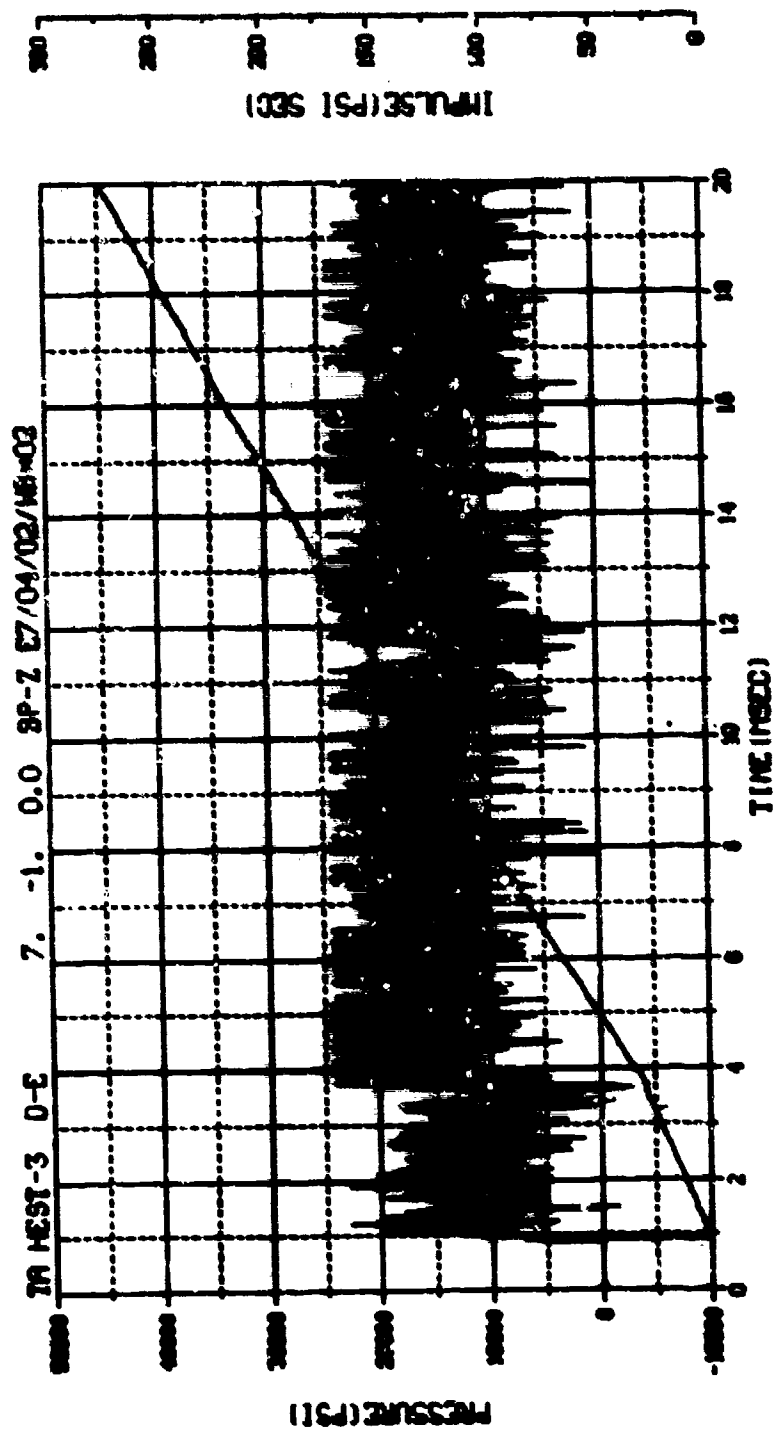
TA HEST-3 D-C 7. 1. 0.0 BP-Z E7/04/01/MB-01



M.N. - 1 E.U. -0.000, 8755.000 VSN-
TSKIP-12.650 DIGITS-0.000, 611.500 TAPE 22
S.R. -100.00 KHZ 8 50 AM, 2 MAY 78. FILE-32



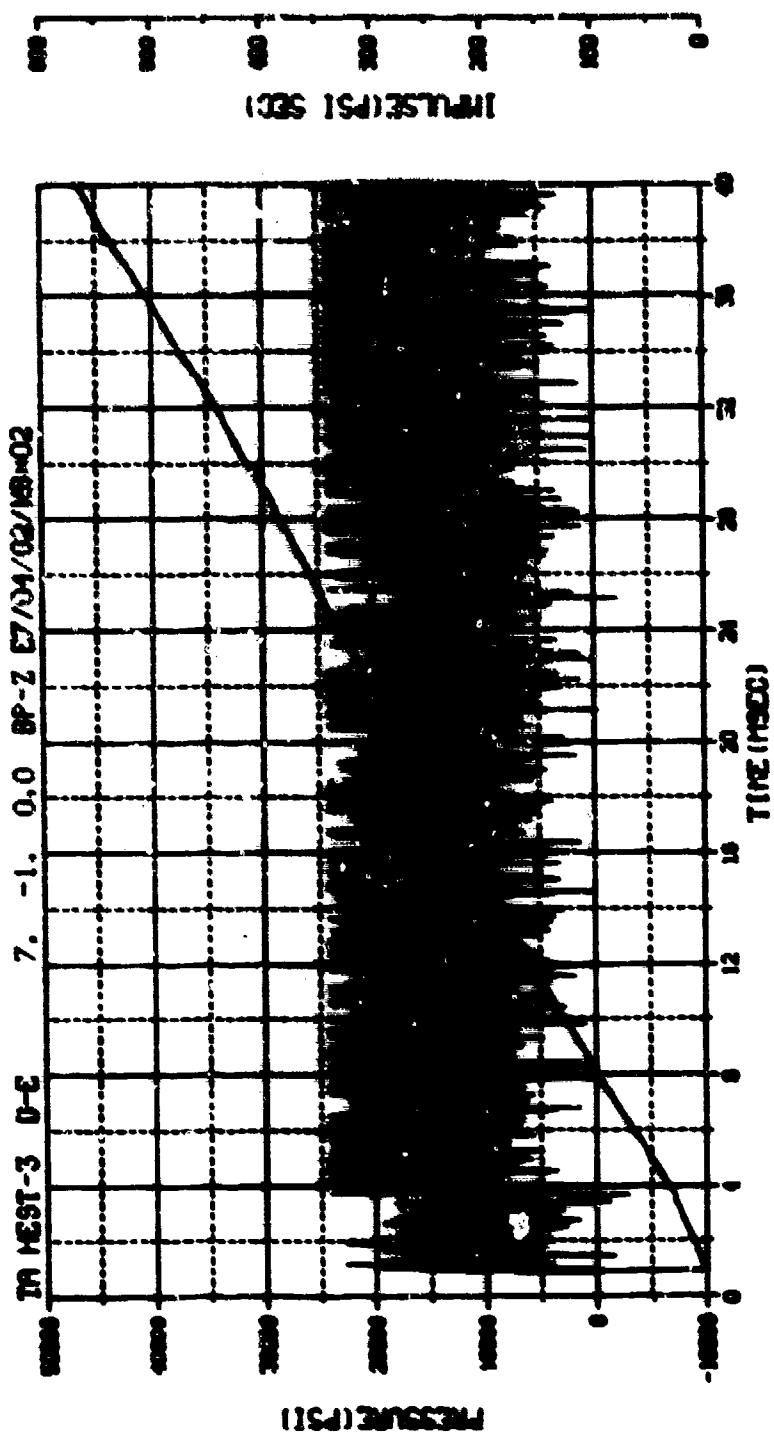
M.N. = 2	F.U. -0.000,8039.000	VSN- 0223
TSK(P)-12.650	DIGITS-0.000,598.125	TIME:2
S.R. -100.00 KHZ	11 36 AM, 2 MAY 76.	FILE-34



N.N. - 2
 TSKIP-12.850
 S.R. ~100.00 KHZ

E.U. -0.000, 8039.000
 DIGIT9-0.000, 596.125
 11 36 AM, 2 MAY 78.

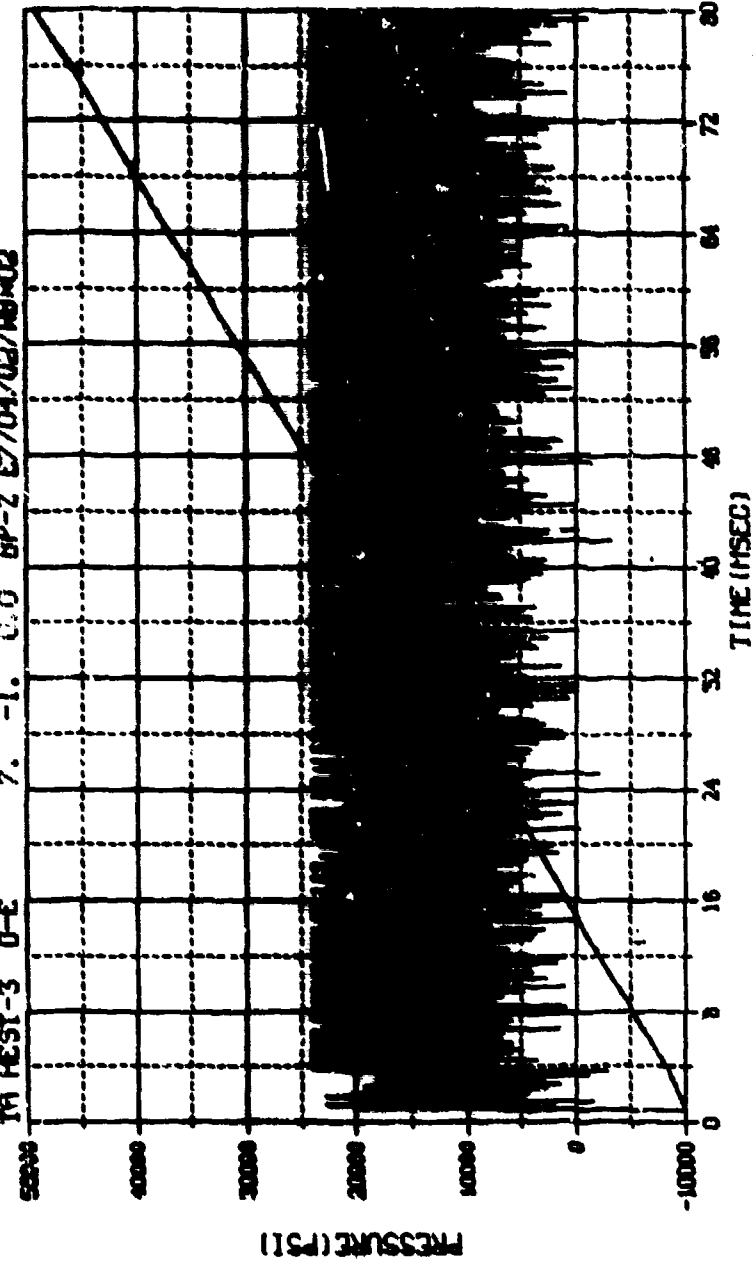
VSN- 0023
 TIME22
 FILE-34



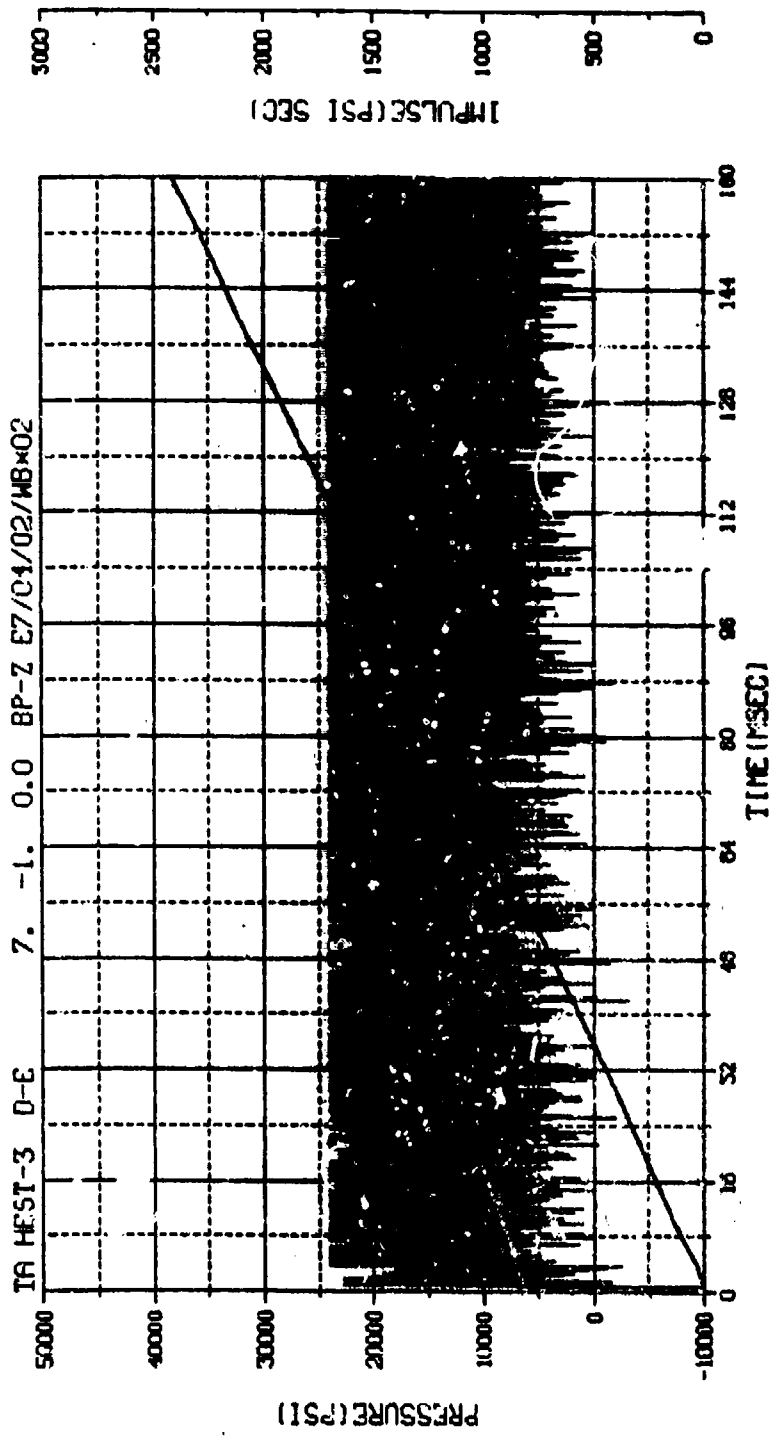
M.N. - 2 E.U. -0.000, 8039.000 VSN-
 TSK(P)-12.650 DIGITS-0.000, 598.125 TRPE22
 S.R. -100.00 KHZ 8 50 AM, 2 MAY 76. FILE-34

TA HEST-3 0-E 7. -1. 0.0 BP-2 E7/04/02/MB-02

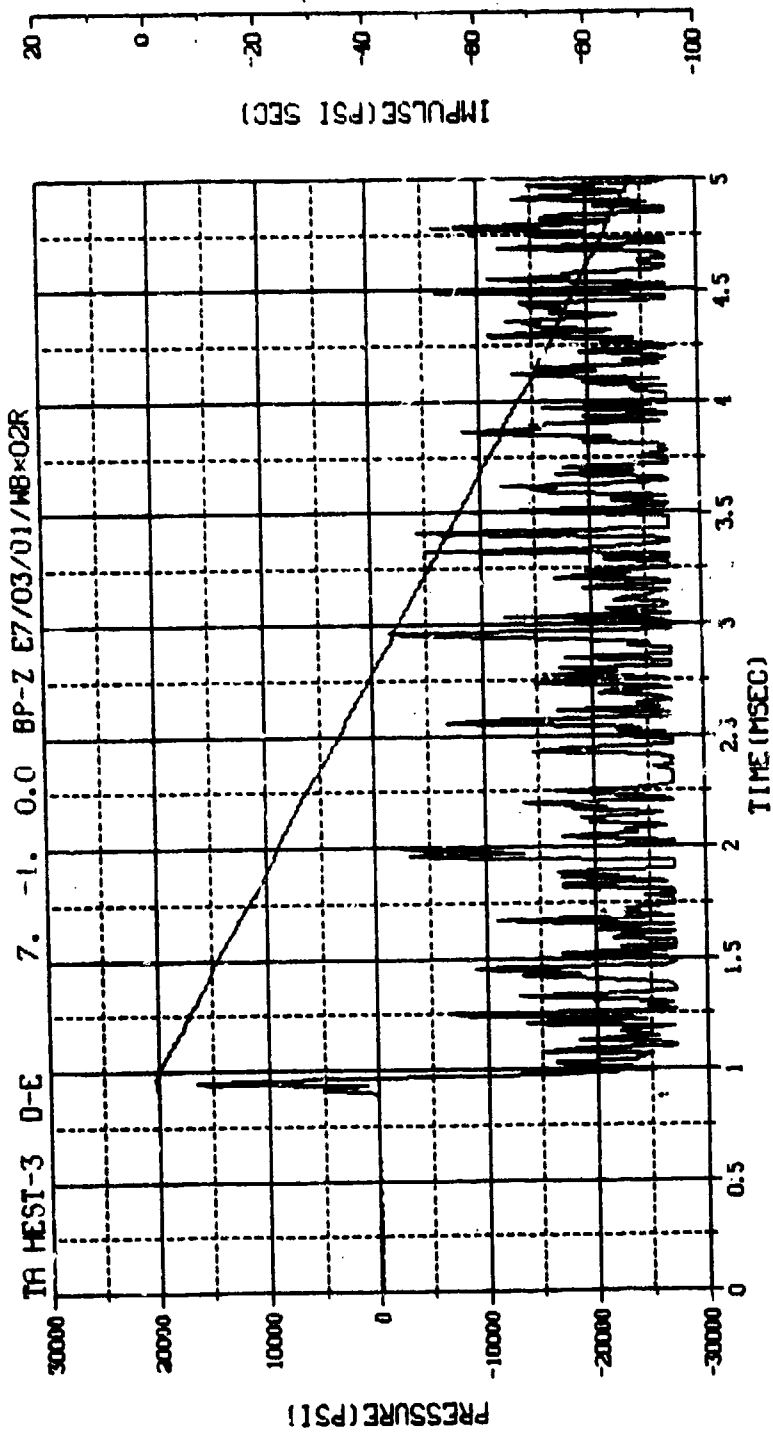
IMPULSE (PSI SEC)



M.N. - 2	E.U. -0.000,8039.000	VSN-
TSKIP-12.650	DIGITS-0.000,598.125	TAPE22
S.R. -100.00 KHZ	8 50 MH, 2 MAY 78.	FILE-54

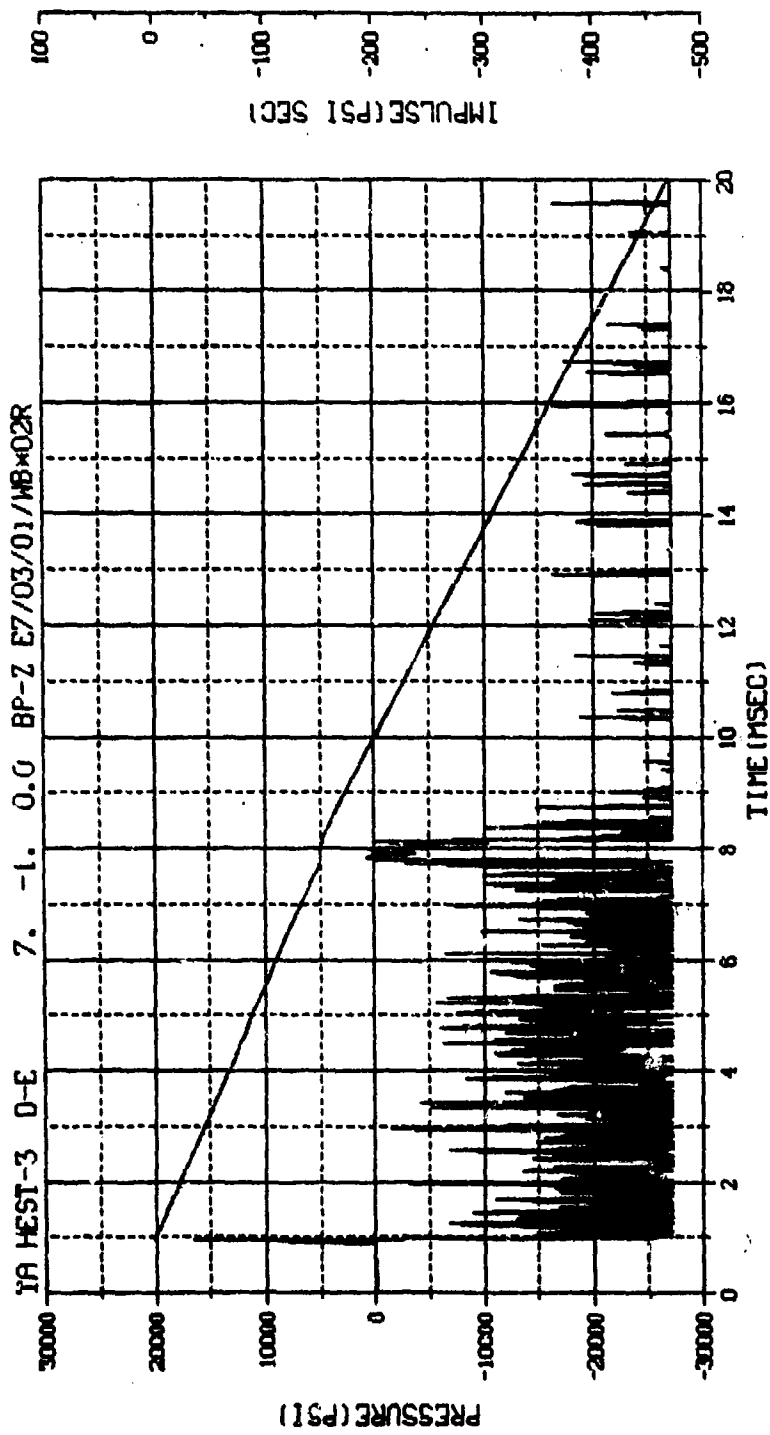


M.N. = 2 E.U. = -0.000,8039.000 VSN =
 SKIP = 12.650 DIGITS = 0.000,598.125 TAPE 22
 S.R. = 100.00 KHZ 8 50 P 2 M 78. FILE = 34



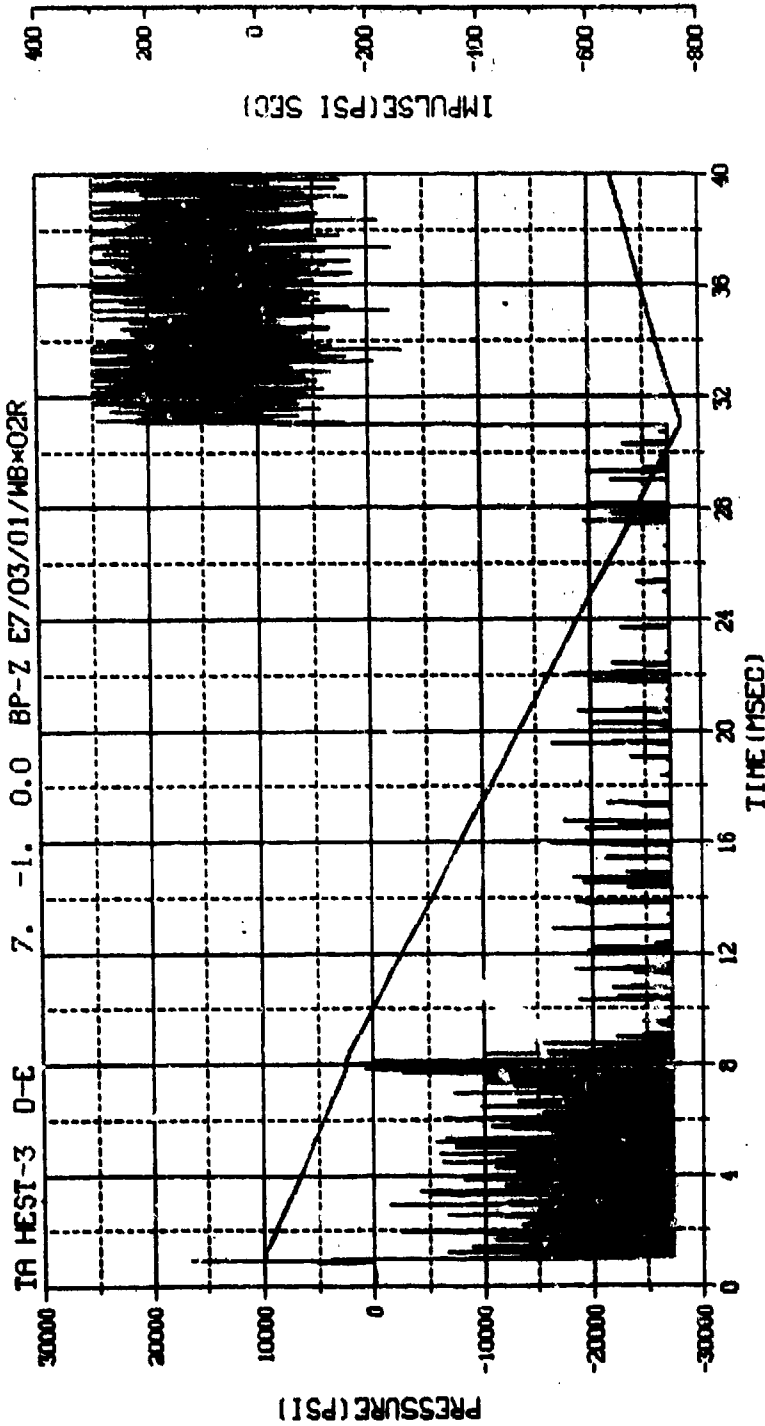
259

M.N. - 2	E.U. -0.030, 8039.000	VSN-
TSKIP-12.640	DIGITS-0.000, 605.375	TAPE22
S.R. -100.00 KHZ	8 50 AM, 2 MAY 78.	FILE-22



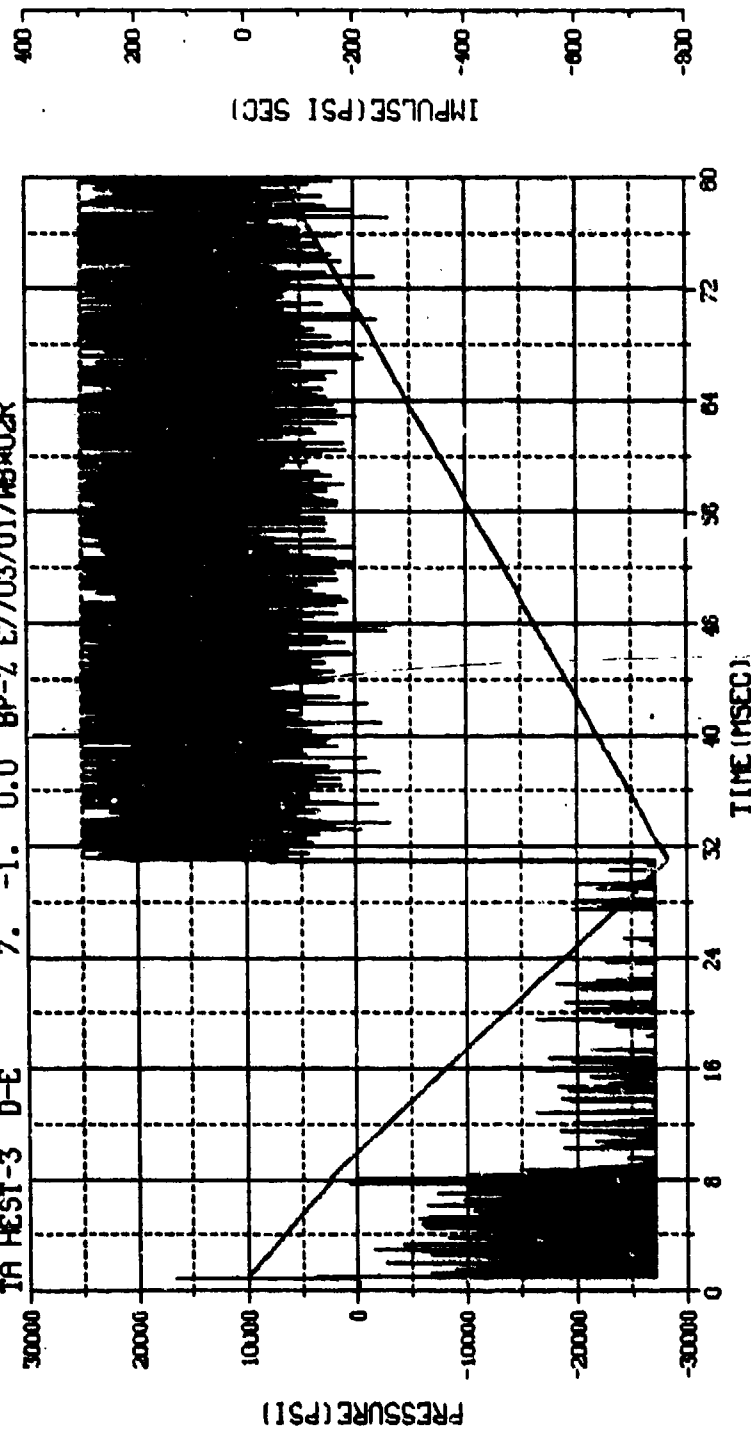
092

M.N. = 2	E.U. = -0.000,8039.000	YSN =
TSKIP = 12.640	DIGITS = 0.000,605.375	TAPE 22
S.R. = 100.00 KHZ	8 50 AM, 2 MAY 78.	FILE = 22

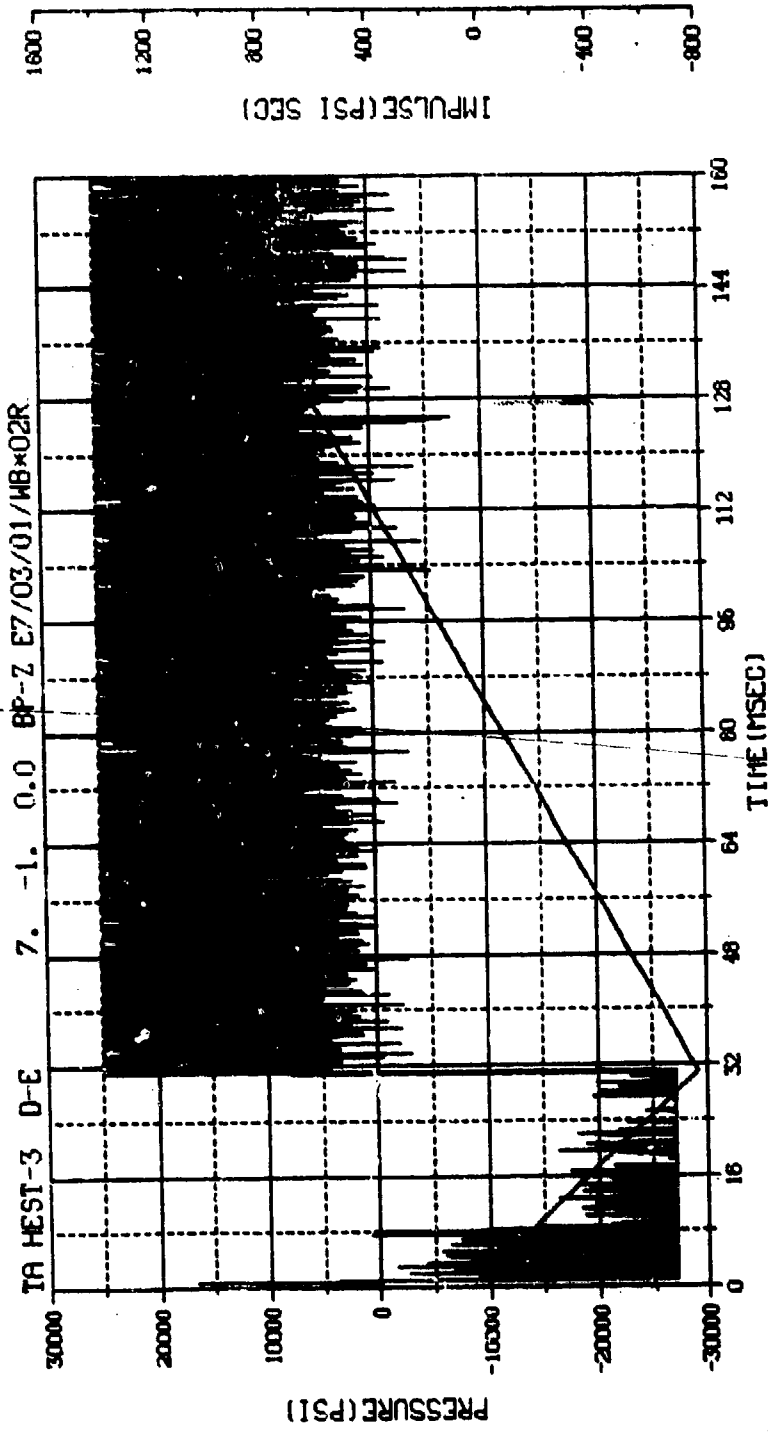


M.N. - 2	E.U. -0.000,8039.000	VSN-
TSKIP-12.640	DIGITS-0.000,605.375	TAPE22
S.R. -100.00 KHZ	8 50 AM, 2 MAY 78.	FILE-22

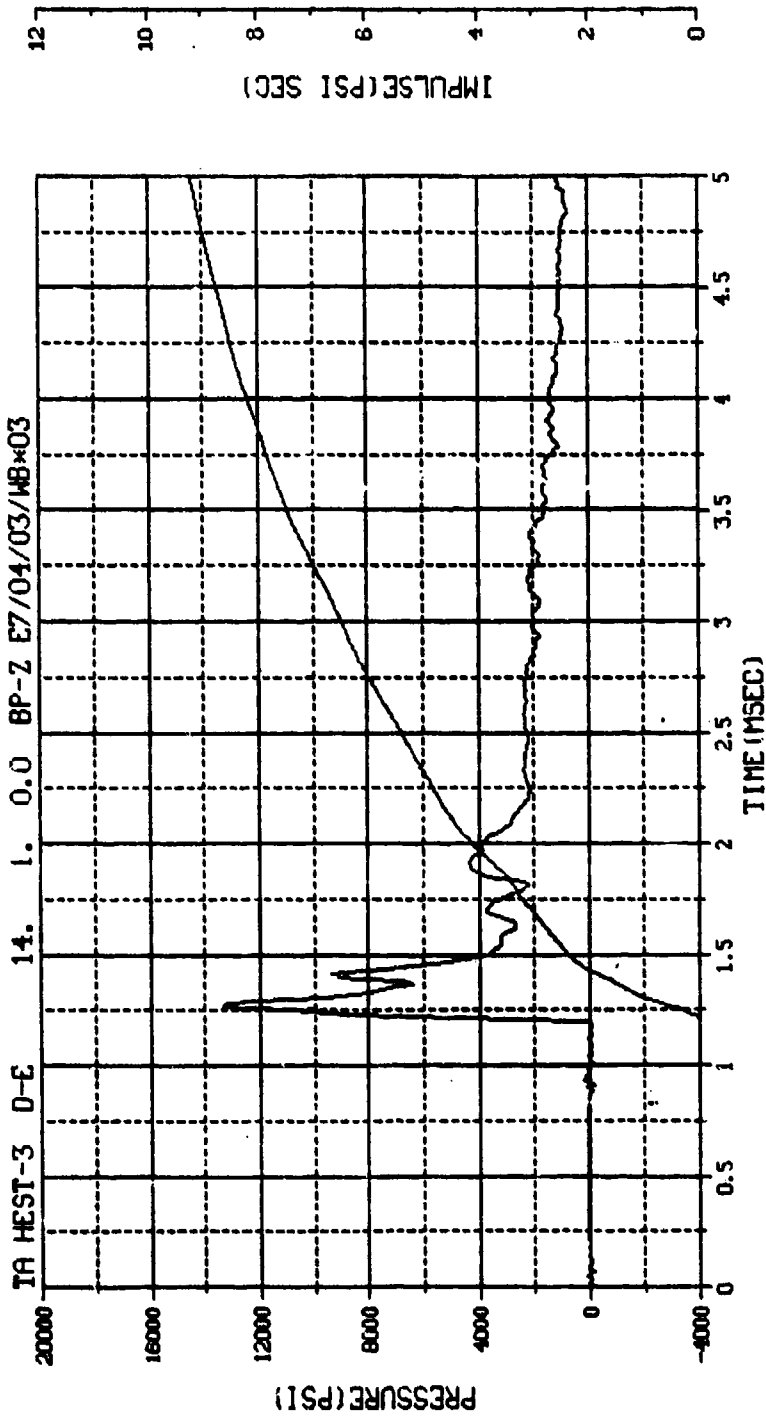
TA HEST-3 D-E 7. -1. 0.0 BP-Z E7/03/01/MB*02R



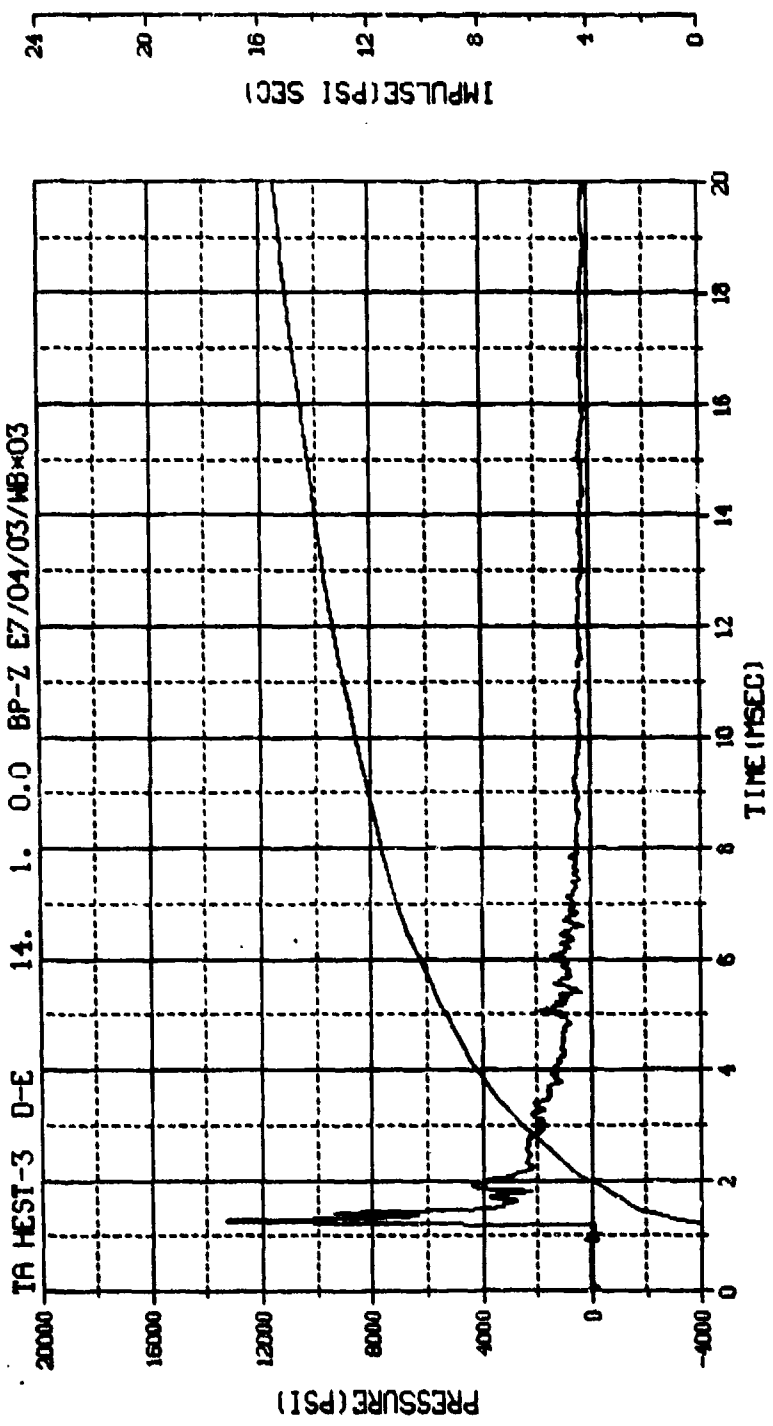
M.N. = 2 E.U. -0.000,8039.000 VSN-
TSKIP-12.640 DIGITS-0.000,605.375 TAPE22
S.R. -100.00 KHZ 8 50 AM, 2 MAY 78. FILE-22
1



M.N. - 2	E.U. -0.000,8039.000	VSN-
TSKIP-12.640	DIGITS-0.000,605.375	TAPE22
S.R. -100.00 KHZ	8 50 AM, 2 MAY 78.	FILE-22

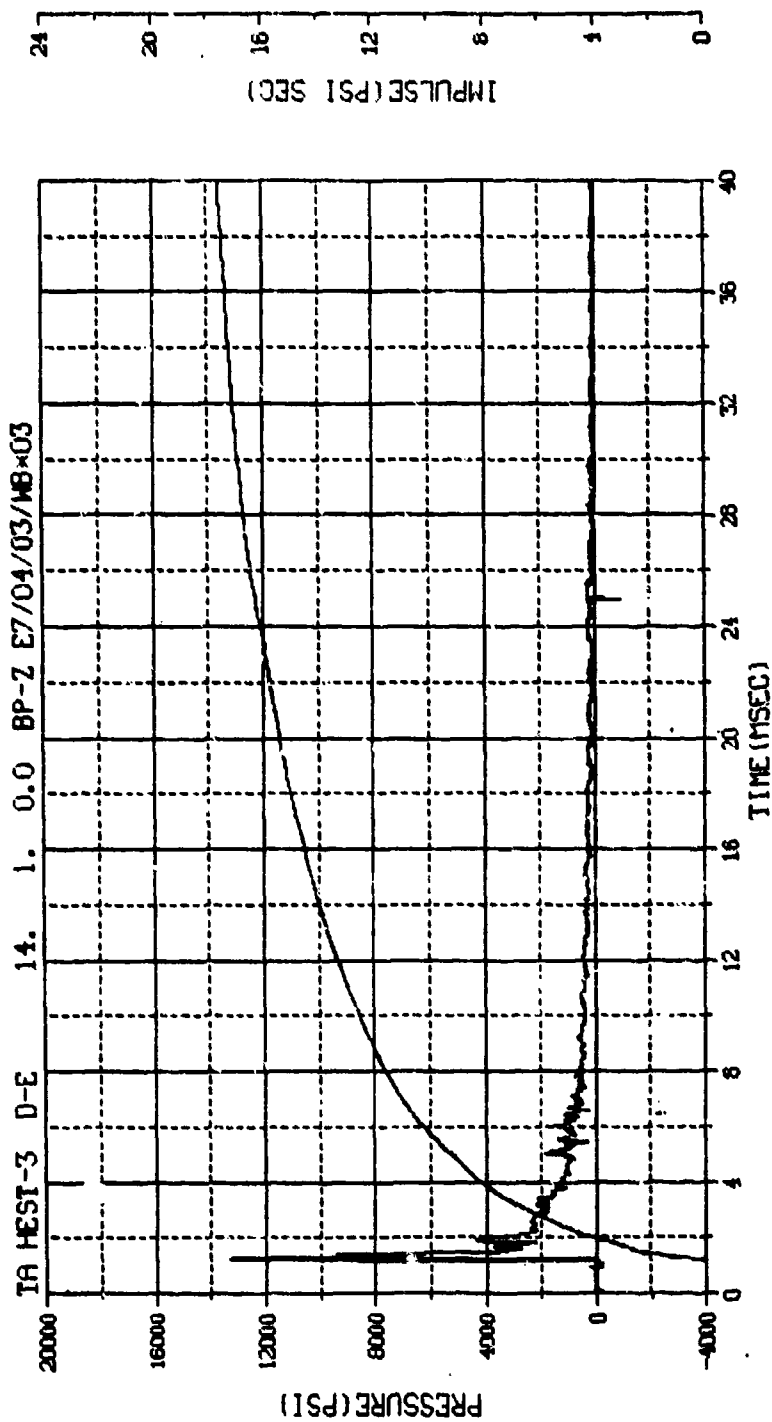


M.N. = 3 E.U. -0.000,7820.000 VSN- ED23
 TSKIP-12.650 DIGITS-0.000,746.875 TAPE22
 S.R. -100.00 KHZ 11 36 AM, 2 MAY 78. FILE-36

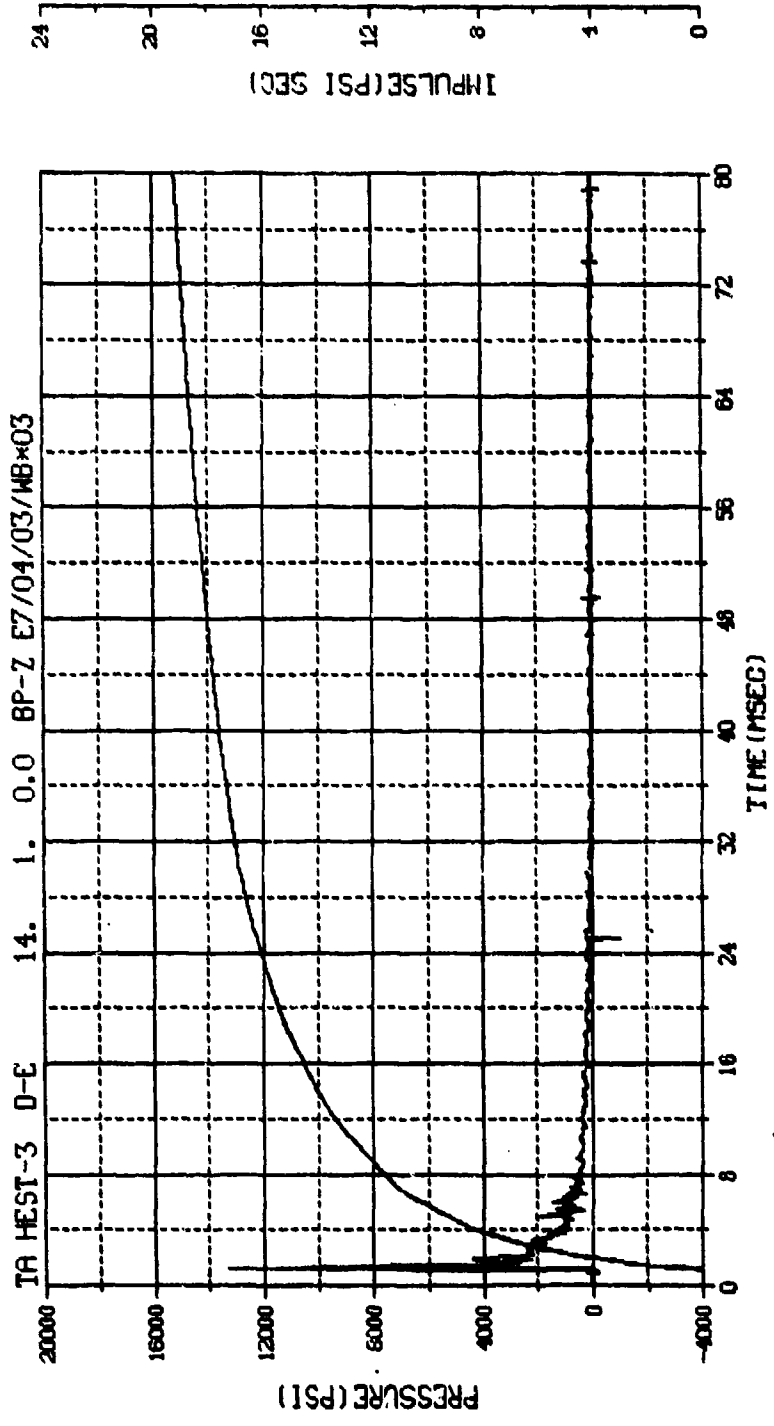


265

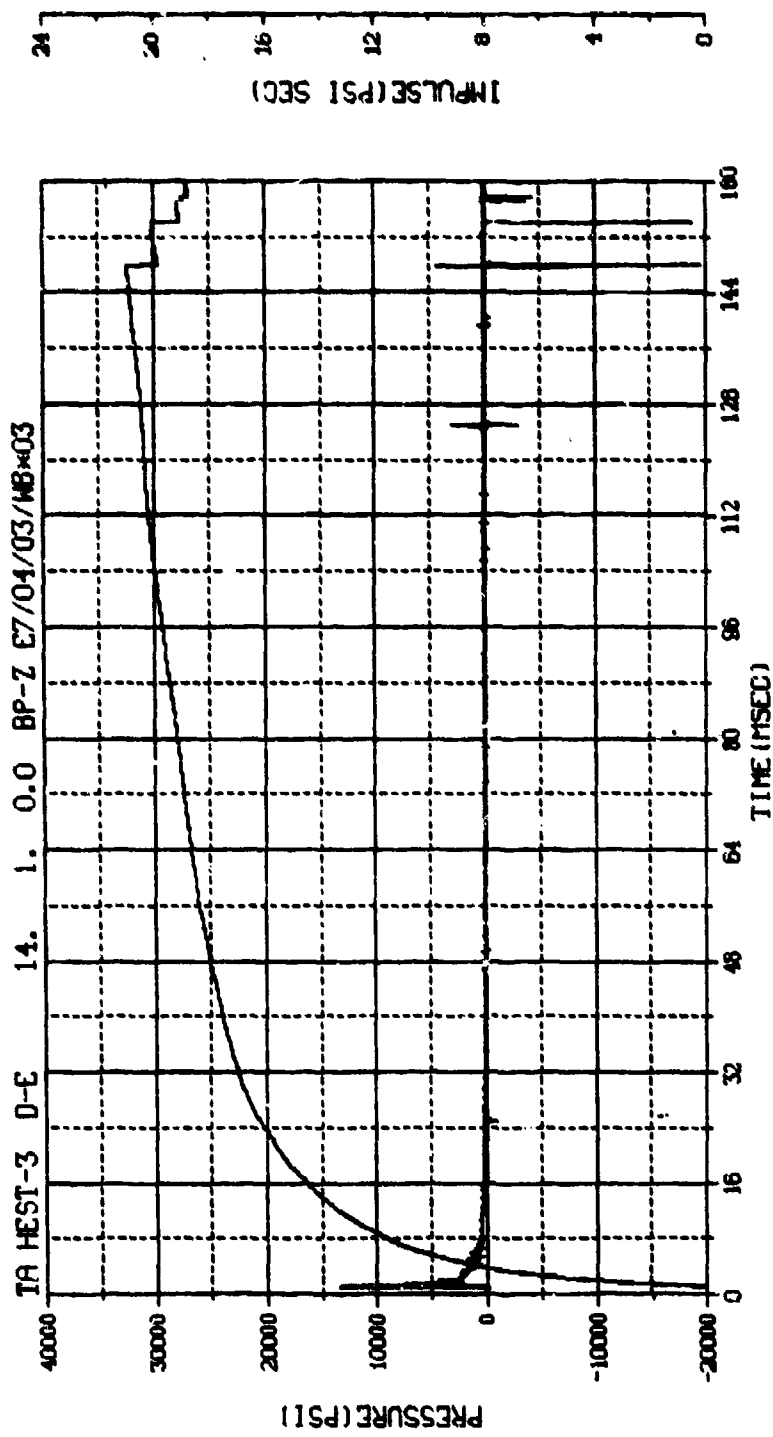
M.N. - 3	E.U. -0.000,7820.000	VSN- ED23
TSKIP-12.650	DIGITS-0.000,746.875	TAPE22
S.R. -100.00 KHZ	11 36 AM, 2 MAY 78.	FILE-36



M.N. - 3	E.U. -0.000,7820.000	VSN-
TSK(IP)-12.650	DIGITS-0.000,746.975	TAPE22
S.R. -100.00 KHZ	8 50 AM, 2 MAY 78.	FILE-36

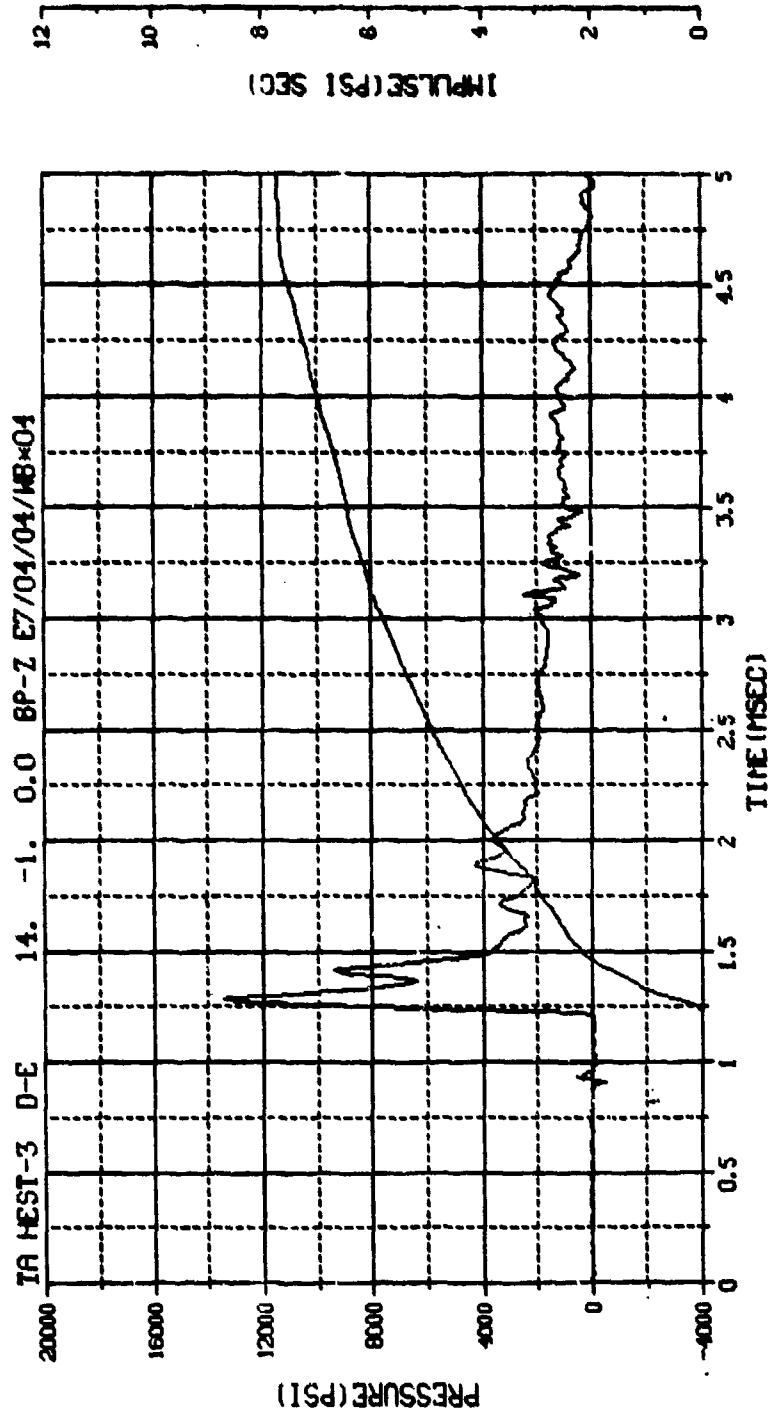


M.N. - 3	E.U. -0.000,7820.000	VSN-
TSKIP-12.650	DIGITS-0.000,746.875	TAPE22
S.R. -100.00 KHZ	8 50 AM, 2 MAY 78.	FILE-36

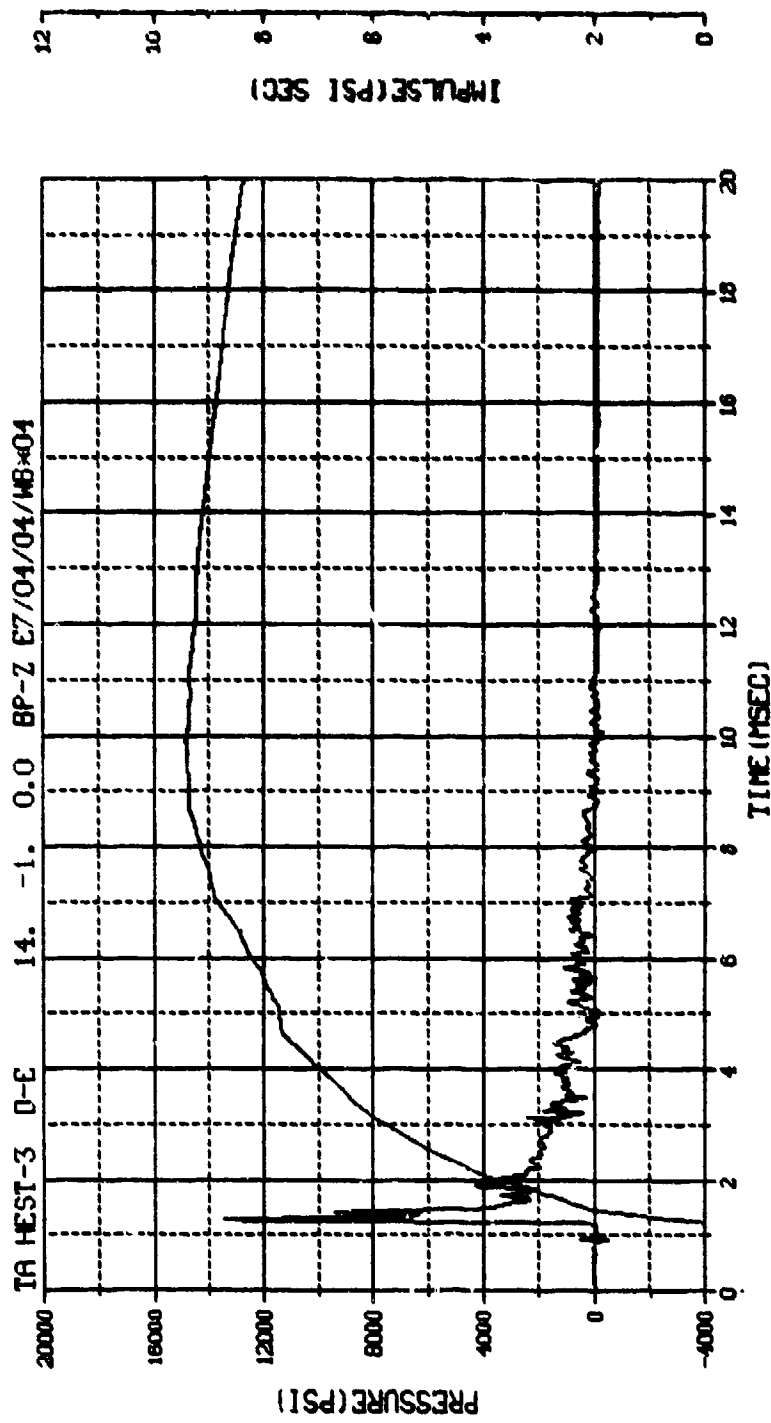


892

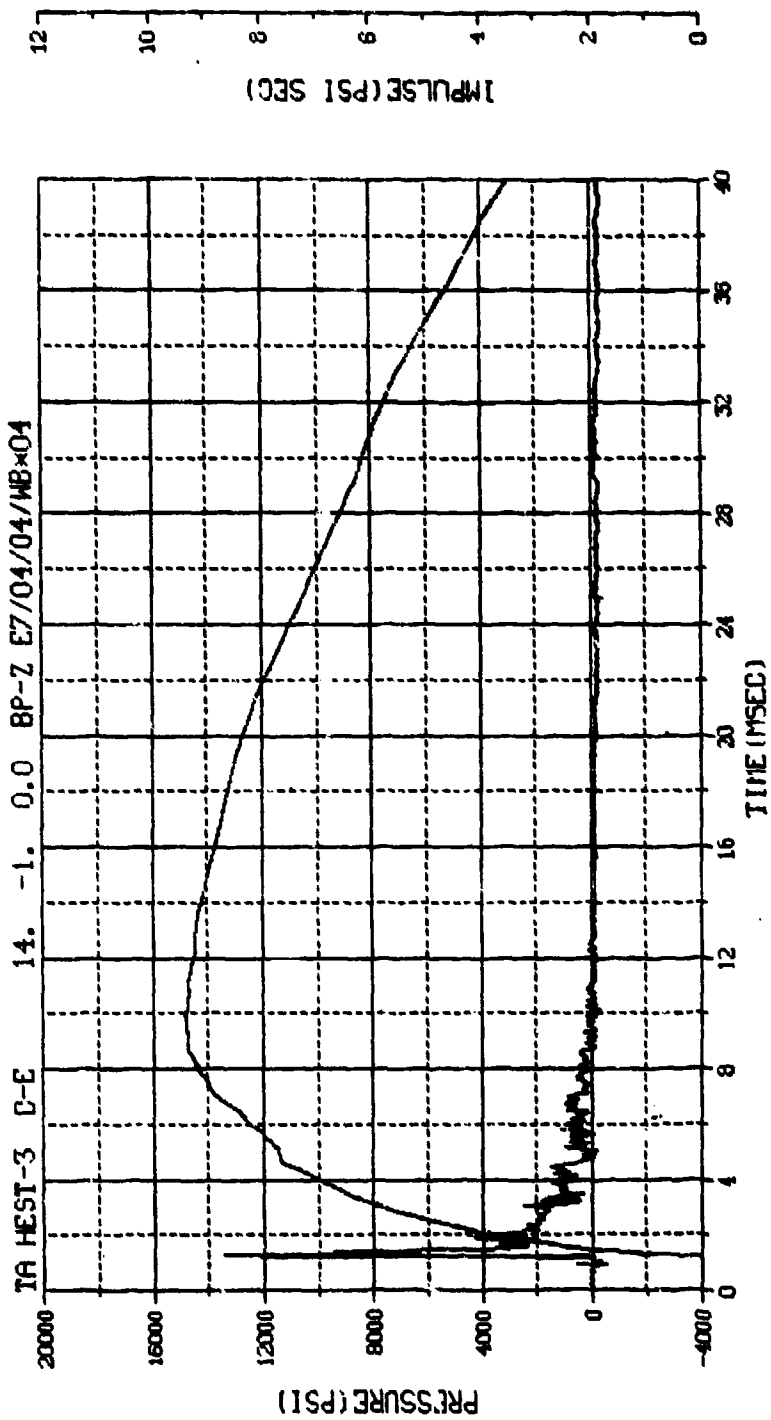
M.N. - 3	E.U. -0.000,7820.000	VSN-
TSKIP-12.650	DIGITS-0.000,746.875	TAPE22
S.R. -100.00 KHZ	8 50 AM, 2 MAY 78.	FILE-36



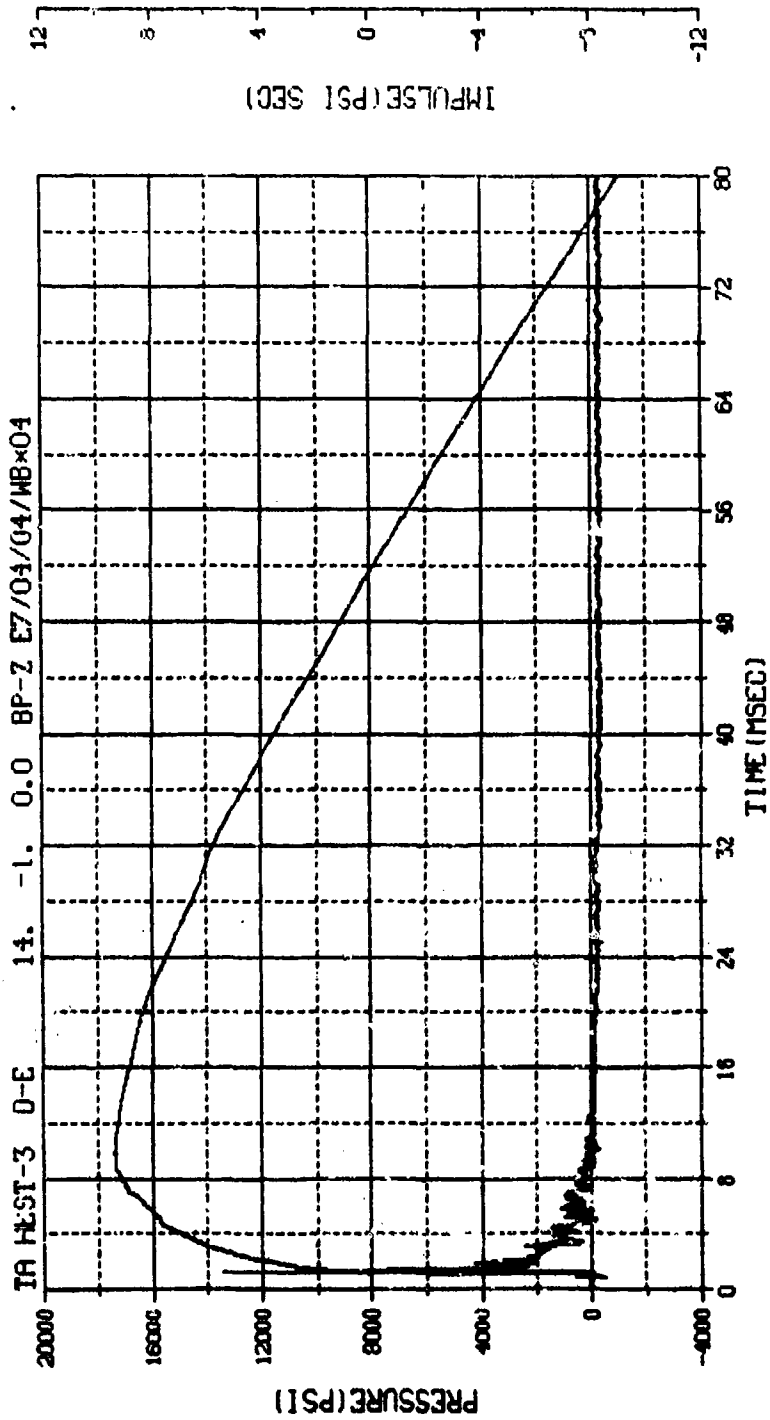
M.N. - 4	E.U. -0.000,9265.000	VSN- ED23
TSKIP-12.650	DIGITS-0.000,692.000	TAPE22
S.R. -100.00 KHZ	11 36 AM, 2 MAY 78.	FILE-38
		1



M.N. = 4	E.U. = -0.000, 9265.000	VSN = ED23
TSKIP = 12.650	DIGITS = 0.000, 692.000	TAPE 22
S.R. = 100.00 KHZ	11 36 AM, 2 MAY 78.	FILE = 38

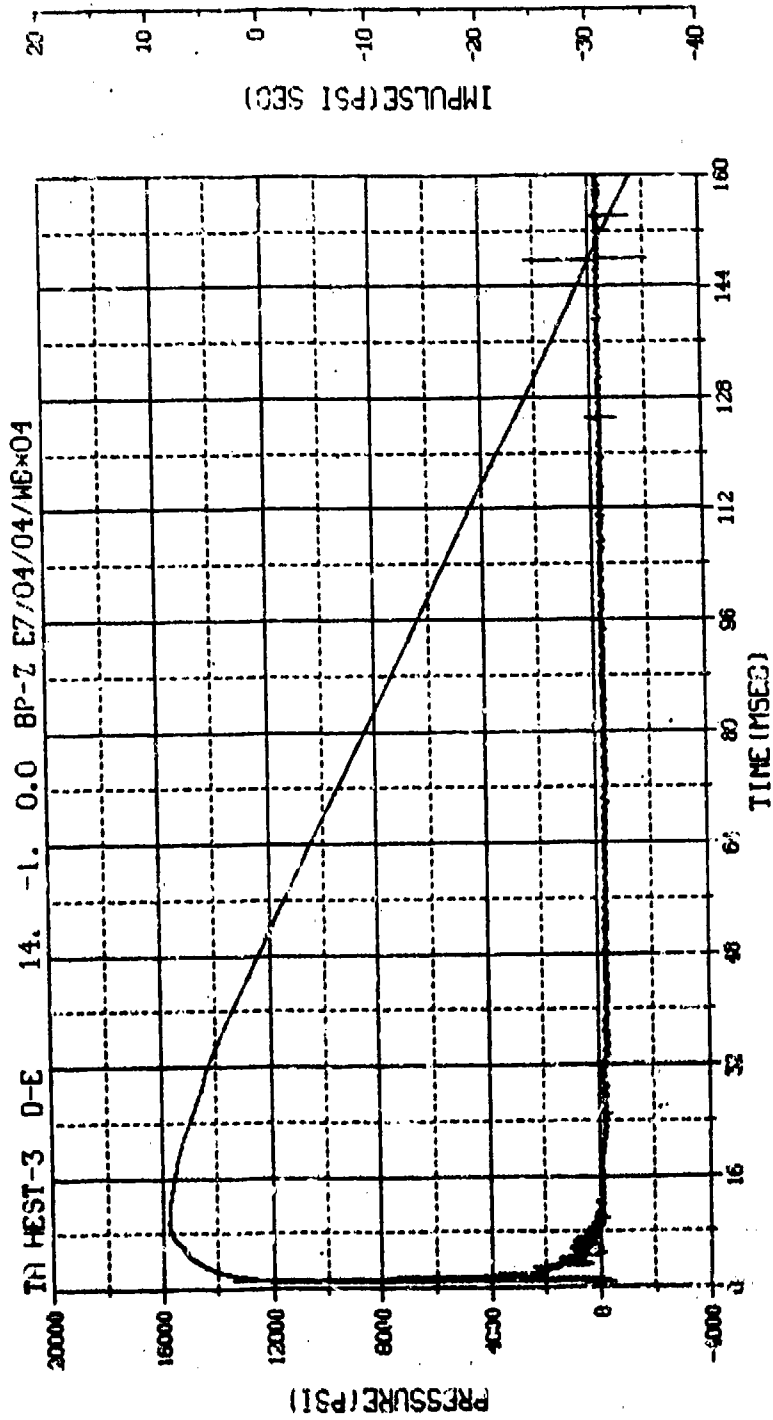


M.N. - 4	E.U. -0.000,9265.000	VSN-
TSKIP-12.650	DIGIT3-0.000,692.000	TAPE22
S.R. -100.00 KHZ	8 50 AM, 2 MAY 78.	FILE-38

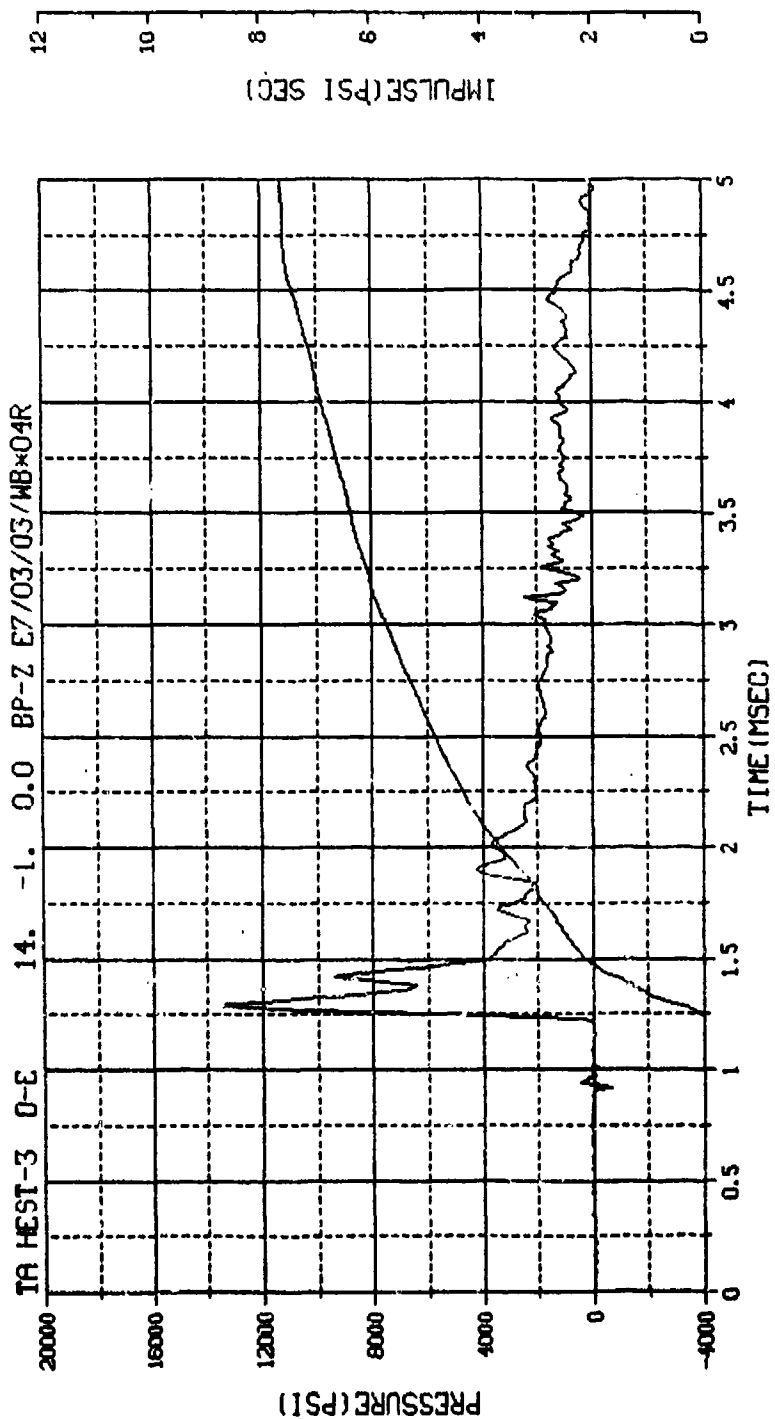


272

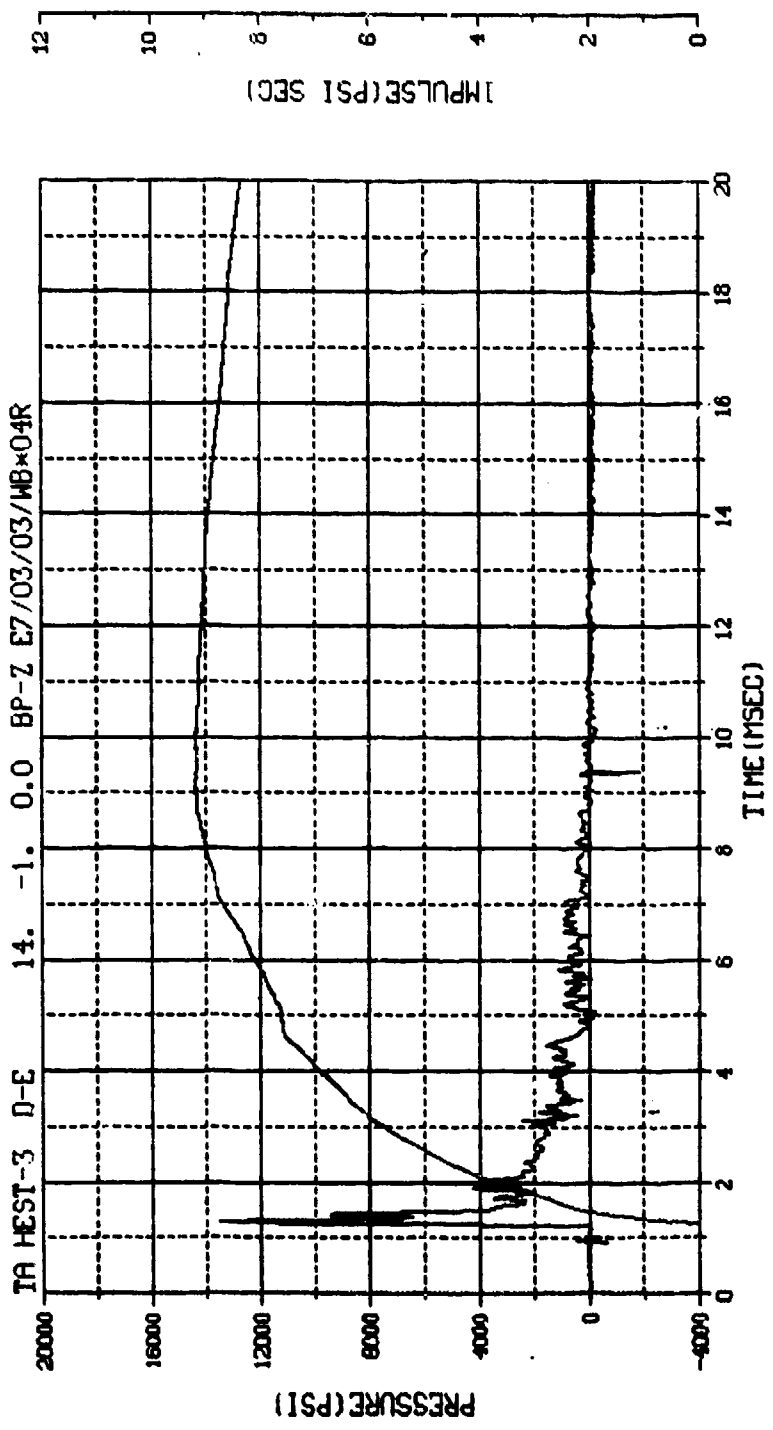
M.N. - 4	E.U. -0.000,9265.000	VSN-
TSK(IP)-12.650	DIGITS-0.000,692.000	TAPE22
S.R. -100.00 KHZ	8 50 AM, 2 MAY 78.	FILE-38



M.N. = 4 E.U. -0.000,9265.000 YSN=
 TSKIP-12.650 DIGITS-0.000,692.000 TAPE22
 S.R. -100.00 KHZ 8 50 AM, 2 MAY 78. FILE-33
 1

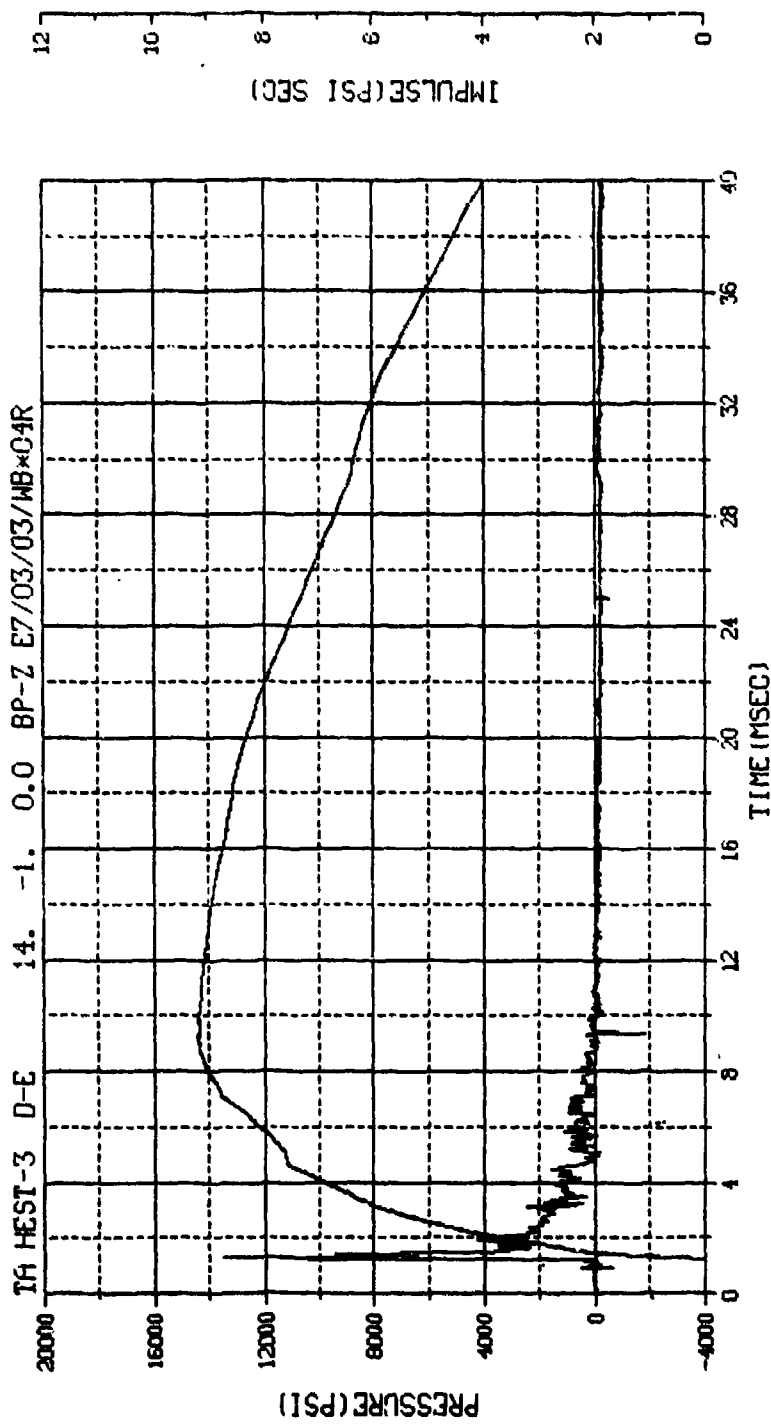


M.N. = 4	E.U. -0.000,9265.000	VSN-
TSKIP-12.640	DIGITS-0.000,680.000	TAPE22
S.R. -100.00 KHZ	8 50 AM, 2 MAY 78.	FILE-24



275

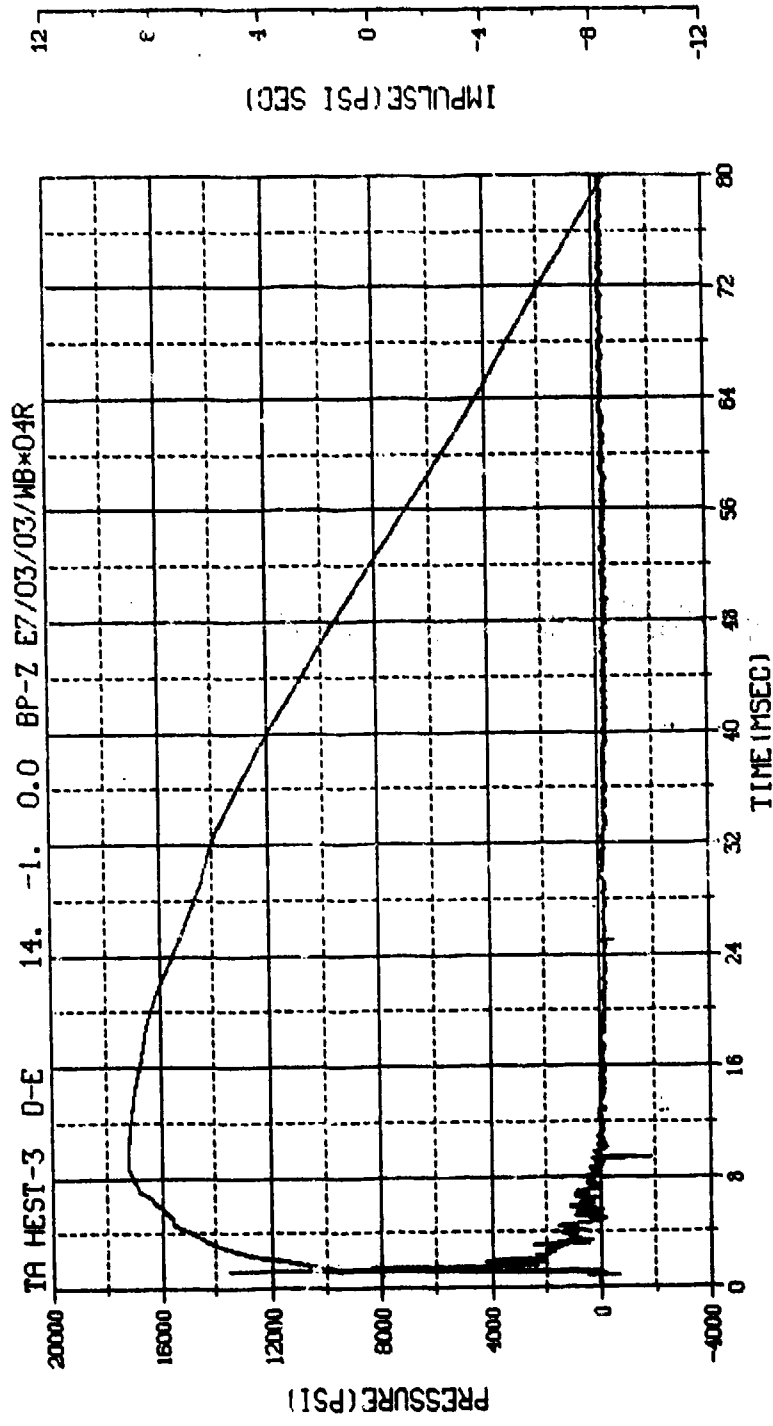
M.N. - 4 E.U. -0.000,9265.000 VSN-
 TSKIP-12.640 DIGITS-0.000,680.000 TAPE22
 S.R. -100.00 KHZ 8 50 AM, 2 MAY 78. FILE-24



M.N. - 4
 TSKIF-12.640
 S.R. -100.00 KHZ

E.U. -0.000,9265.000
 DIGITS-0.000,680.000
 8 50 AM, 2 MAY 78.

VSN=
 TAPE22
 FILE-24
 1

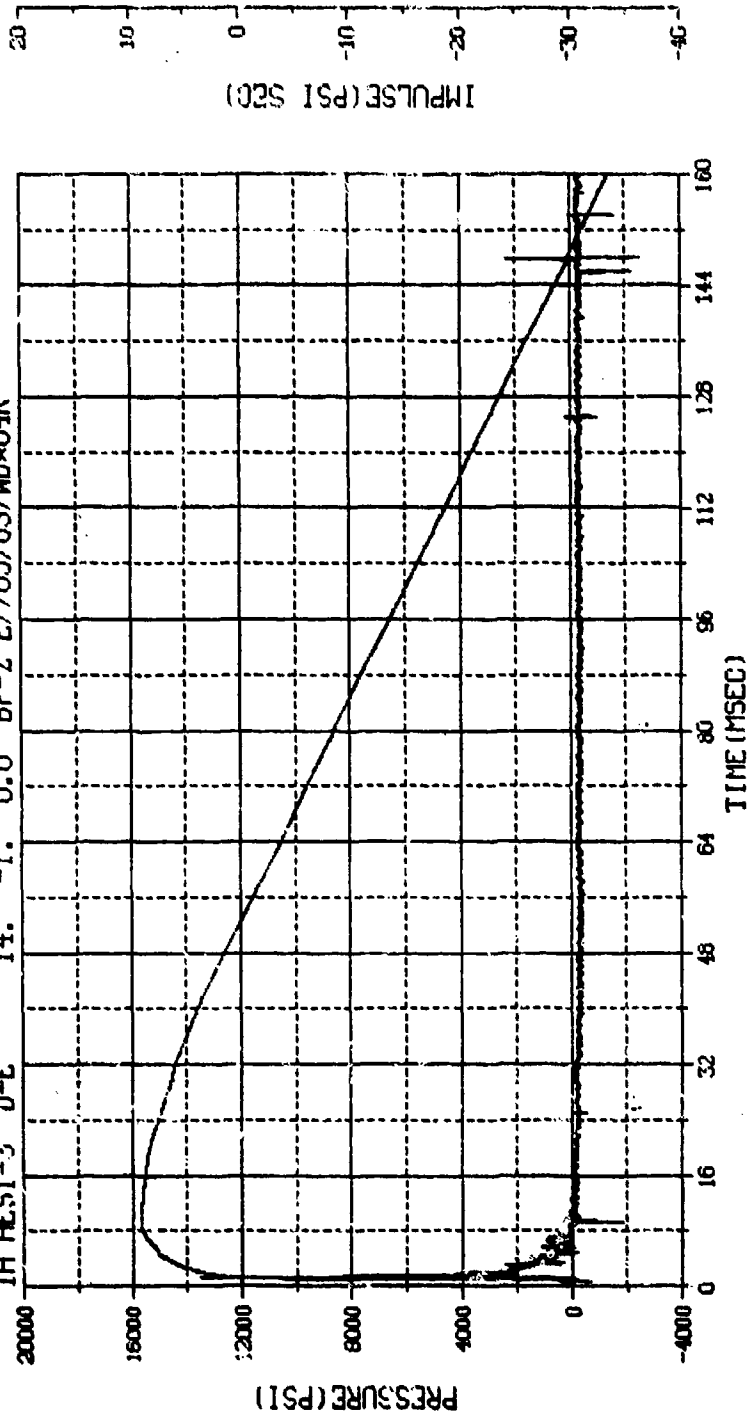


M.N. = 4
 TSKIP-12.640
 S.R. -100.00 KHZ

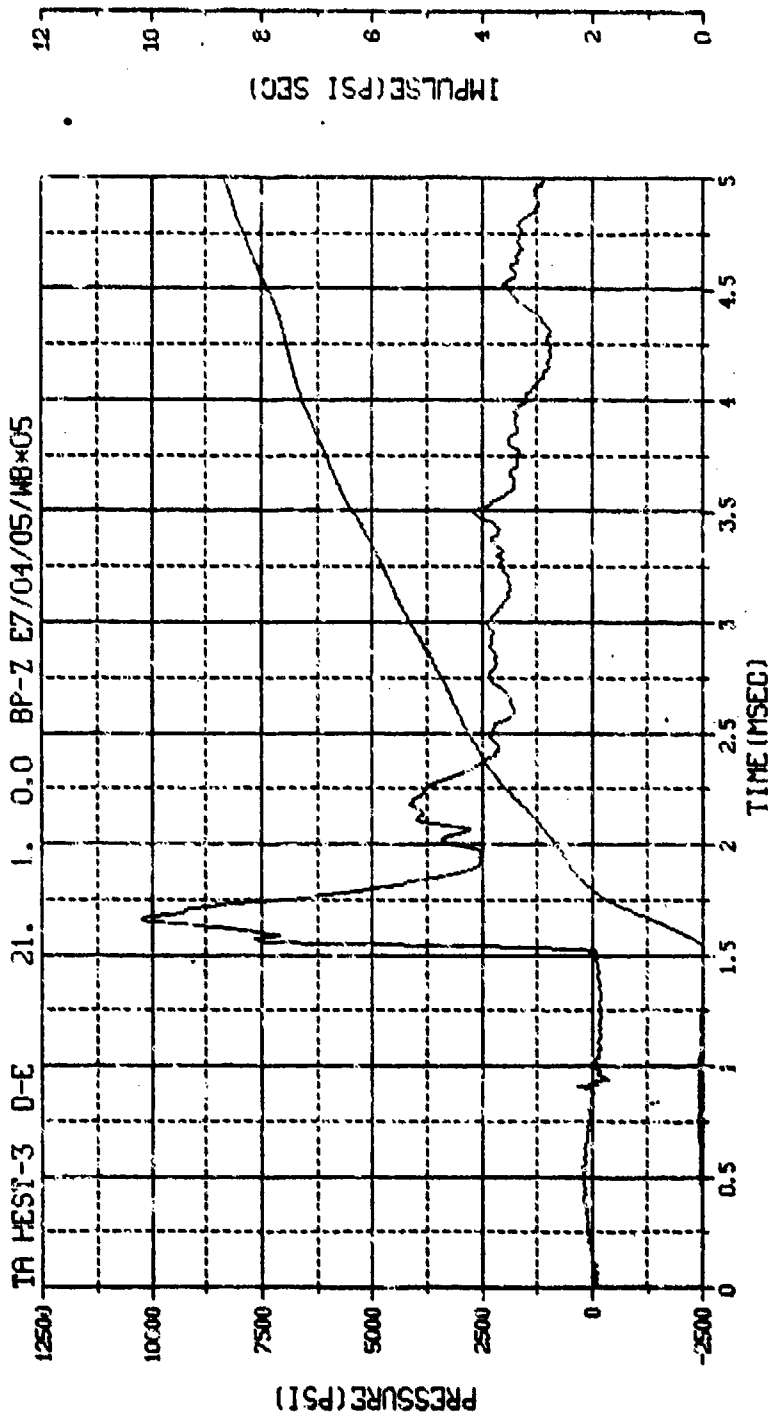
E.U. -0.000, 9265.000
 DIGITS-0.000, 680.000
 8 50 AM, 2 MAY 78.

VSN=
 TAPE22
 FILE-24

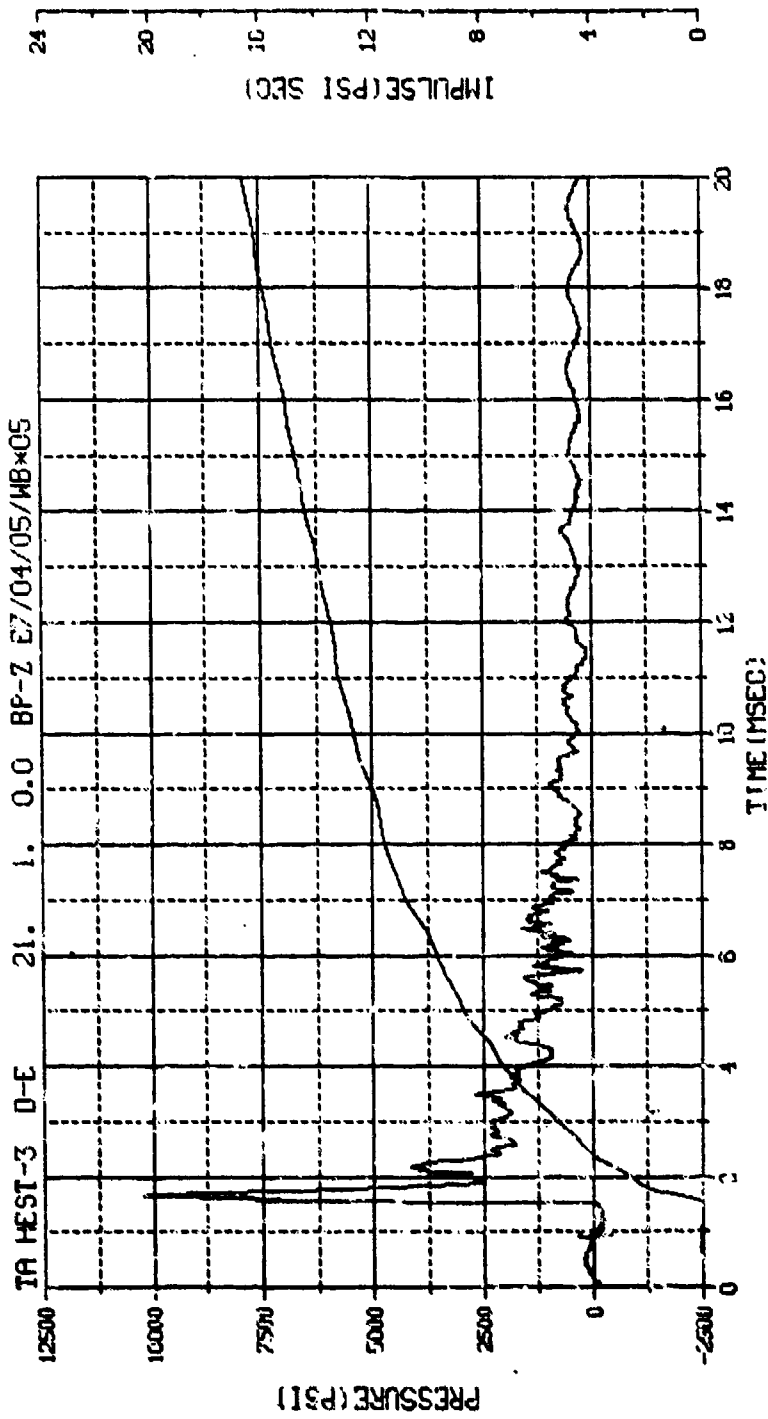
IA HEST-3 D-E 14. -1. 0.0 BP-Z E7/03/03/MB*04R



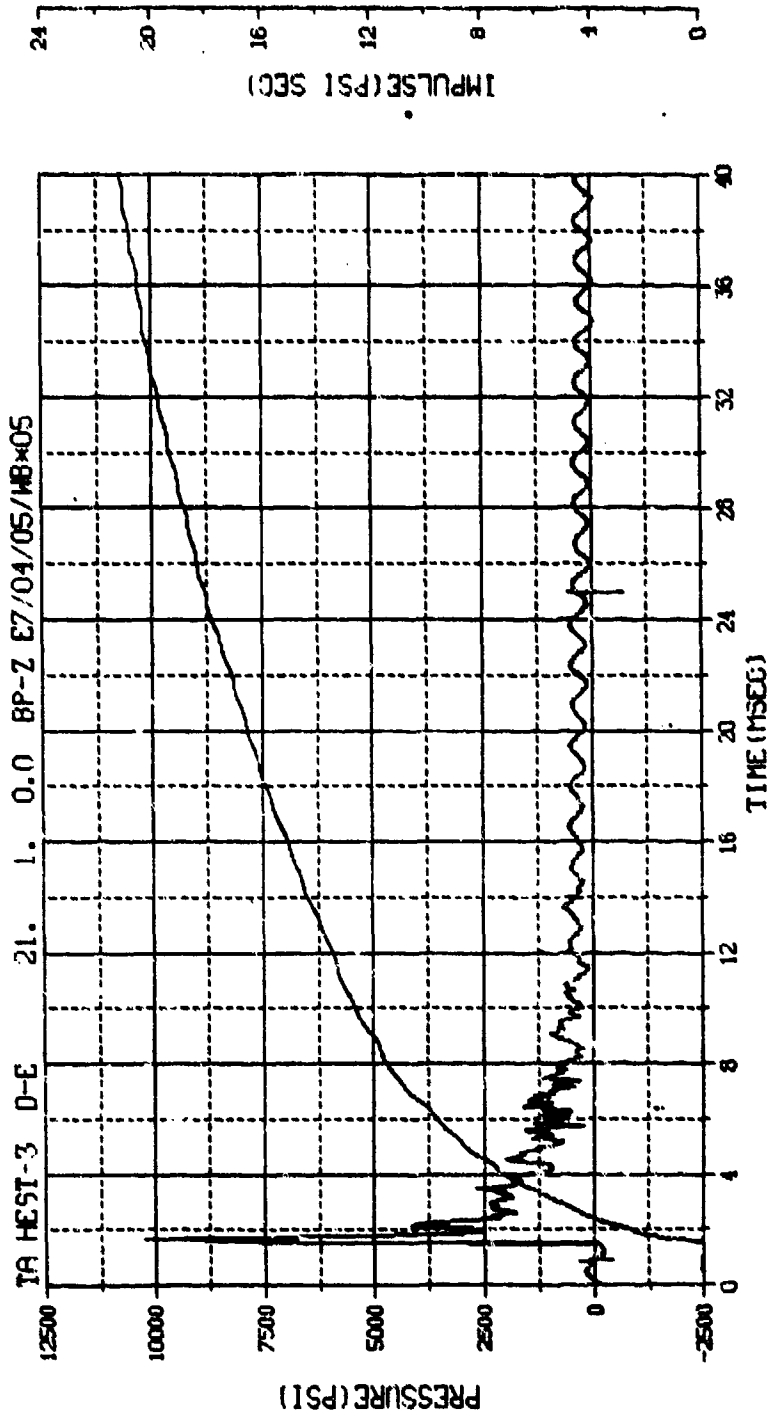
M.N. = 4	E.U. = -0.000,9265.000	VSN-
TSKIP=12.640	DIGITS=-0.000,680.000	TAPE22
S.R. = 100.00 KHZ	8 50 AM, 2 MAY 78.	FILE=24



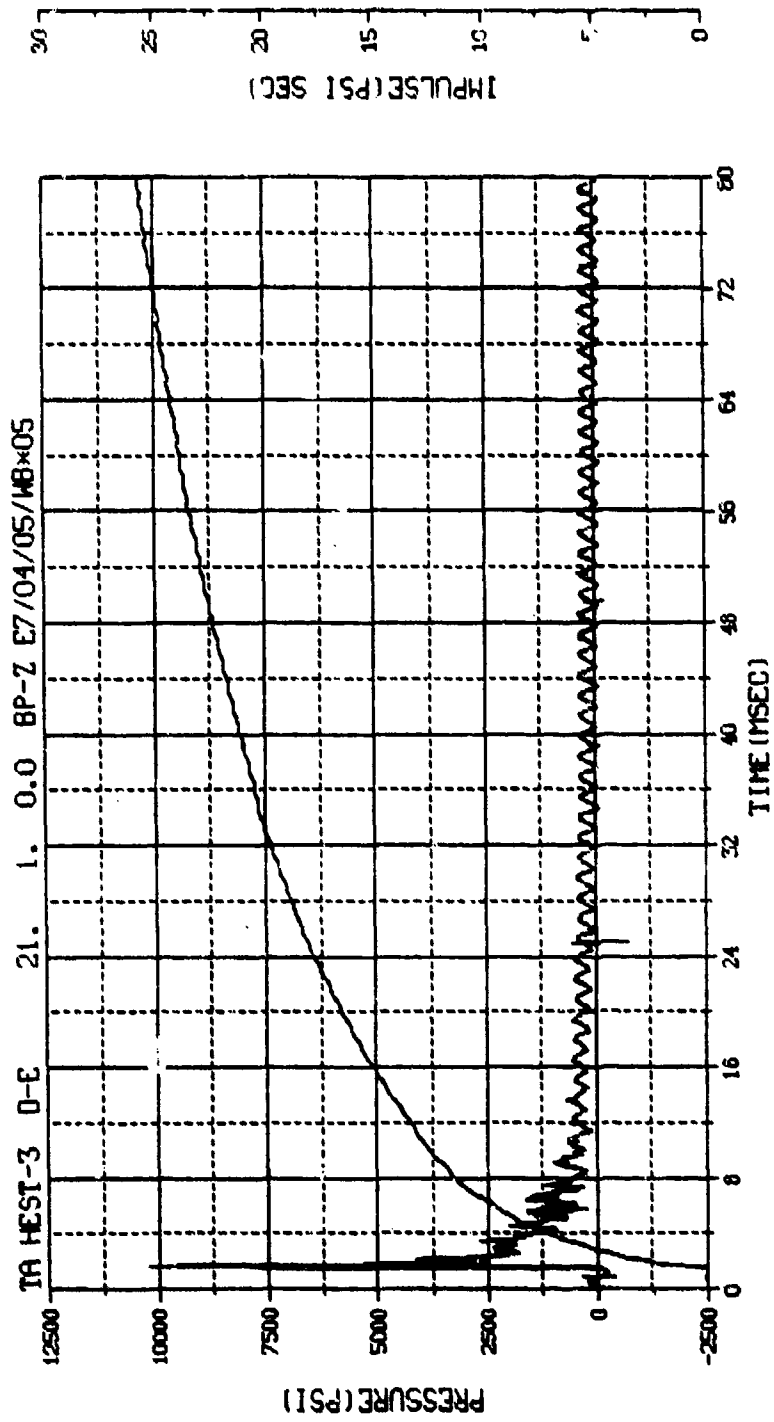
M.N. - 5	E.U. -0.000,7095.000	VSN- ED23
TSKIP-12.650	DIGITS-0.000,756.000	TAPE22
S.R. -100.00 KHZ	11 36 AM, 2 MAY 78.	FILE-40
		1



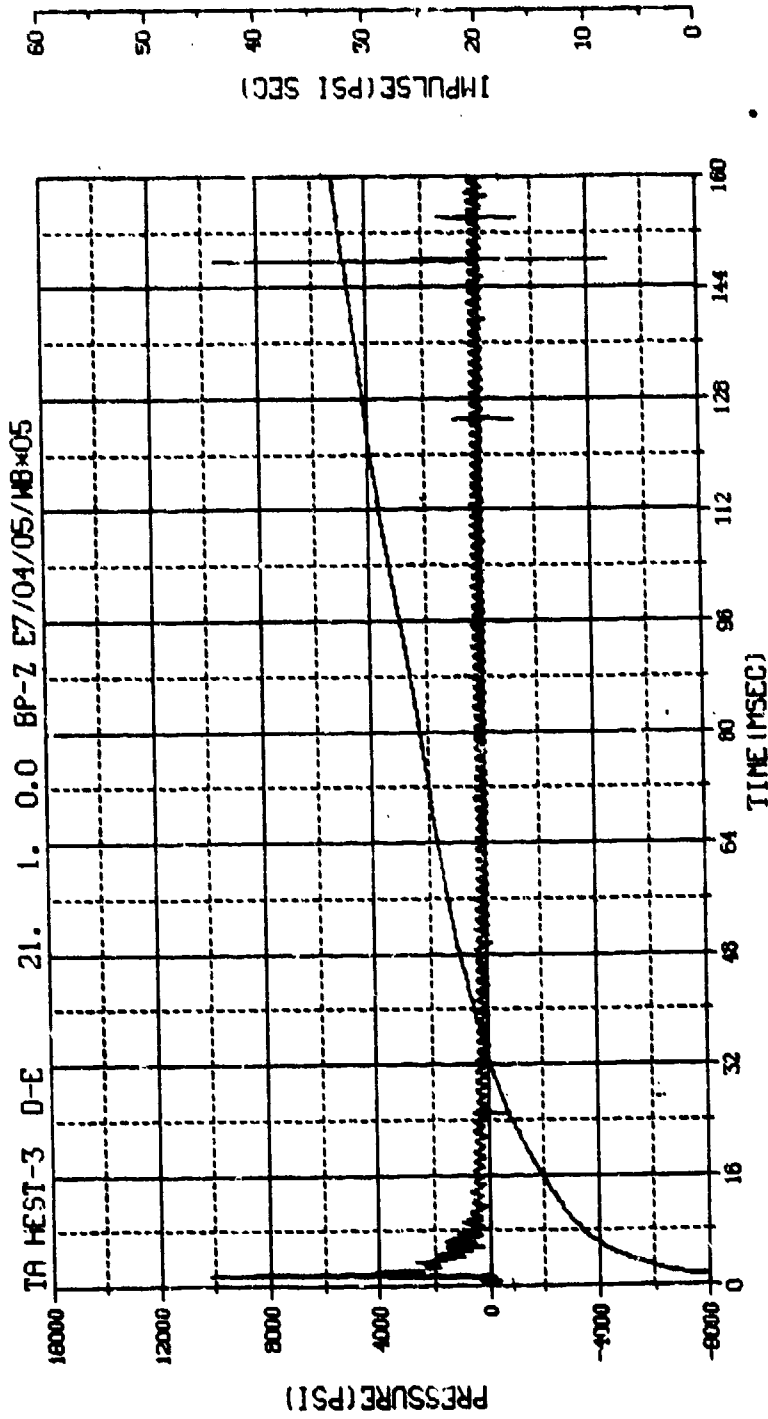
M.N. = 5	E.U. = -0.000,7095.000	VSN = ED23
TSKIP = 12.650	DIGITS = 0.000,756.000	TAPE 22
S.R. = 100.00 KHZ	11 36 AM, 2 MAY 78.	FILE = 40



M.N. = 5	E.U. = -0.000,7095.000	VSN=
TSKIP = 12.650	DIGITS = 0.000,756.000	TAPE22
S.R. = 100.00 KHZ	8 50 AM, 2 MAY 78.	FILE=40



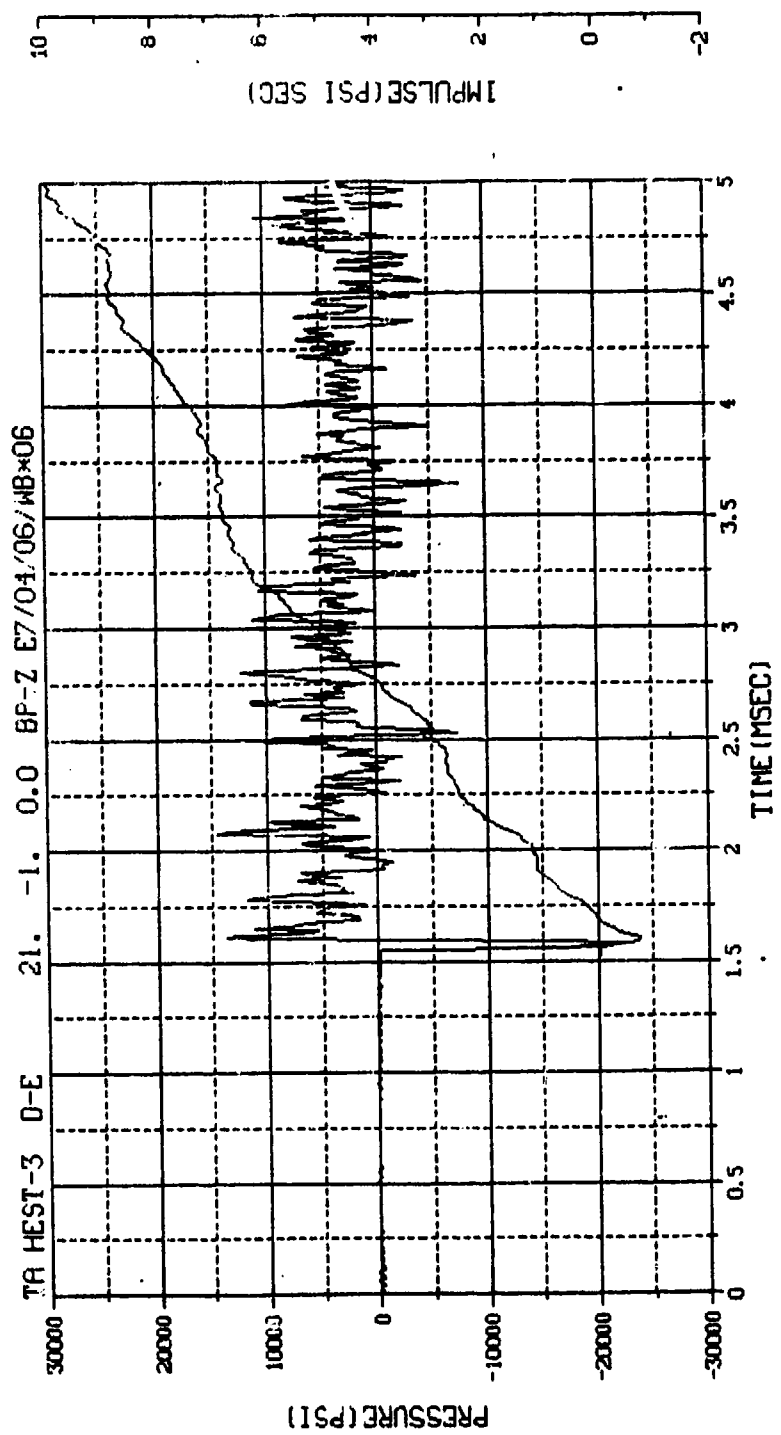
M.N. 5 E.U. -0.000,7095.000 VSN-
 TSKIP-12.650 DIGITS-0.000,756.008 TAPE22
 S.R. -100.00 KHZ 8 50 AM, 2 MAY 78. FILE-40
 1



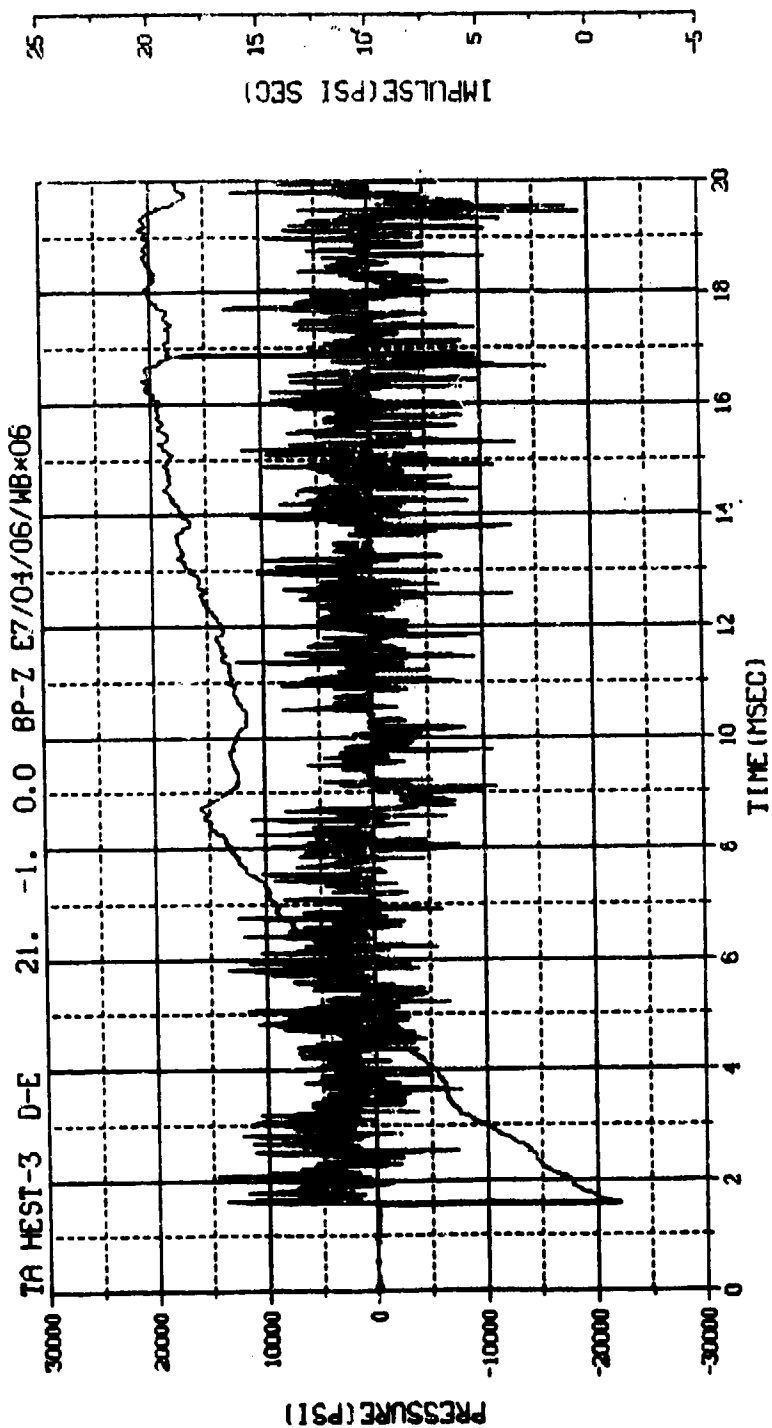
M.N. = 5
 TSKIP=12.650
 S.R. =100.00 KHZ

E.U. =-0.000,7095.000
 DIGITS=0.000,756.000
 . 8 50 AM, 2 MAY 78.

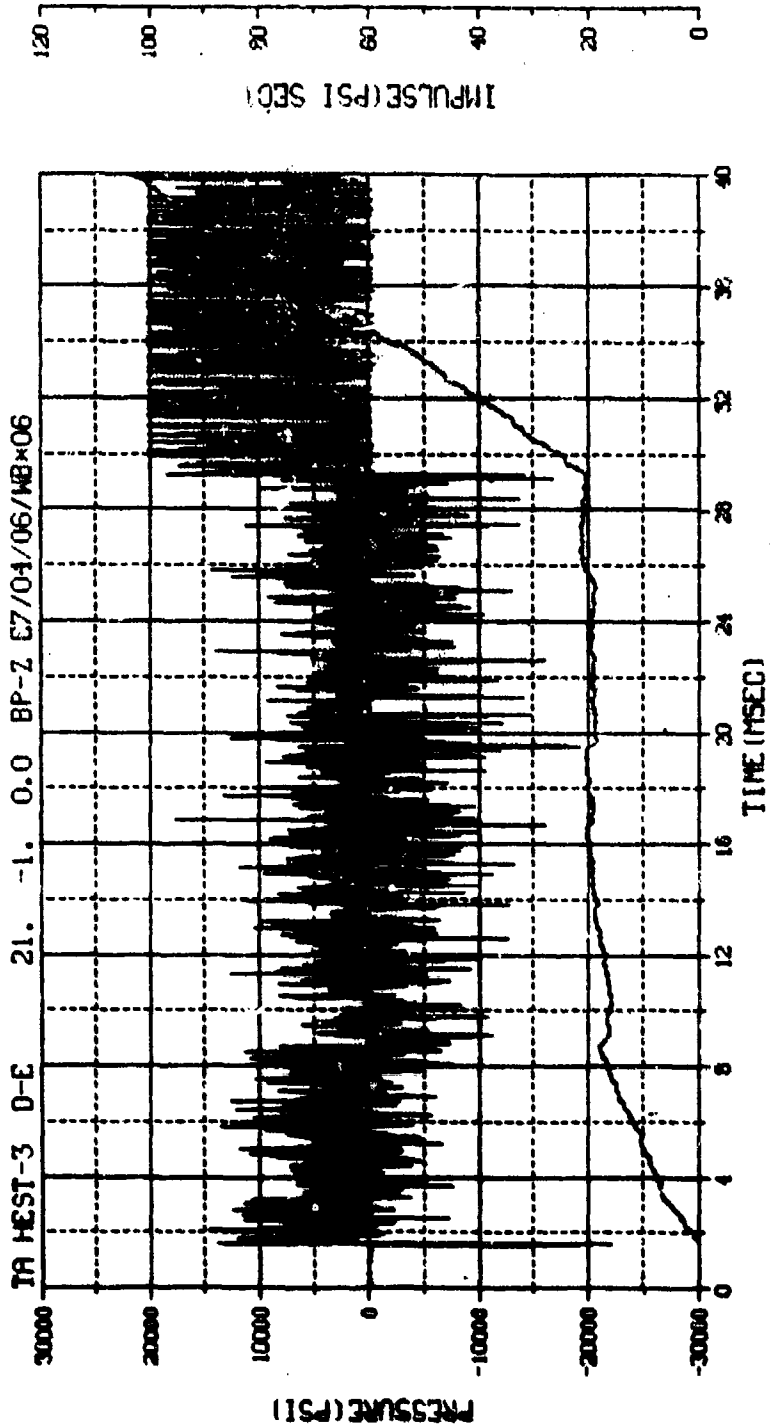
VSN=
 TAPE22
 FILE=40



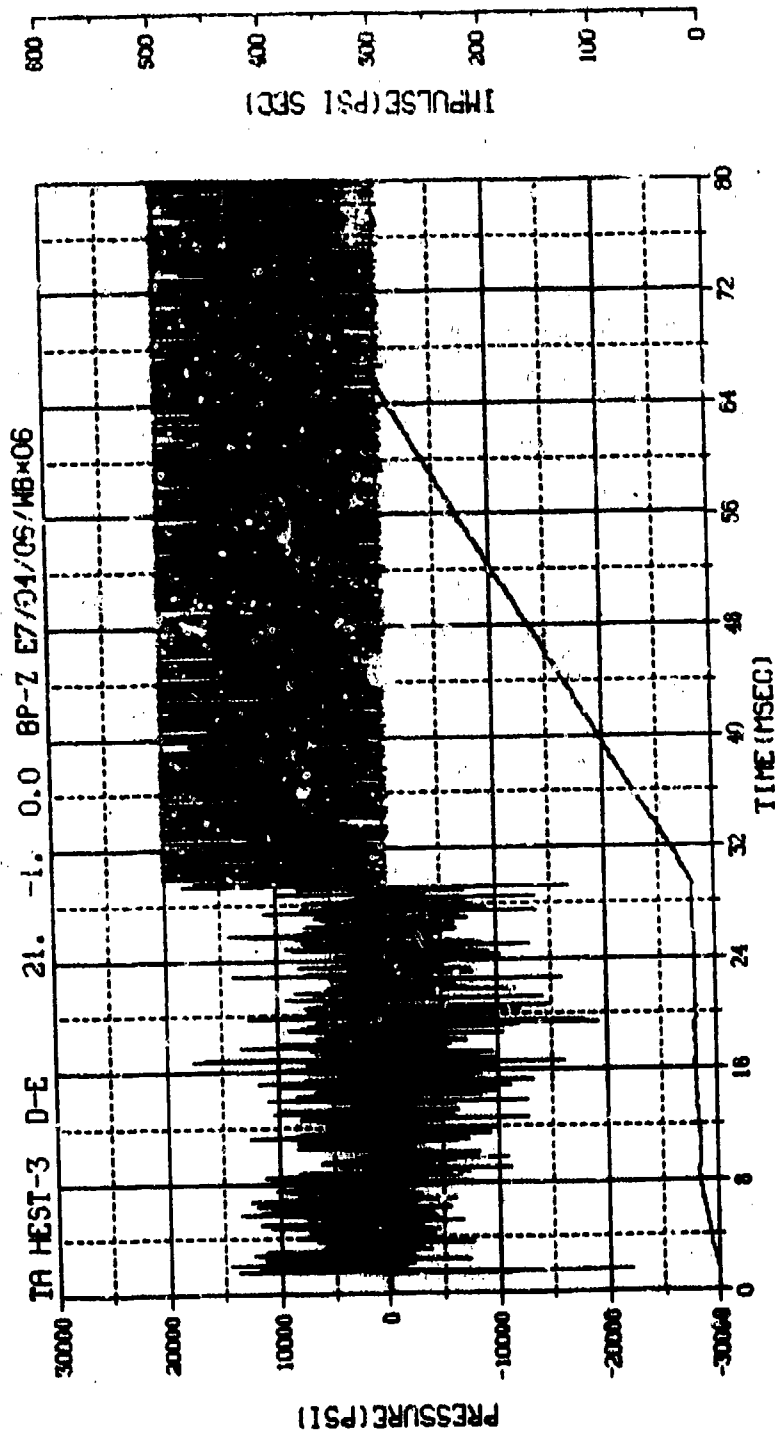
M.N. = 6	E.U. = -0.000,6532.000	VSN = ED23
TSKIP = 12.650	DIGITS = 0.000,606.000	TAPE 22
S.R. = 100.00 KIHZ	11 36 AM, 2 MAY 78.	FILE = 42
		1



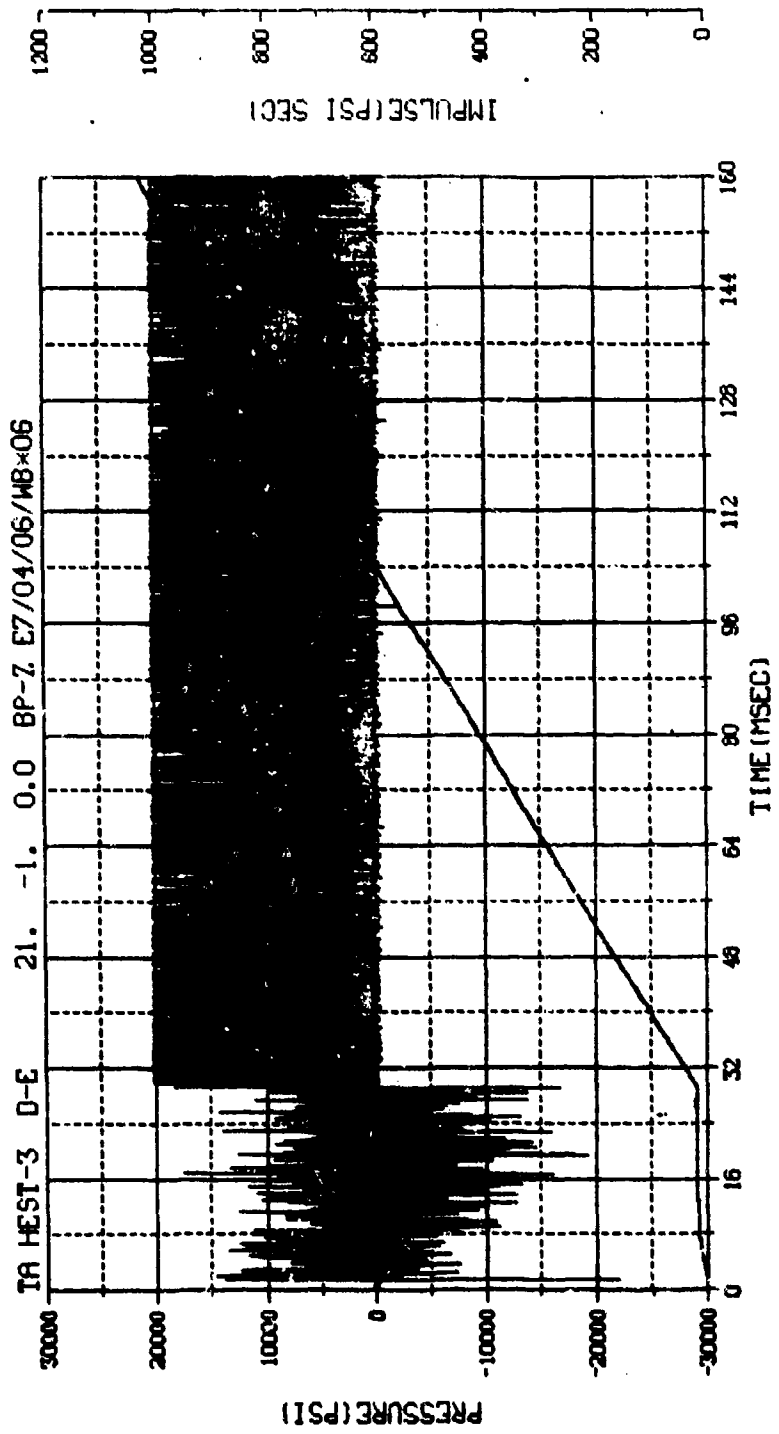
M.N. - 6	E.U. -0.000,6532.000	VSN- ED23
TSKIP-12.650	DIGITS-0.000,606.000	TAPE22
S.R. -100.00 KHZ	11 36 AM, 2 MAY 78.	FILE-42



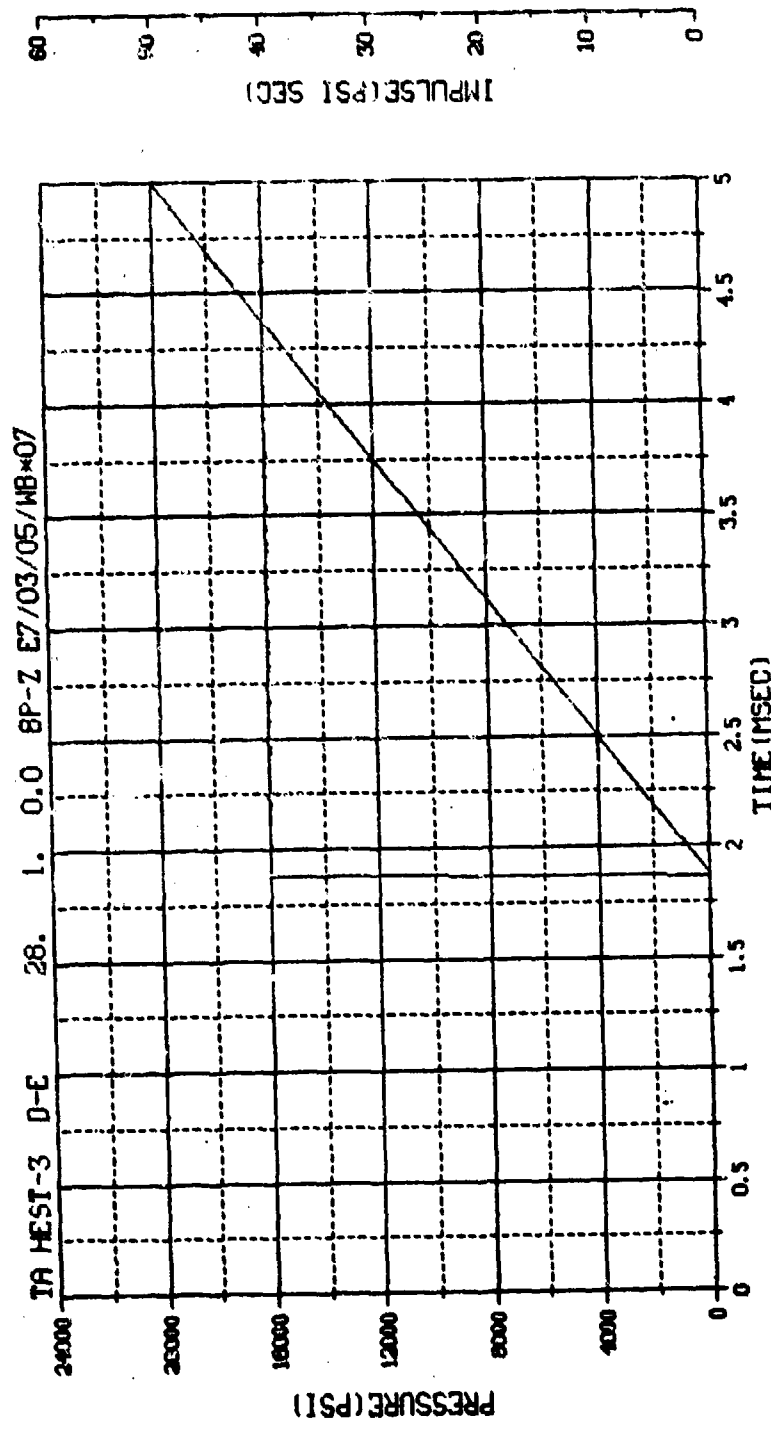
M.N. - 6	E.U. -0.000,6532.000	VSN-
TSKIP-12.650	DIGITS-0.000,606.000	TAPE22
S.R. -100.00 KHZ	8 50 AM, 2 MAY 78.	FILE-42



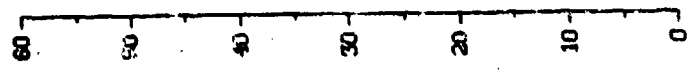
M.N. - 6	E.U. -0.000,6532.000	VSN-
TSKIP-12.650	DIGITS-0.000,606.000	TAPE22
S.R. -100.00 KHZ	8 50 AM, 2 MAY 78.	FILE-42



M.N. - 6	E.U. -0.000,6532.000	VSN-
TSKIP-12.650	DIGITS-0.000,606.000	TAPE22
S.R. -100.00 KHZ	8 50 AM, 2 MAY 78.	FILE-42
		1

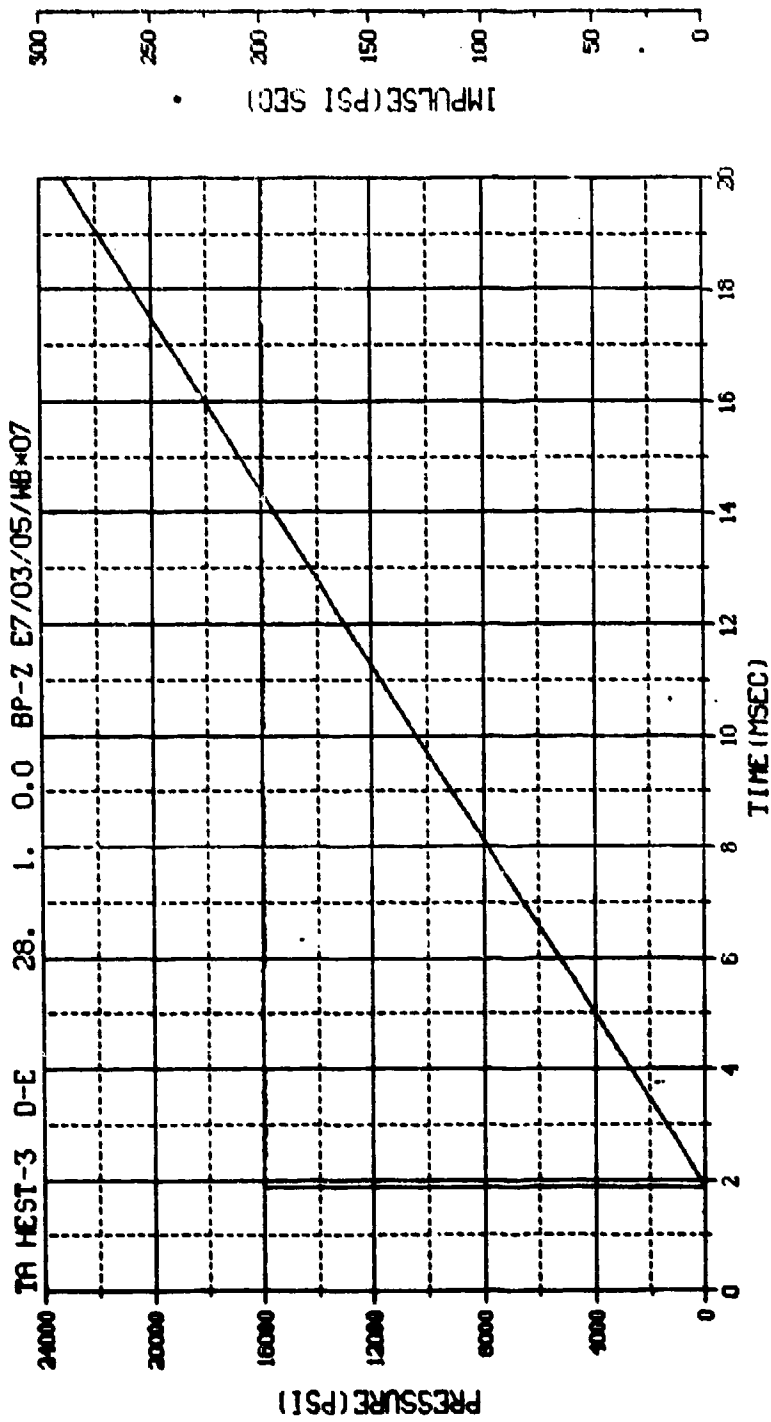


IMPULSE (PSI SEC)

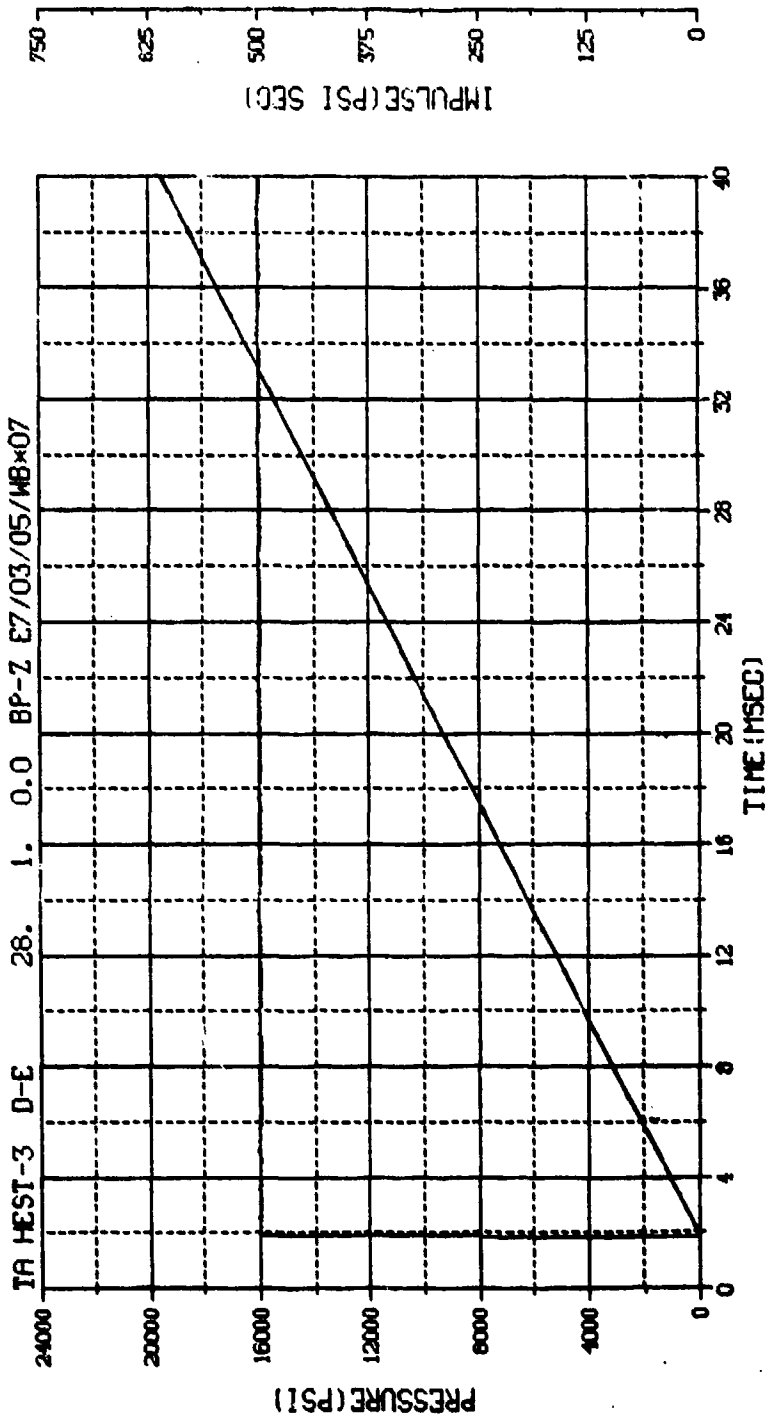


289

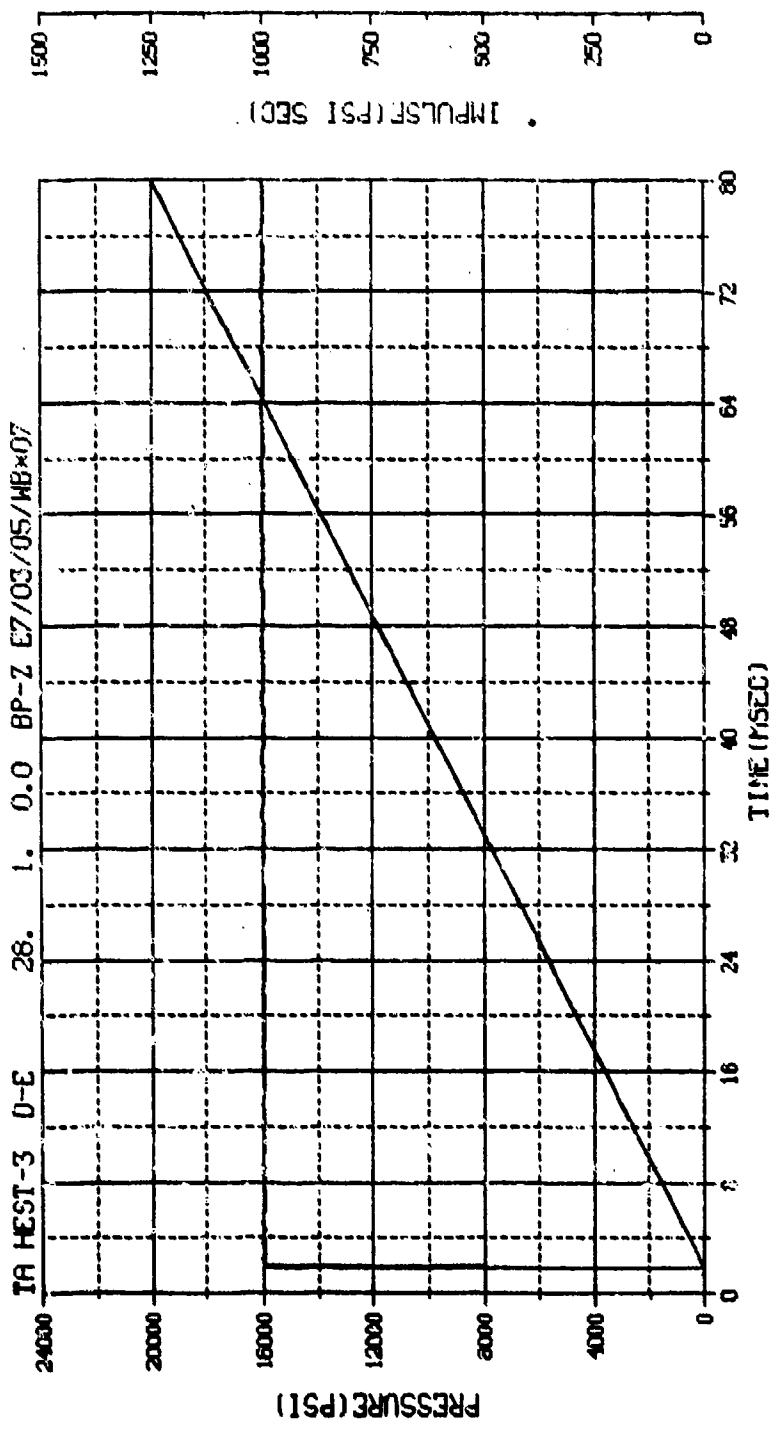
M.N. - 7 E.U. -0.000,6583.000 VSN-
 TSKIP-12.640 DIGITS-0.000,724.000 TAPE22
 S.R. -100.00 KHZ 8 50 AM, 2 MAY 78. FILE-26
 1



M.N. = 7 E.U. = -0.000,6583.000 VSN=
 TSKIP=12.640 DIGITS=0.000,724.000 TAPE22
 S.R. =100.00 KHZ 8 50 FM, 2 MAY 78. FILE=26



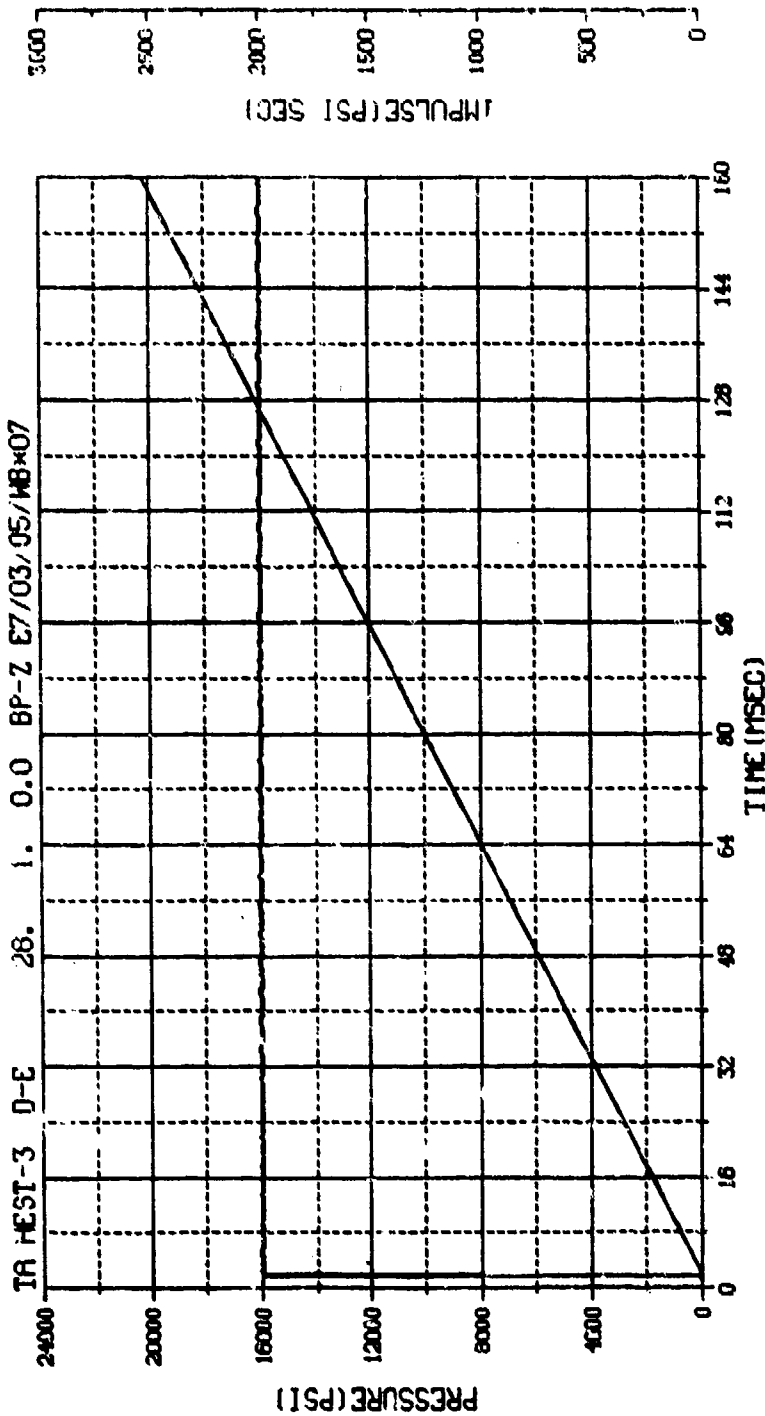
M.N. - 7 E.U. -0.000,6583.000 VSN-
 TSKIP-12.640 DIGITS-0.000,724.000 TAPE22
 S.R. -100.00 KHZ 8 50 AM, 2 MAY 78. FILE-26



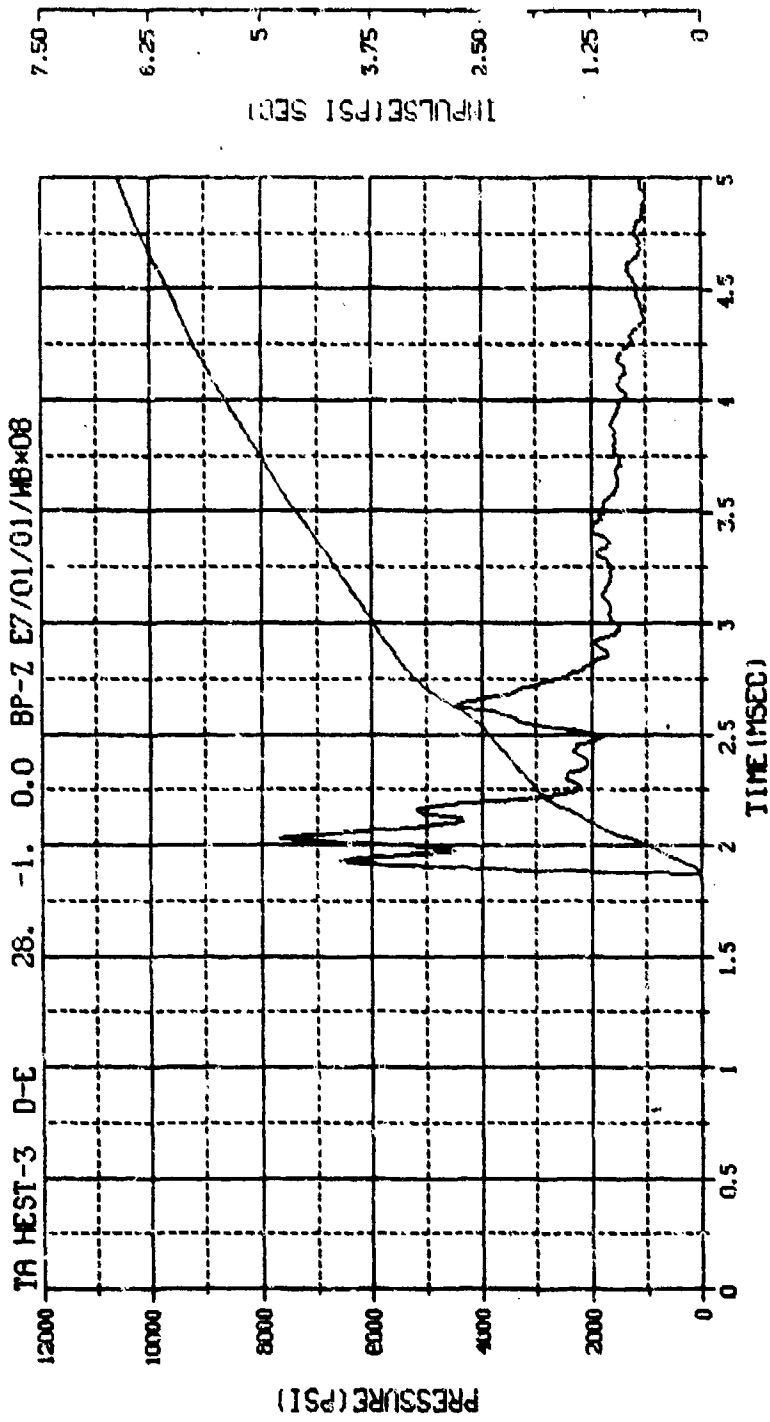
M.N. - 7
 TSKIP-12.640
 S.R. -100.00 KHZ

E.U. -0.000,6583.000
 DIGITS-0.000,724.000
 3 50 AM, 2 MAY 78.

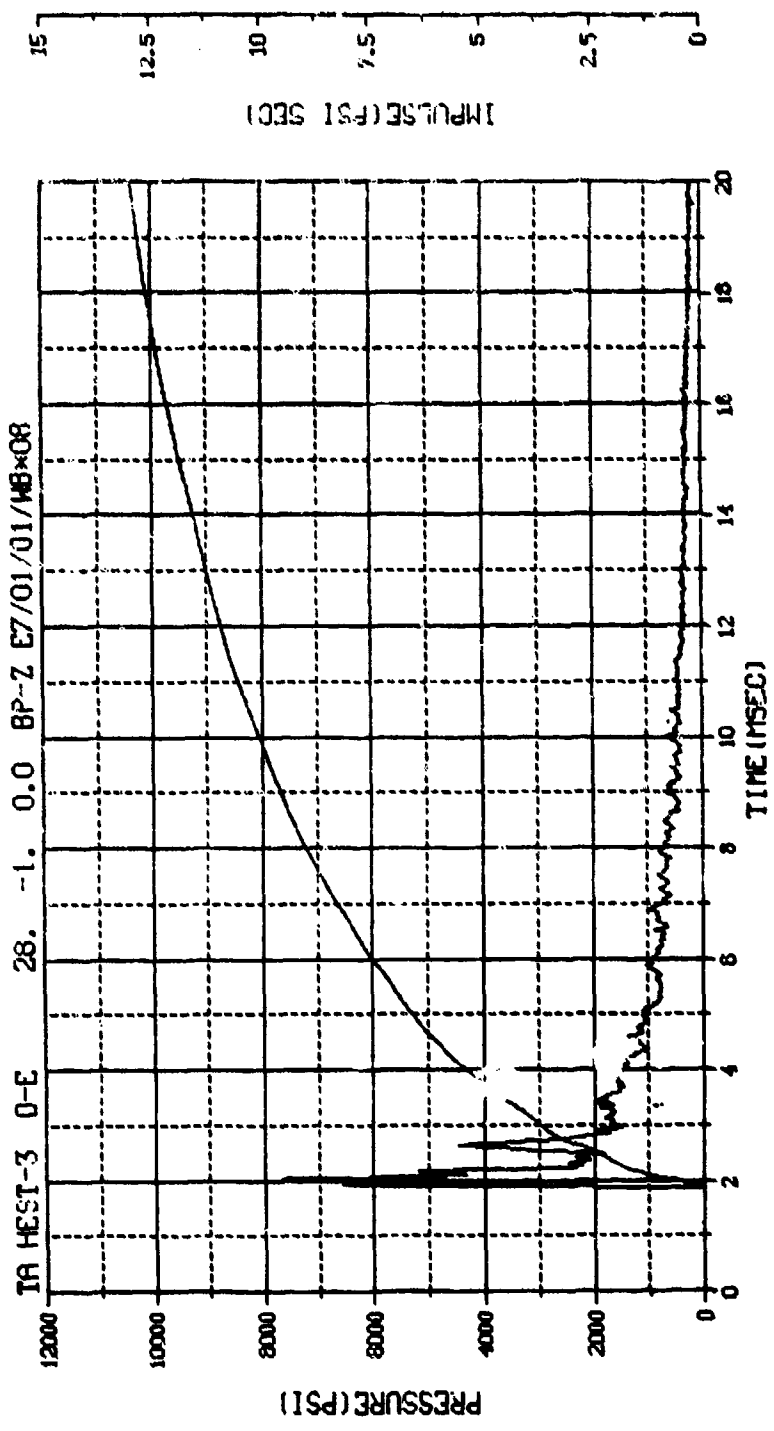
VSN-
 TAPE22
 FILE-26



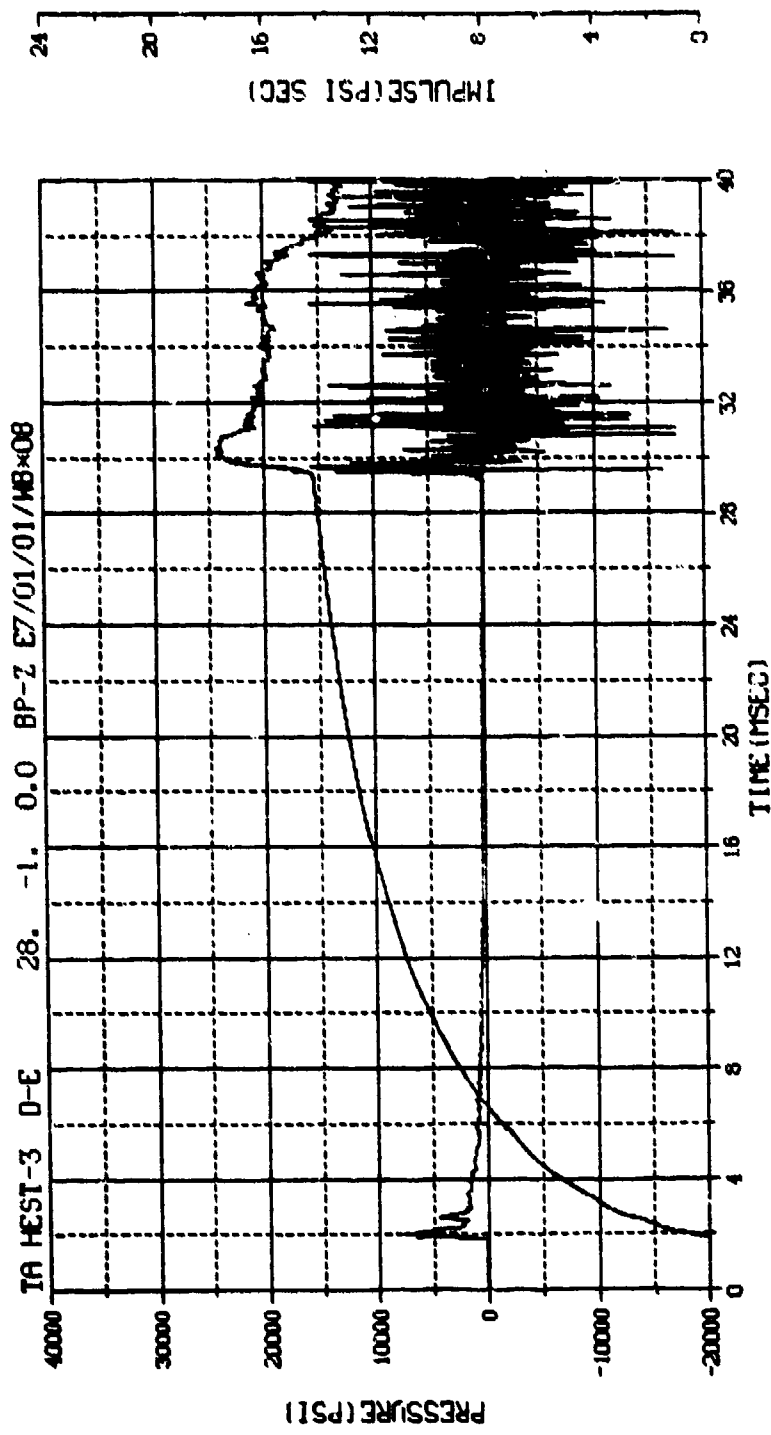
M.N. = 7	E.U. -0.000,6593.000	VSN-
TSKIP-12.640	DIGITS-0.000,724.000	TAPE22
S.R. -100.00 KHZ	8 50 AM, 2 MAY 78.	FILE-26



M.N. - 8	E.U. -0.000,6514.000	VSN-
TSKIP-12.640	DIGITS-0.000,764.000	TAPE22
S.R. -100.00 KHZ	8 50 AM, 2 MAY 78.	FILE-2

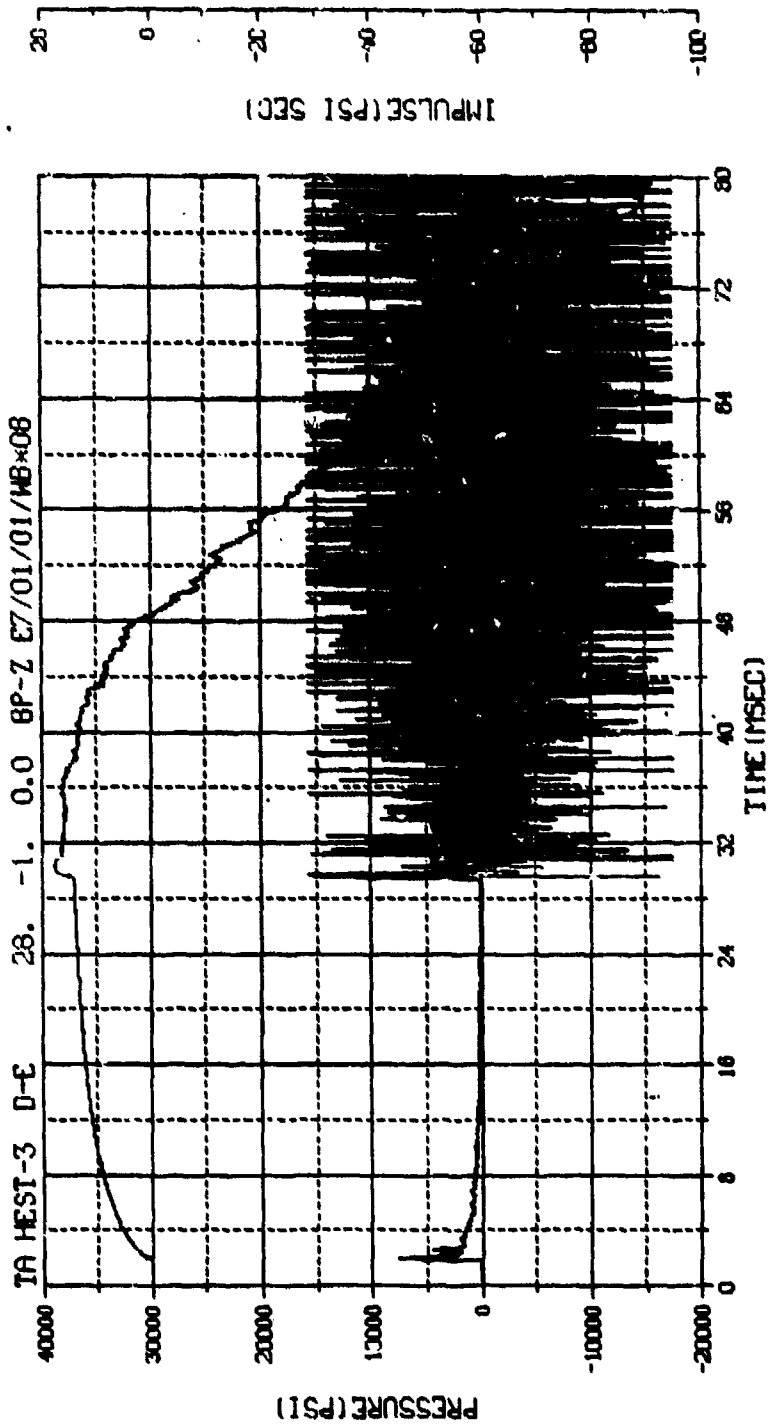


M.N. = 8 E.U. -0.000,6514.000 VSN-
 TSKIP-12.640 DIGITS-0.000,764.000 TAPE22
 S.R. -100.00 KHZ 8 50 AM, 2 MAY 78. FILE-2



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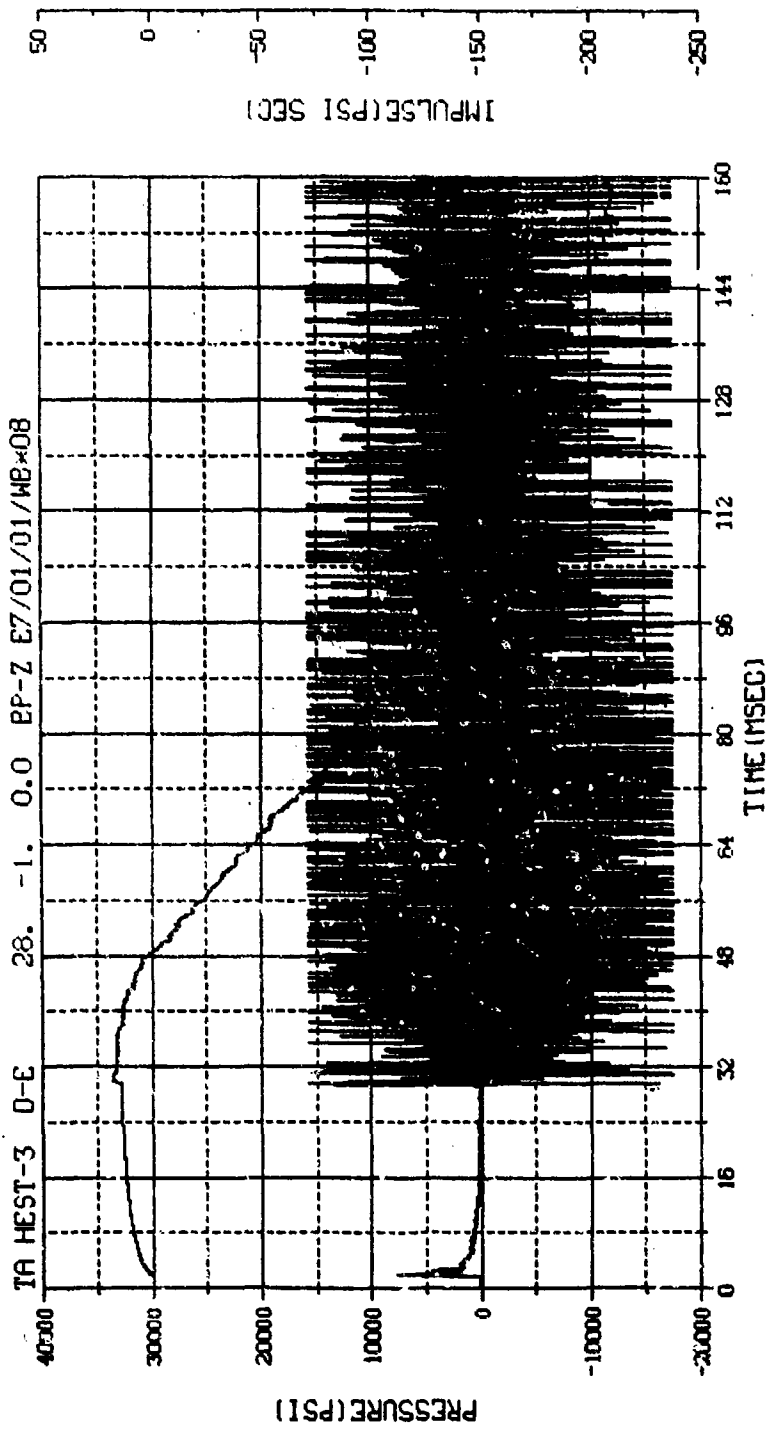
M.N. - 8	E.U. -0.000,6514.000	VSN-
TSKIP-12.640	DIGITS-0.000,764.000	TAPE22
S.R. -100.00 KHZ	8 50 AM, 2 MAY 78.	FILE-2



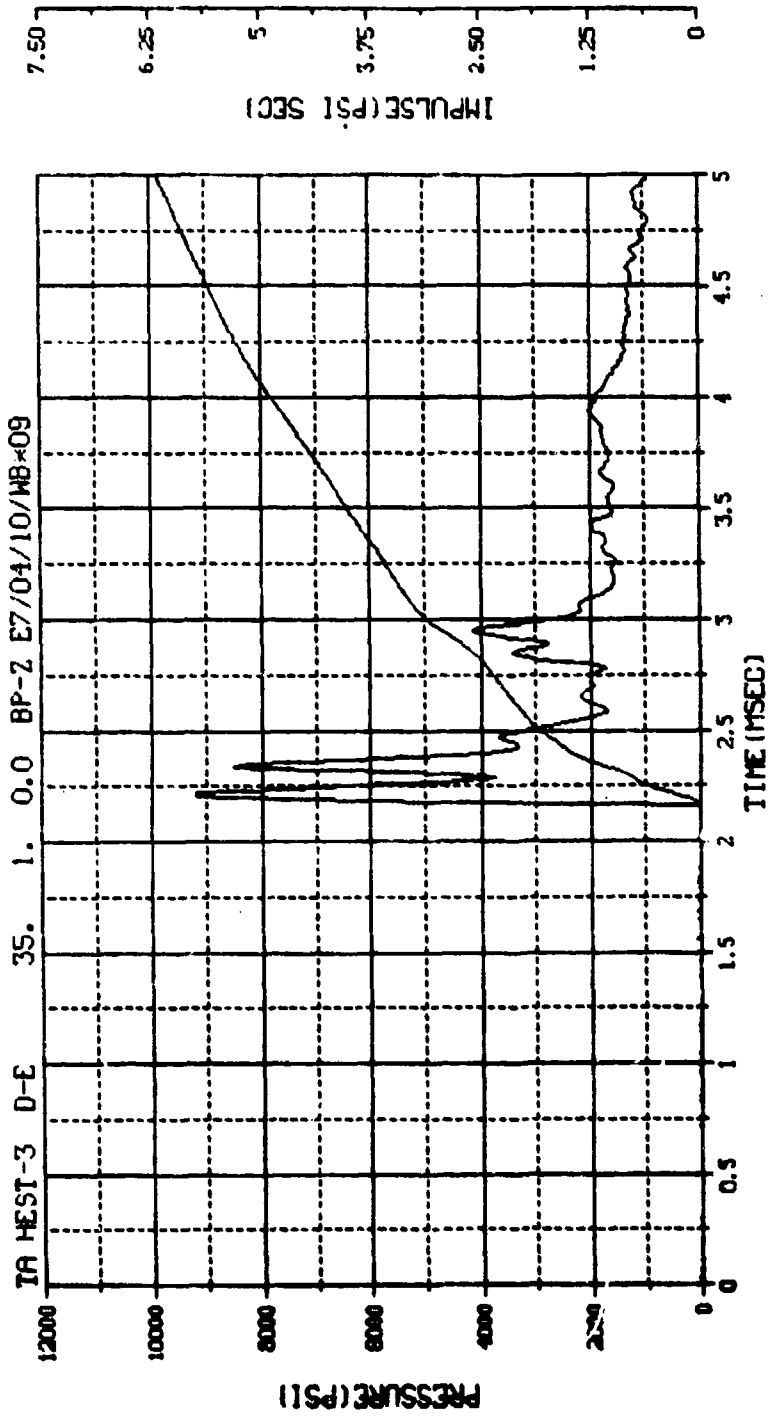
M.N. - 8
 TSKIP-12.640
 S.R. -100.00 KHZ

E.U. -0.000,6514.000
 DIGITS-0.000,764.000
 8 50 AM, 2 MAY 78.

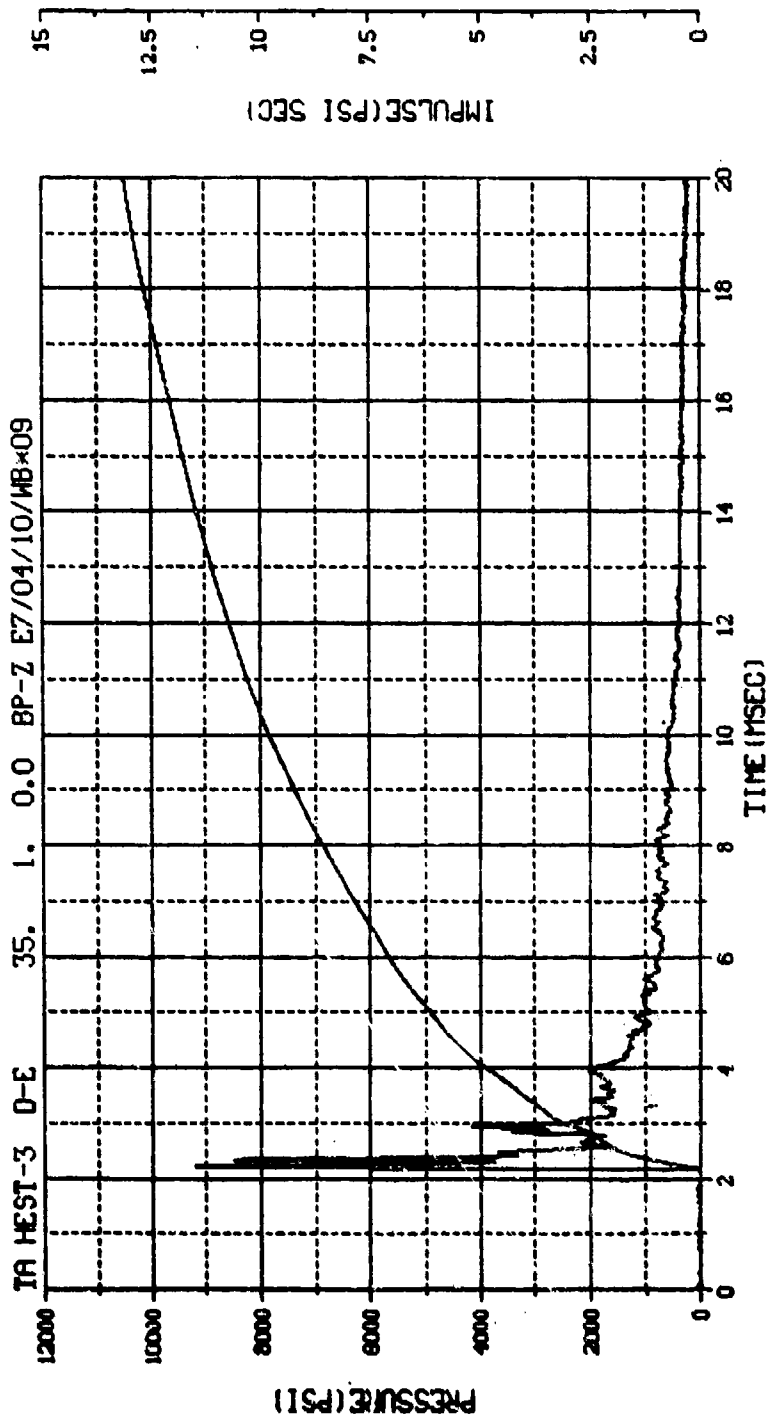
VSN-
 TAPE22
 FILE-2



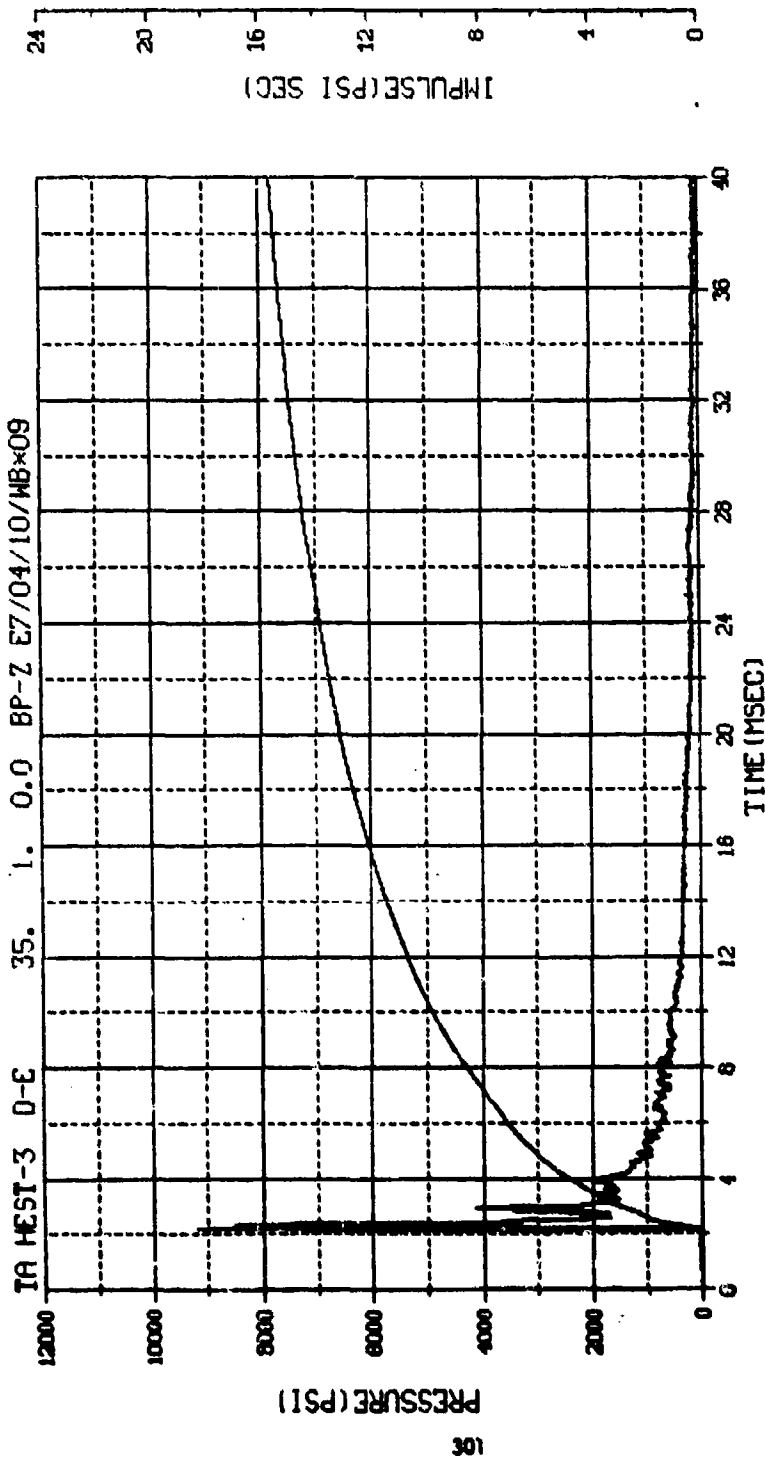
M.N. = 8	E.U. = -0.000,6514.000	VSN =
TSKIP = 12.640	DIGITS = 0.000,764.000	TAPE 22
S.R. = 100.00 KHZ	8 50 AM, 2 MAY 78.	FILE = 2
		1



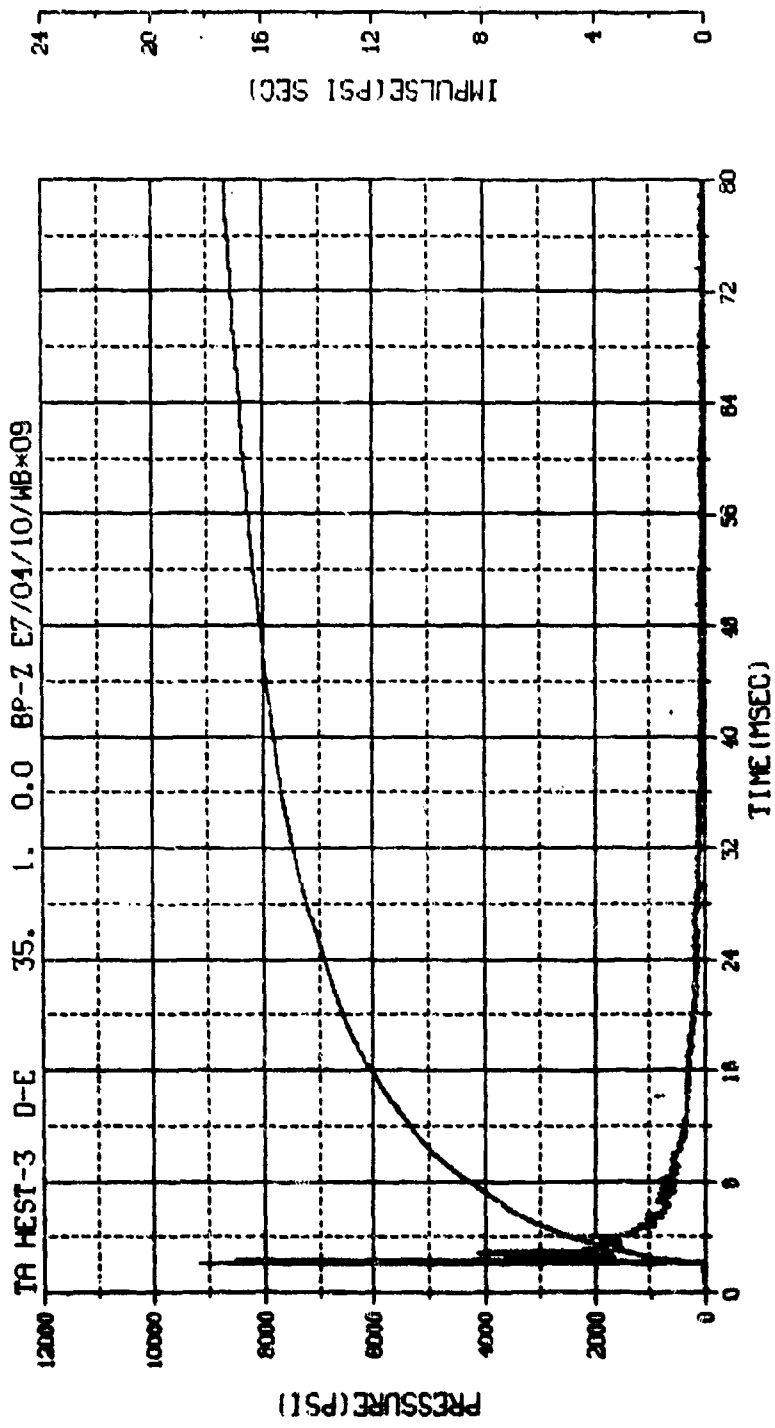
M.N. - 9 E.U. -0.000,6454.000 VSN- ED23
 TSKIP-12.650 DIGITS-0.000,831.500 TAPE22
 S.R. -100.00 KHZ 11 36 AM, 2 MAY 78. FILE-44 1



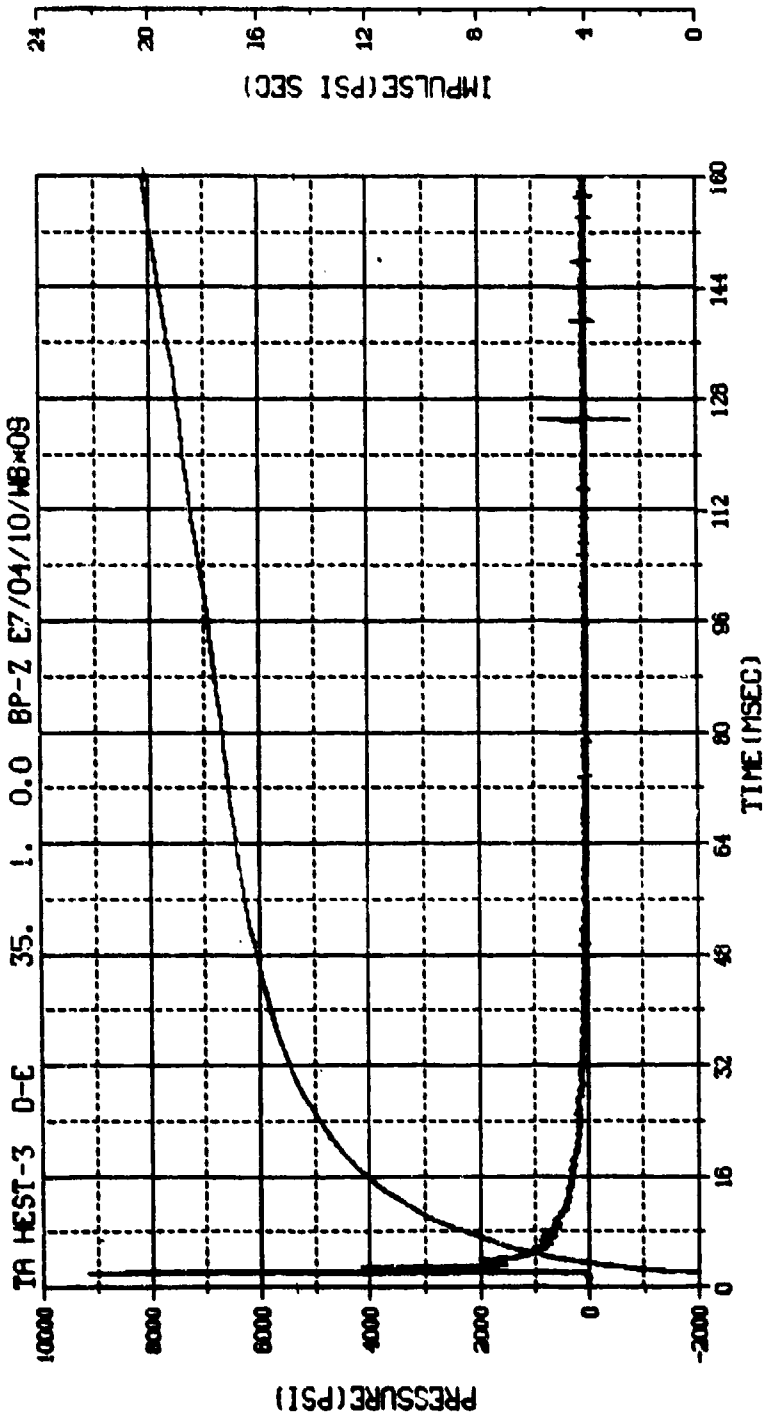
M.N. - 9 E.U. -0.000,6454.000 VSN- ED23
 TSKIP-12.650 DIGITS-0.000,831.500 TAPE22
 S.R. -100.00 KHZ 11 36 AM, 2 MAY 78. FILE-44



M.N. - 9	E.U. -0.000,6454.000	VSN-
TSKIP-12.650	DIGITS-0.000,831.500	TAPE22
S.R. -100.00 KHZ	8 50 AM, 2 MAY 78.	FILE-44

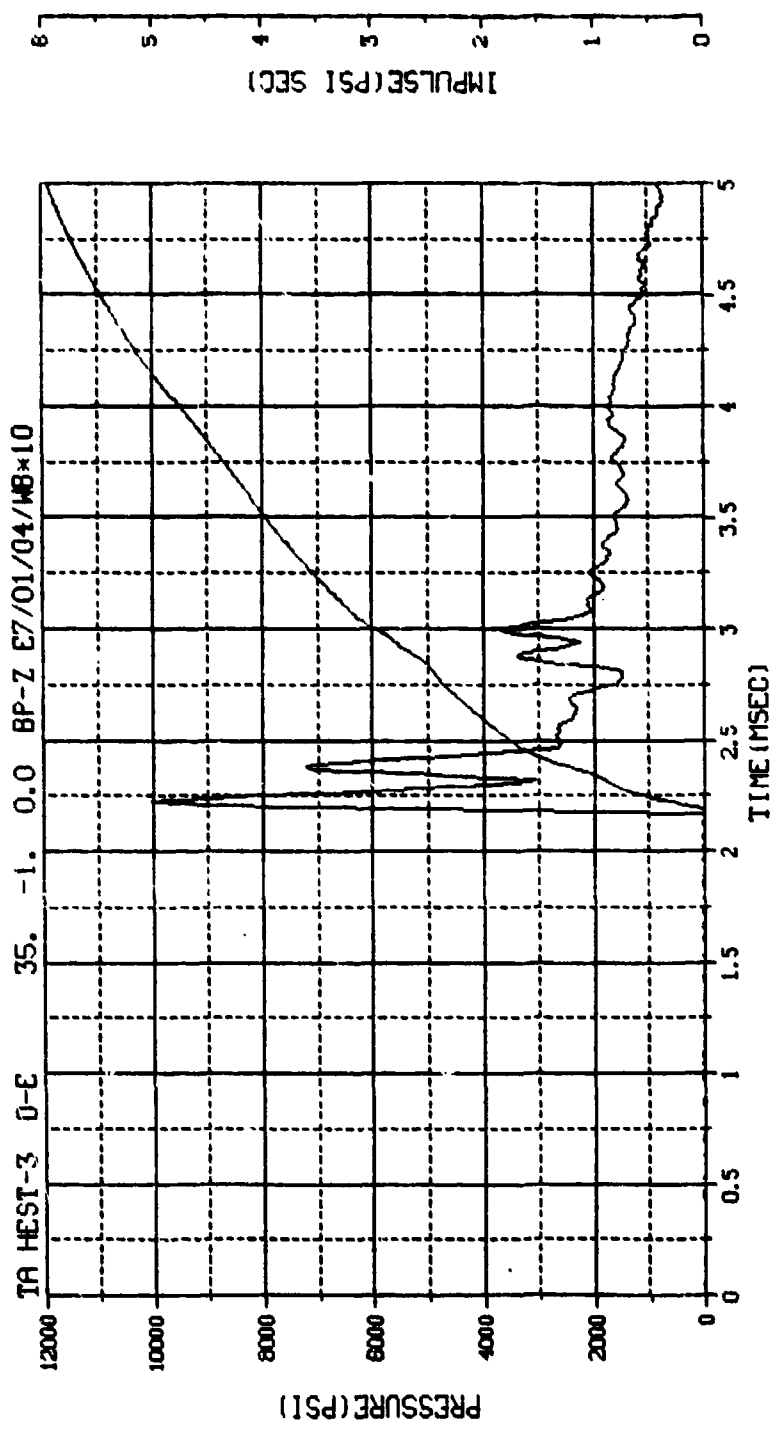


M.N. - 9 E.U. -0.000,6454.000 VSN-
 TSKIP-12.650 DIGITS-0.000,831.500 TAPE22
 S.R. -100.00 KHZ 8 50 AM, 2 MAY 78. FILE-44



303

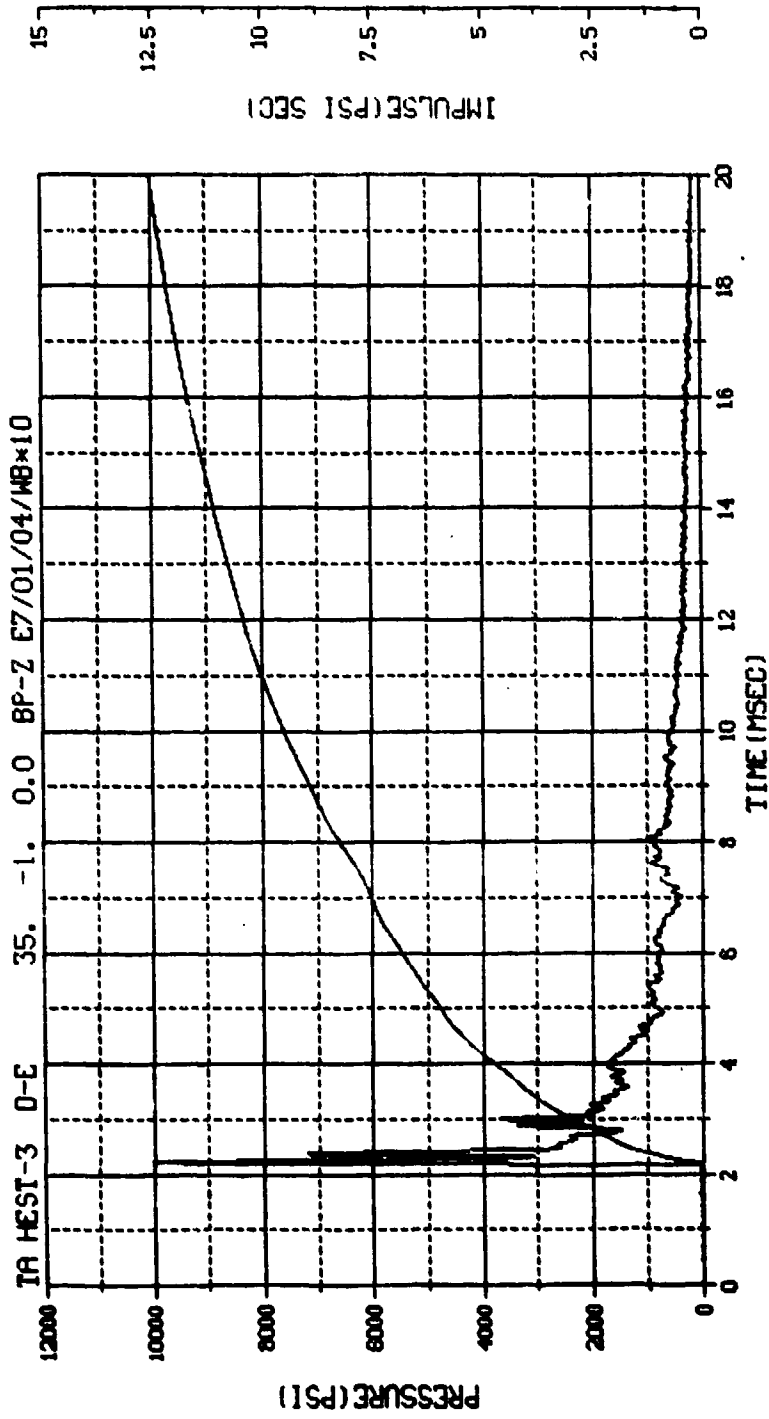
M.N. - 9	E.U. -0.000,6454.000	VSN-
TSKIP-12.650	DIGITS-0.000,831.500	TAPE22
S.R. -100.00 KHZ	8 50 AM, 2 MAY 78.	FILE-44



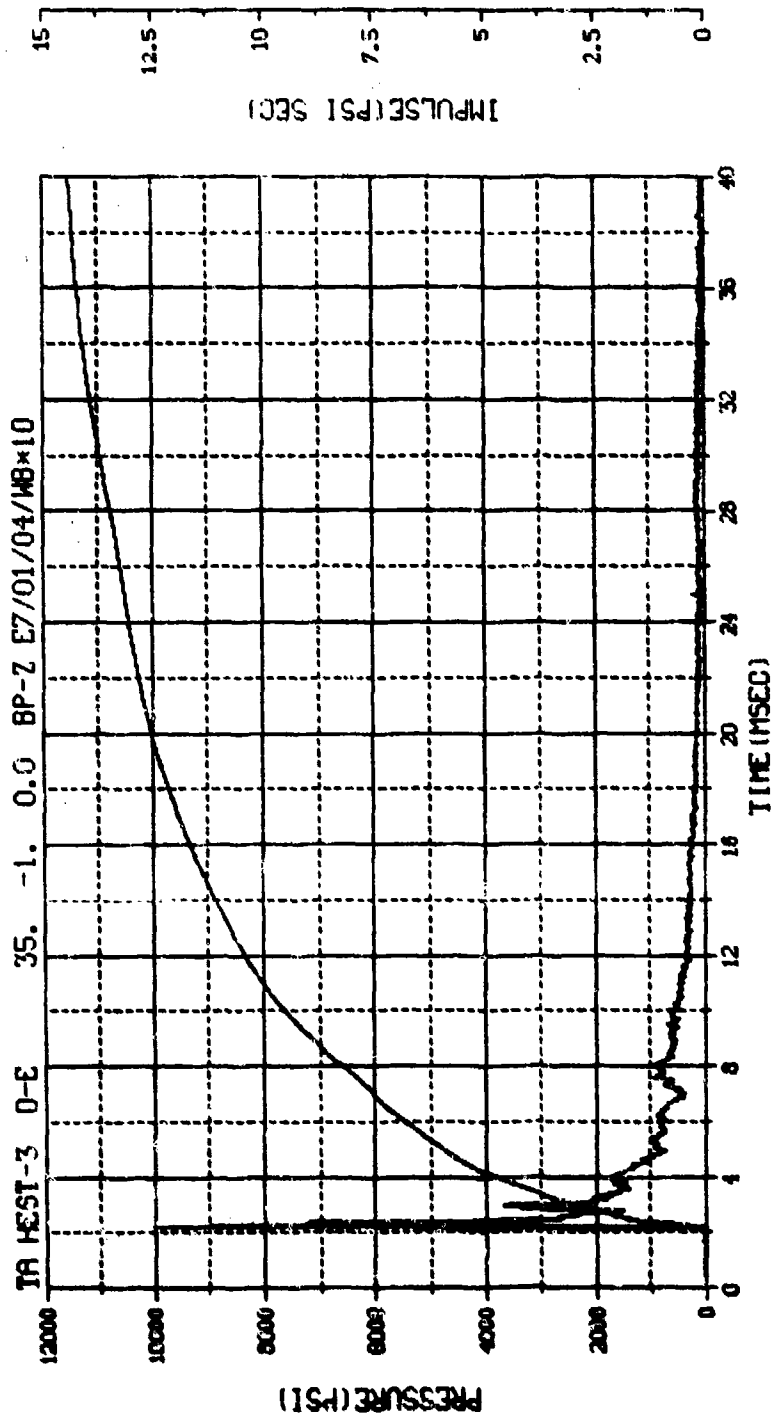
M.N. - 10
 TSKIP=12.640
 S.R. -100.00 KHZ

E.U. -0.000,6272.000
 DIGITS=0.000,834.000
 8 50 AM, 2 MAY 78.

VSN=
 TAPE22
 FILE-8



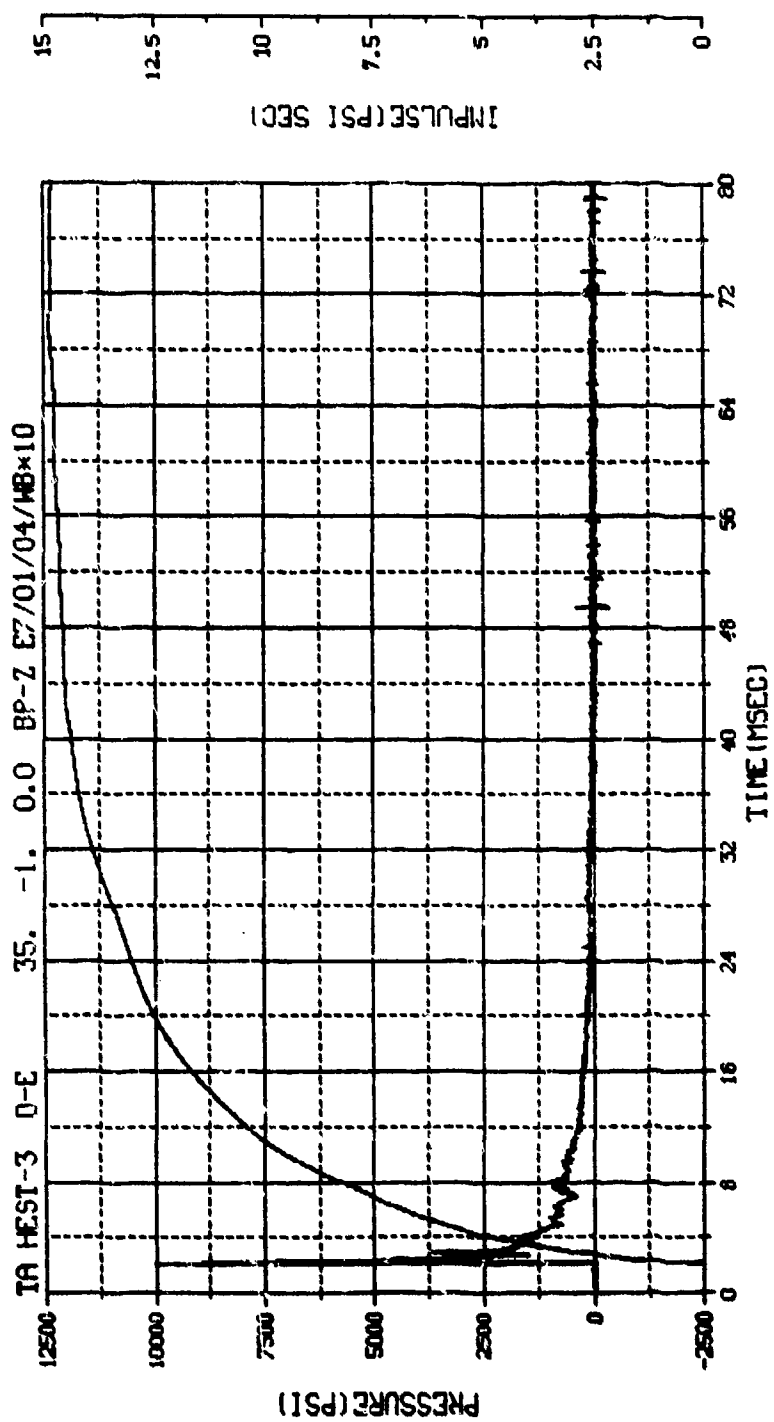
M.N. - 10 VSN-
 TSK:IP-12.640 E.U. -0.000,6272.000 TAPE22
 S.R. -100.00 KHZ DIGITS-0.000,834.000 FILE-8
 8 50 AM, 2 MAY 78. 1



M.N. - 10
 TSKIP-12.640
 S.R. -100.00 KHZ

E.U. -0.000,6272.000
 DIGITS-0.000,934.000
 8 50 AM, 2 MAY 78.

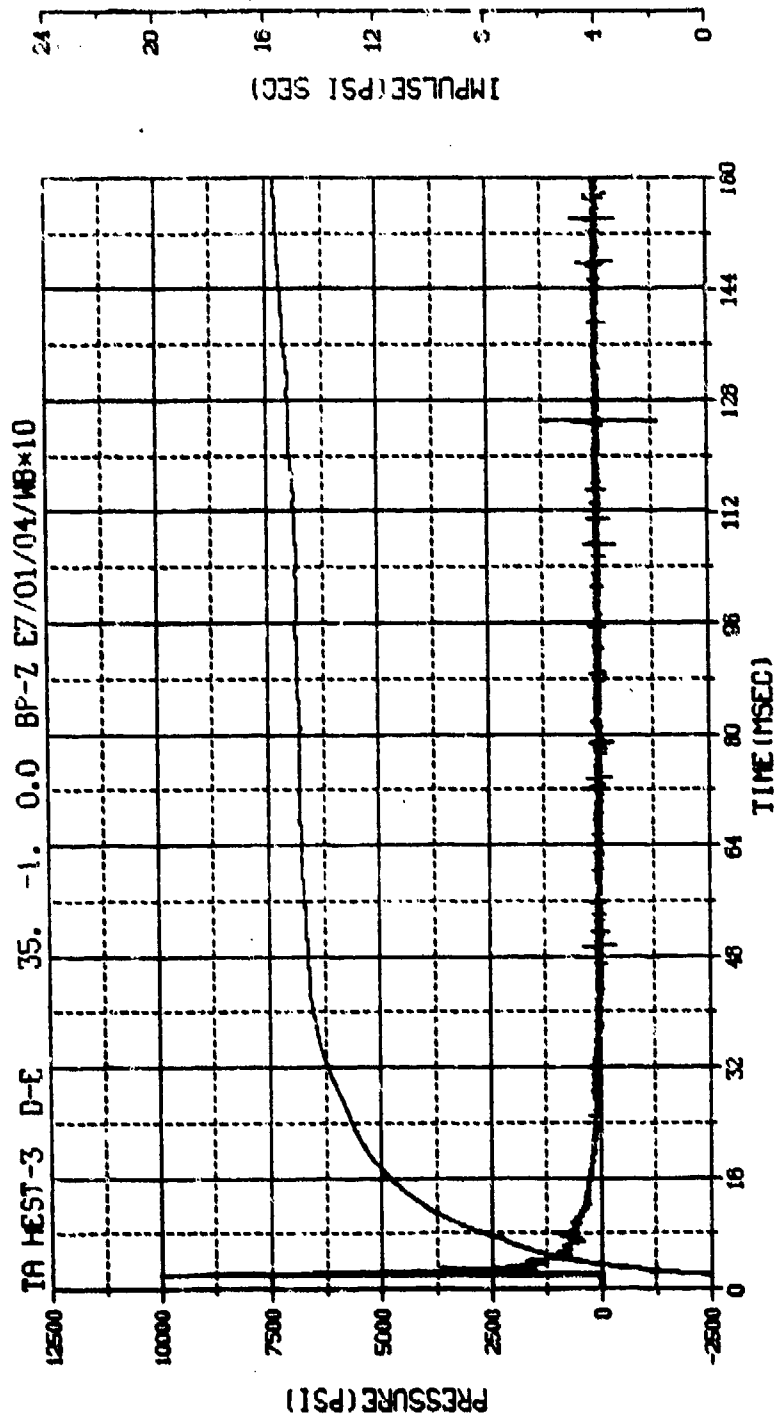
VSN-
 TAPE22
 FILE-8



M.N. - 10
 TSKIP-12.640
 S.R. -100.00 KHZ

E.U. -0.000,6272.000
 DIGITS-0.000,834.000
 8 50 AM, 2 MAY 78.

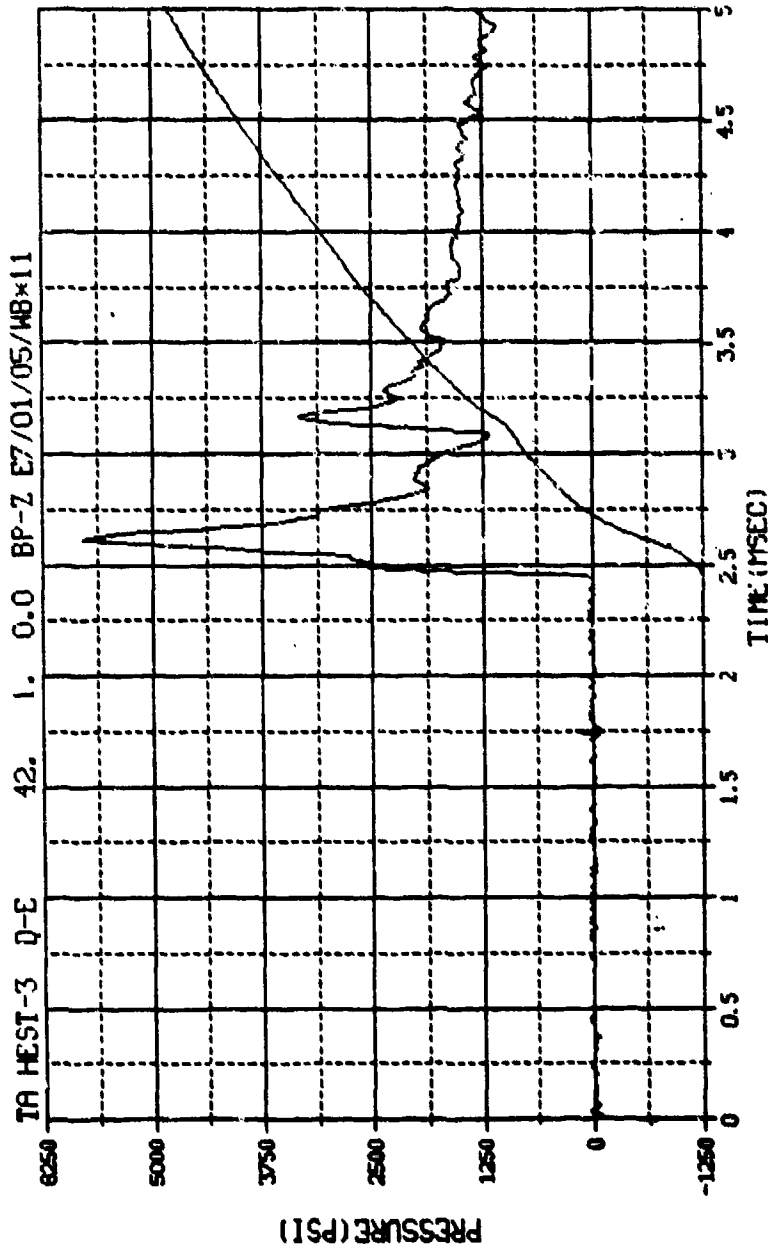
VSN-
 TAPE22
 FILE-8



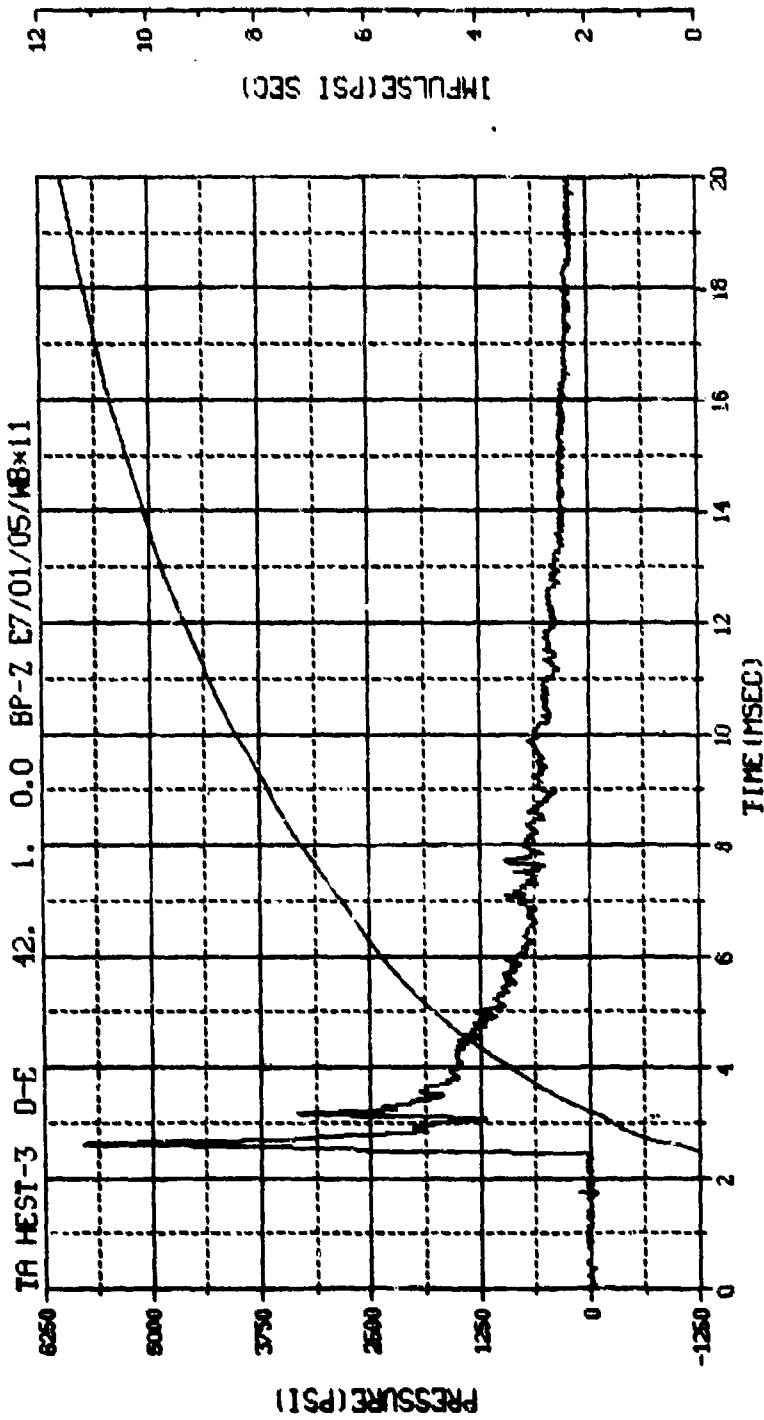
M.N. - 10
 TSKIP-12.640
 S.R. -100.00 KHZ

E.U. -0.000,6272.000
 DIGITS-0.000,834.000
 8 50 AM, 2 MAY 78.

VSN-
 TAPE22
 FILE-8

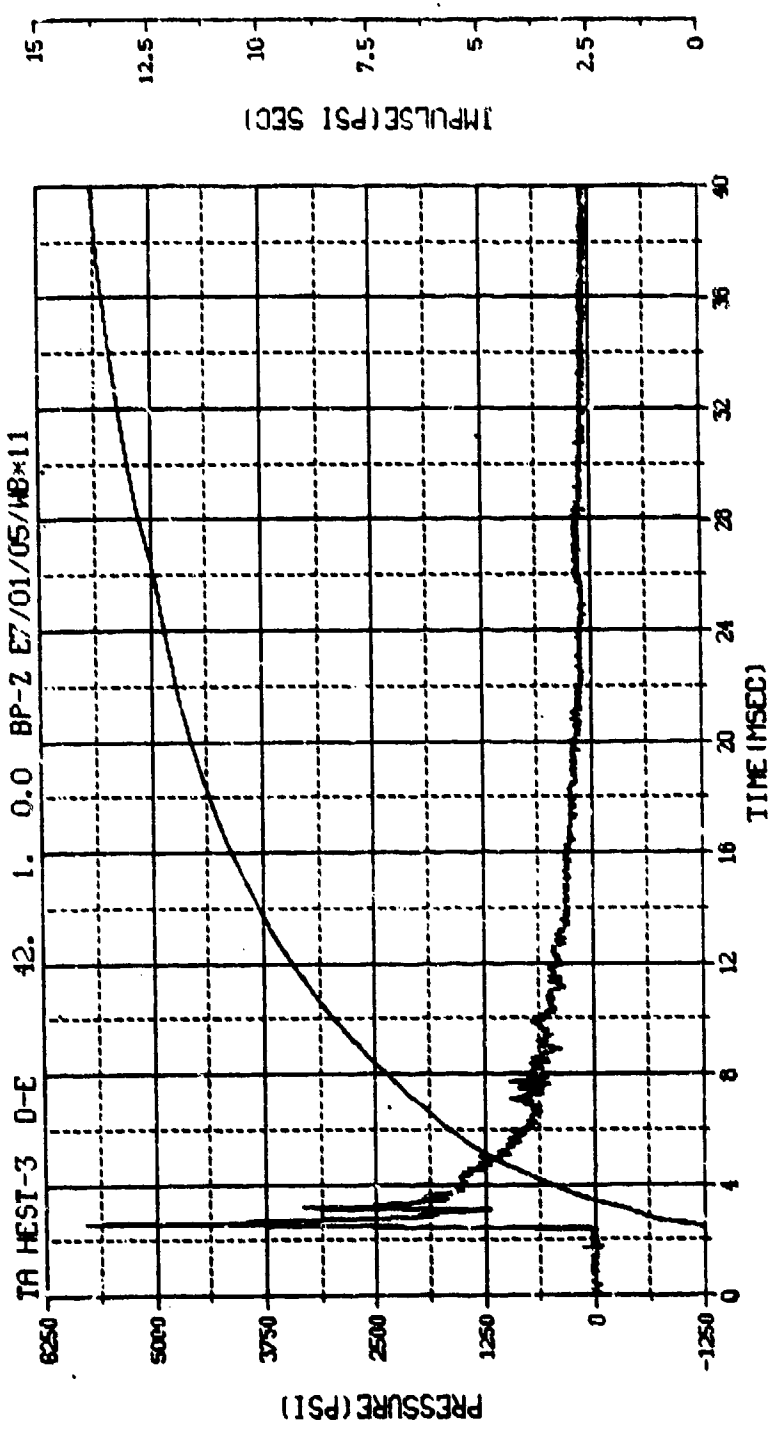


M.N. - 11	E.U. -0.000, 4222.000	VSN-
TSKIP-12.640	DIGITS-0.000, 602.500	TAPE22
S.R. -100.00 KHZ	8 50 AM, 2 MAY 78.	FILE-10

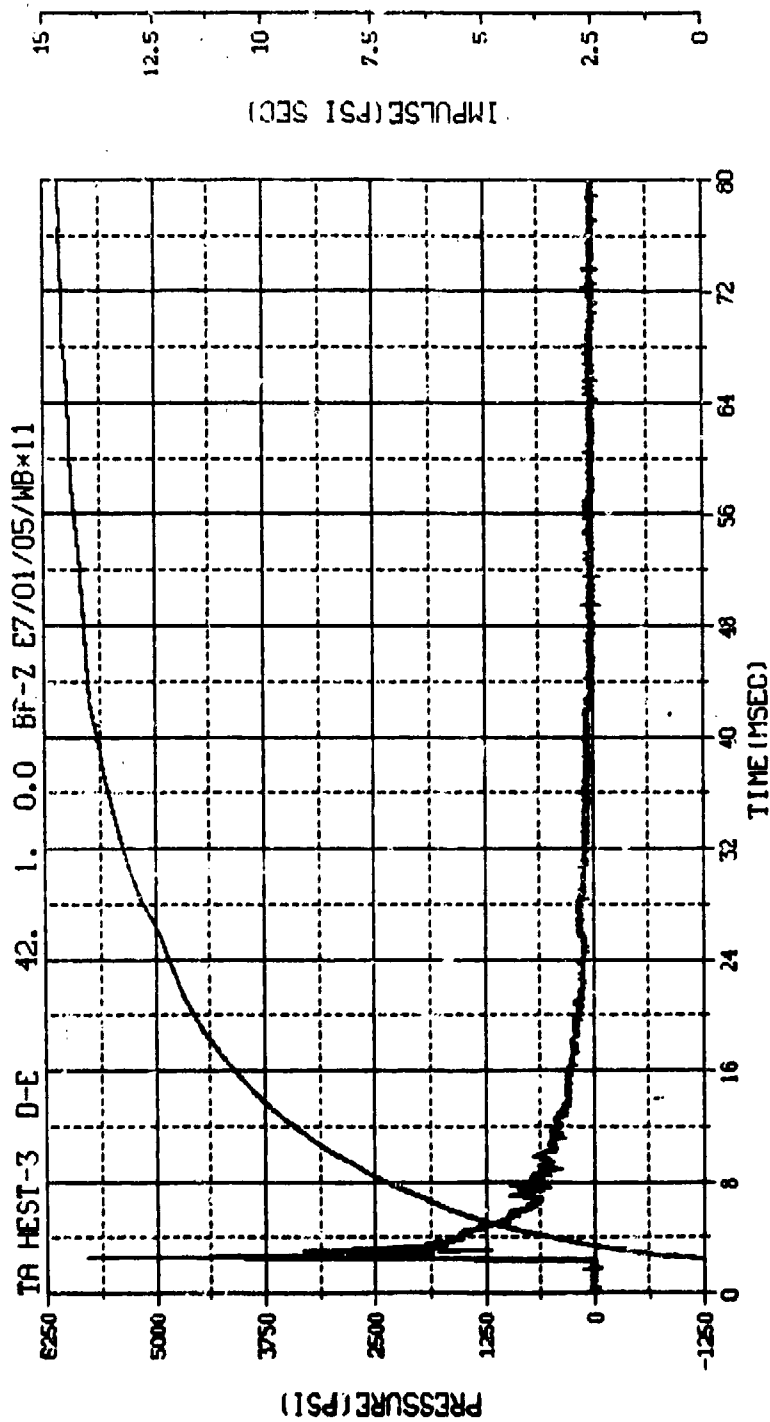


010

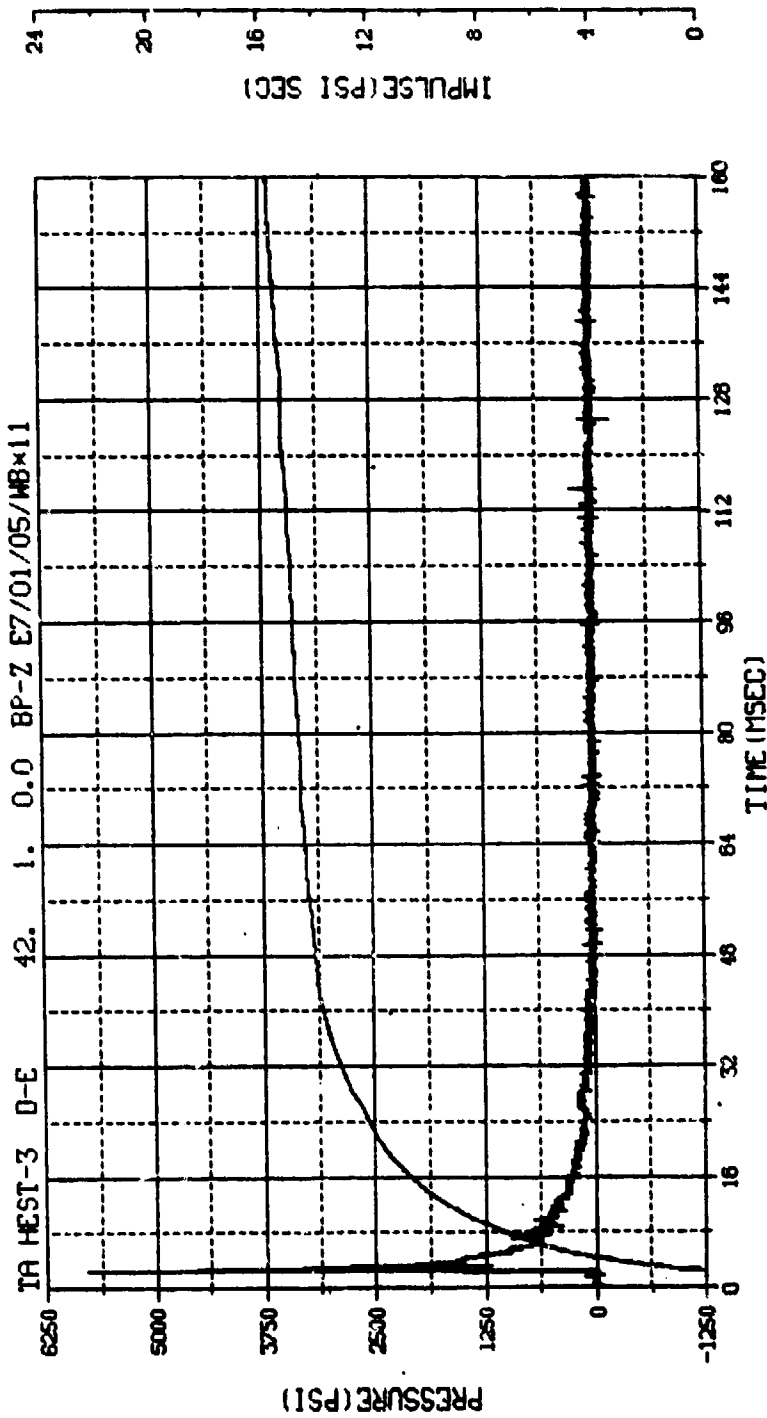
M.N. - 11 E.U. -0.000,4222.000 VSN-
 TSKIP-12.640 DIGITS-0.000,602.500 TAPE22
 S.R. -100.00 KHZ 8 50 AM, 2 MAY 78. FILE-10



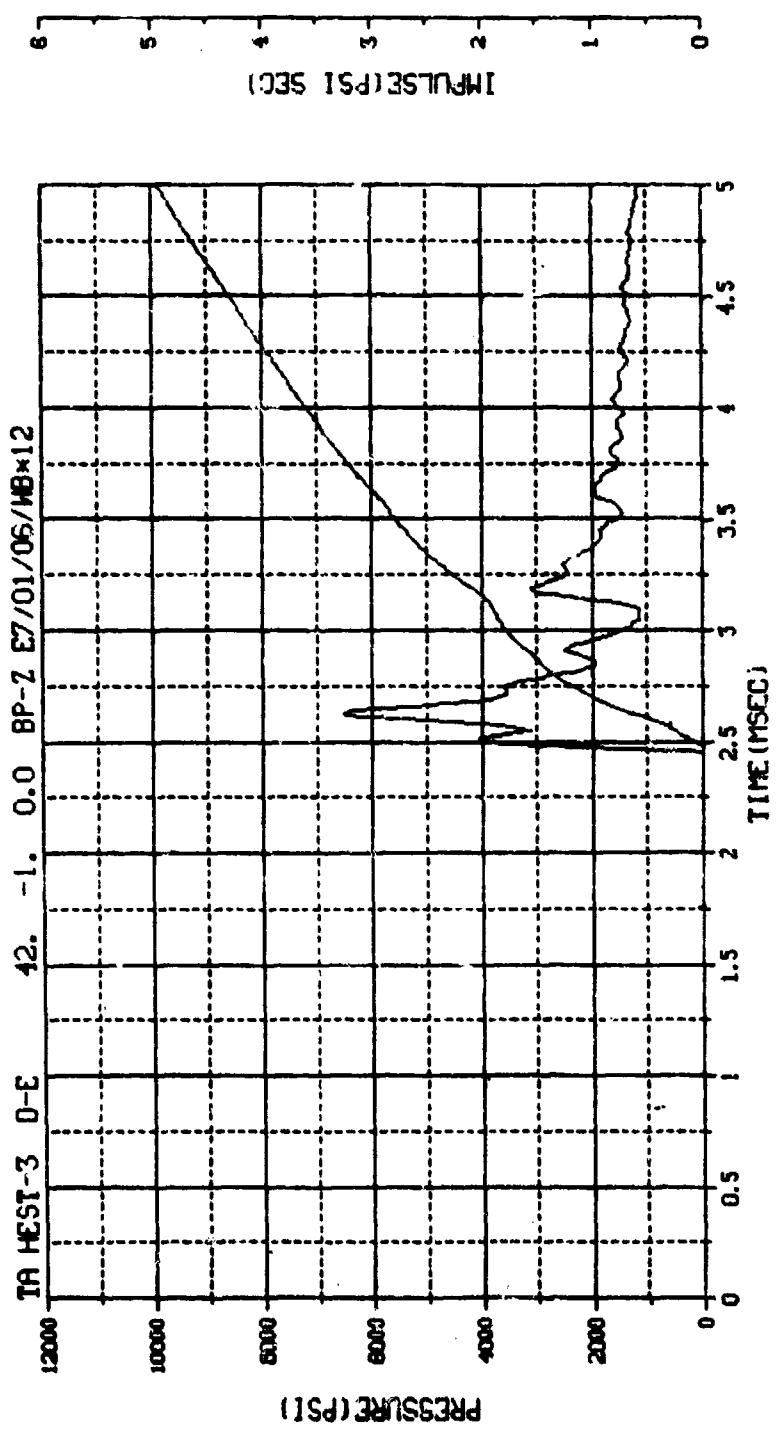
M.N. - 11	E.U. -0.00G, 4222.000	VSN-
TSKIP-12.640	DIGITS-0.000, 602.500	TAPE22
S.R. -100.00 KHZ	8 50 AM, 2 MAY 78.	FILE-10



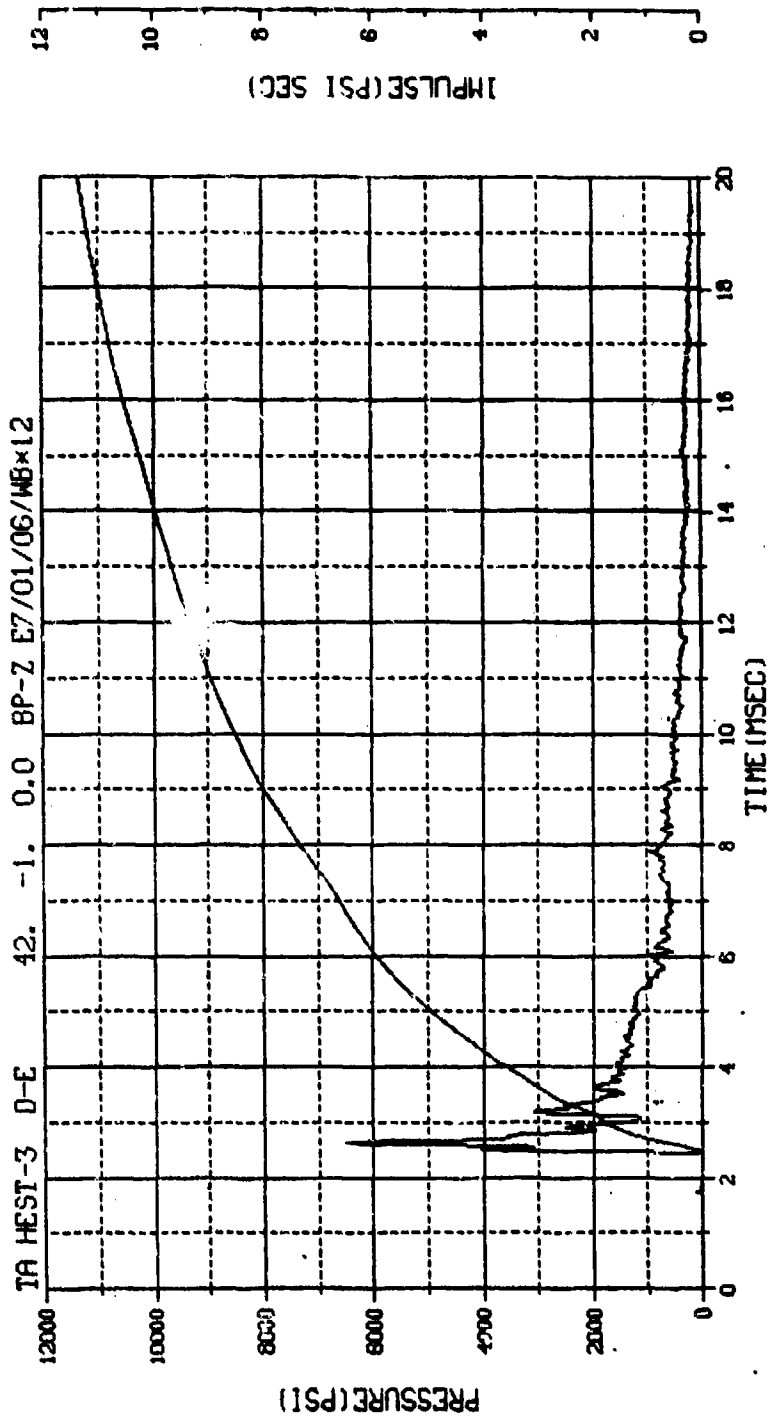
M.N. - 11	E.U. -0.000, 4222.000	VSN-
TSKIP-12.640	DIGITS-0.000, 602.500	TAPE22
S.R. -100.00 KHZ	8 50 AM, 2 MAY 78.	FILE-10



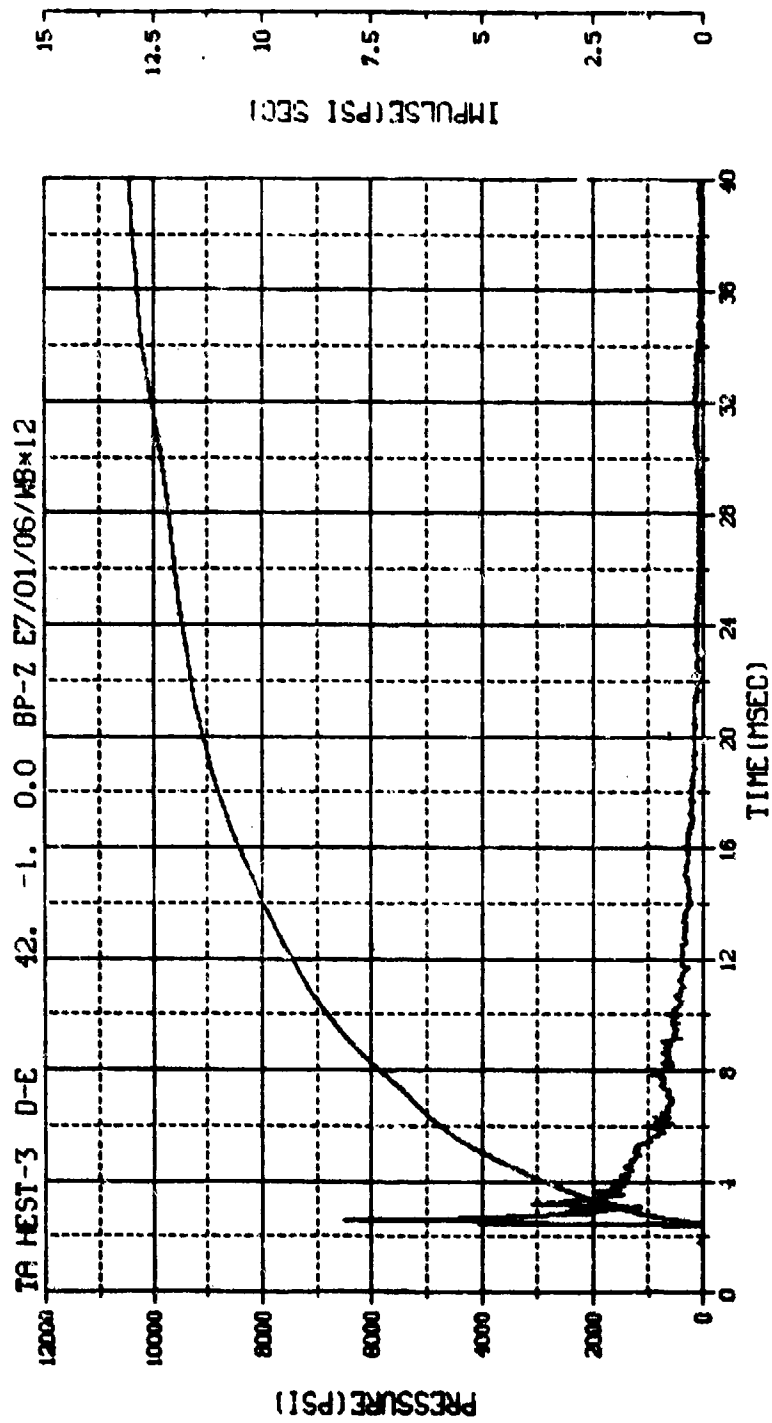
M.N. - 11	E.U. - 0.000, 4222.000	VSN-
TSKIP-12.640	DIGITS-0.000, 602.500	TAPE22
S.R. - 100.00 KHZ	8 50 AM, 2 MAY 78.	FILE-10



M.N. = 12 VSN=
 TSKIP=12.640 E.U. -0.000,6372.000 TAPE22
 S.R. =100.00 KHZ 8 50 AM, 2 MAY 78. FILE=12

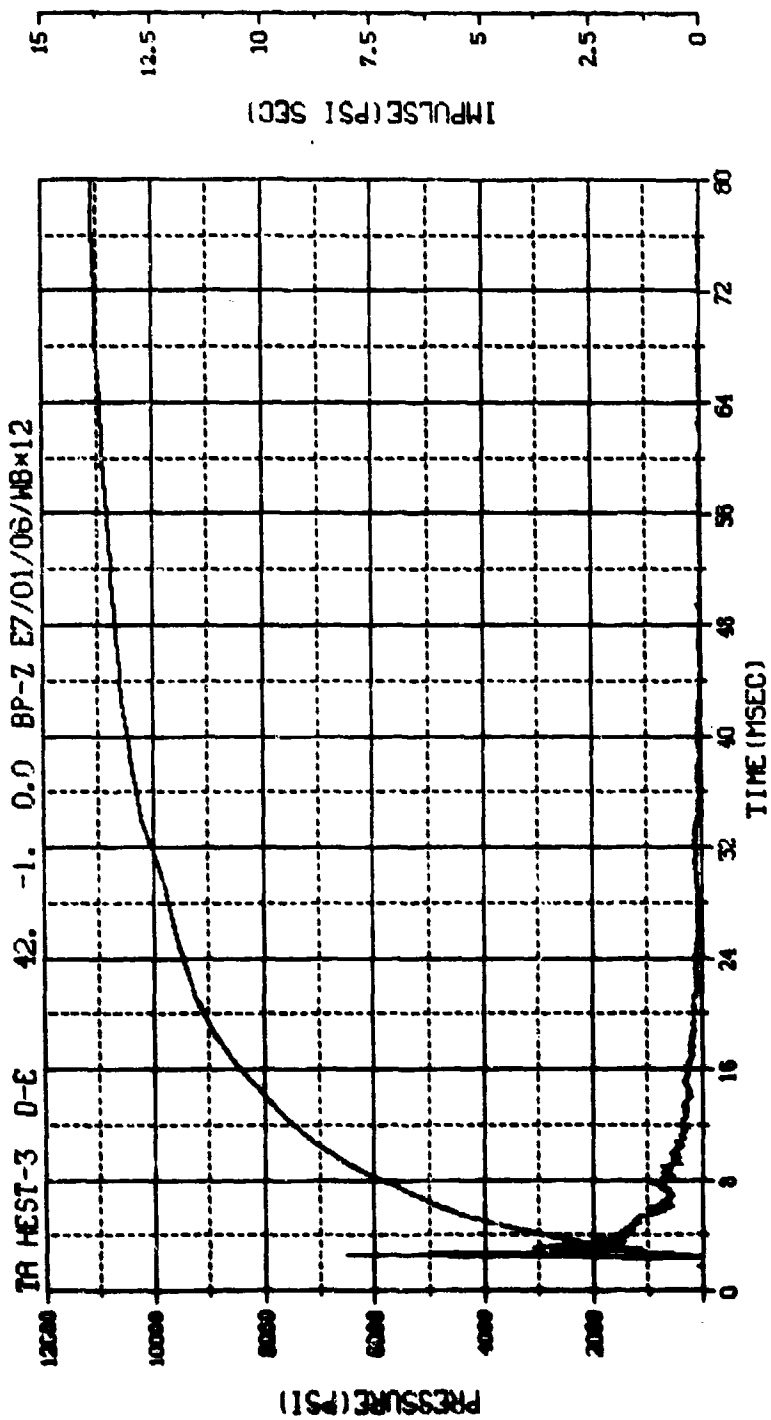


M.N. = 12 E.U. = -0.000,6372.000 VSN=
 TSKIP-12.640 DIGITS-0.000,919.125 TAPE22
 S.R. =100.00 KHZ 8 50 AM, 2 MAY 78. FILE-12

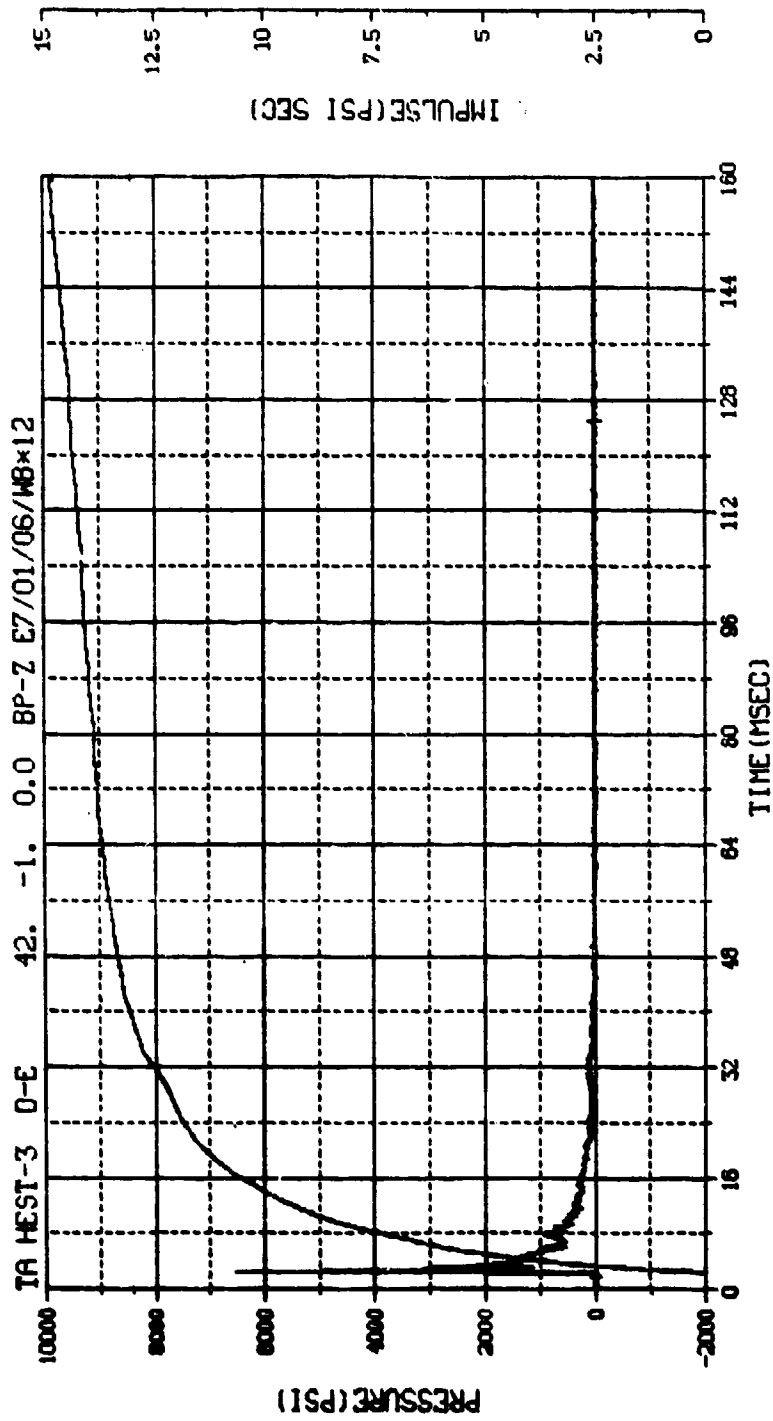


916

M.N. = 12 E.U. -0.000,6372.000 VSN=
 TSKIP=12.640 DIGITS=0.000,919.125 TAPE22
 S.R. =100.00 KHZ 8 50 AM, 2 MAY 78. FILE=12



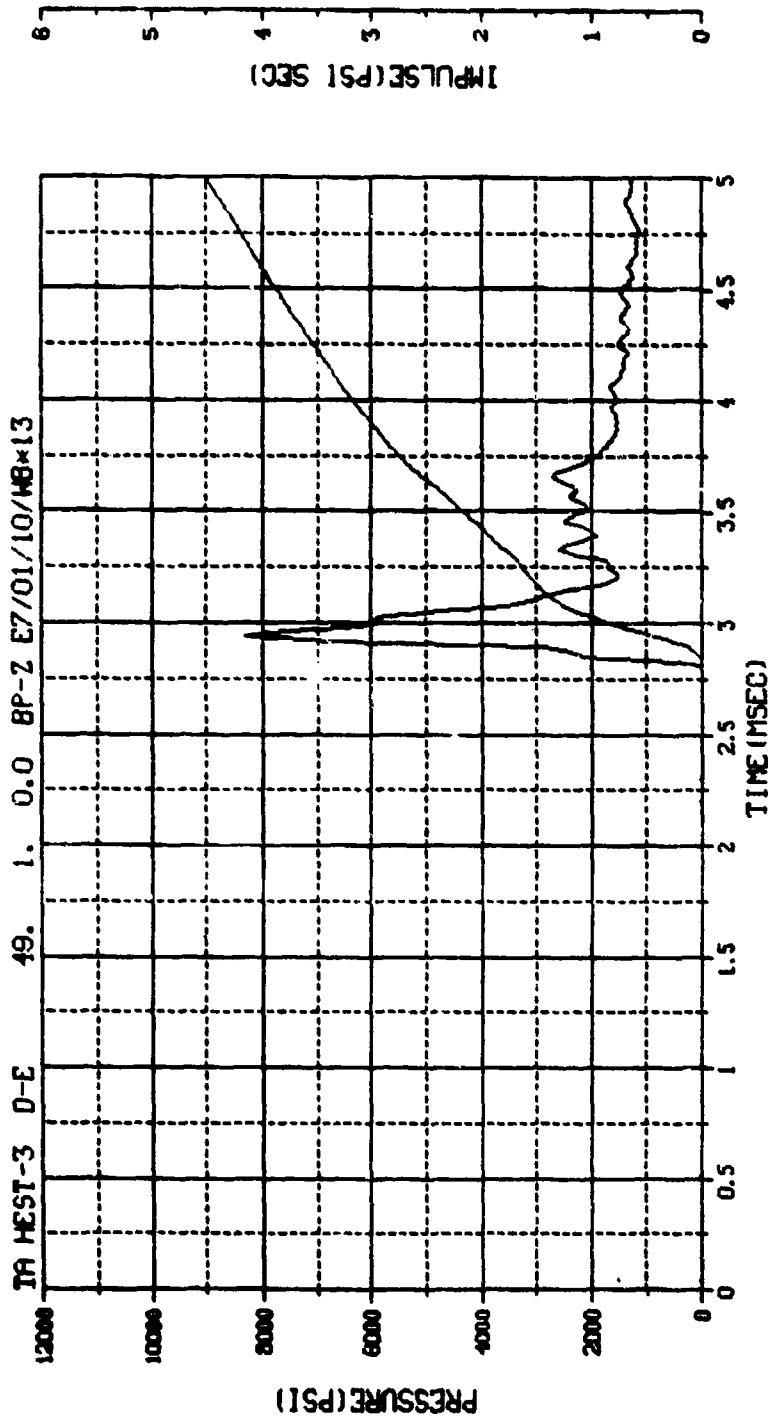
M.N. - 12	E.U. -0.000,6372.000	VSN-
TSKIP-12.640	DIGITS-0.000,919.125	TAPE22
S.R. -100.00 KHZ	8 50 AM, 2 MAY 78.	FILE-12



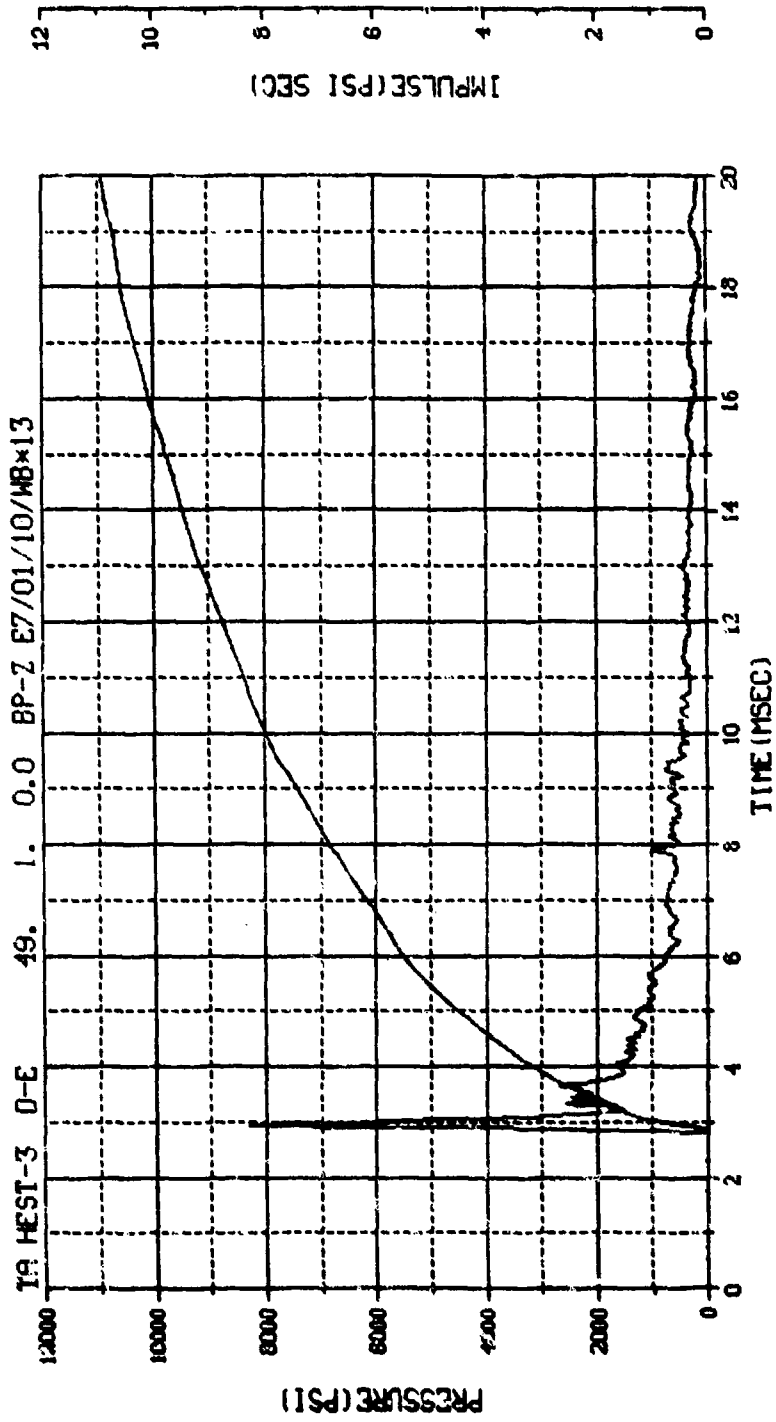
M.N. - 12
 TSKIP-12.640
 S.R. -100.00 KHZ

E.U. -0.000,6372.000
 DIGITS-0.000,919.125
 8 50 AM, 2 MAY 78.

VSN-
 TAPE22
 FILE-12



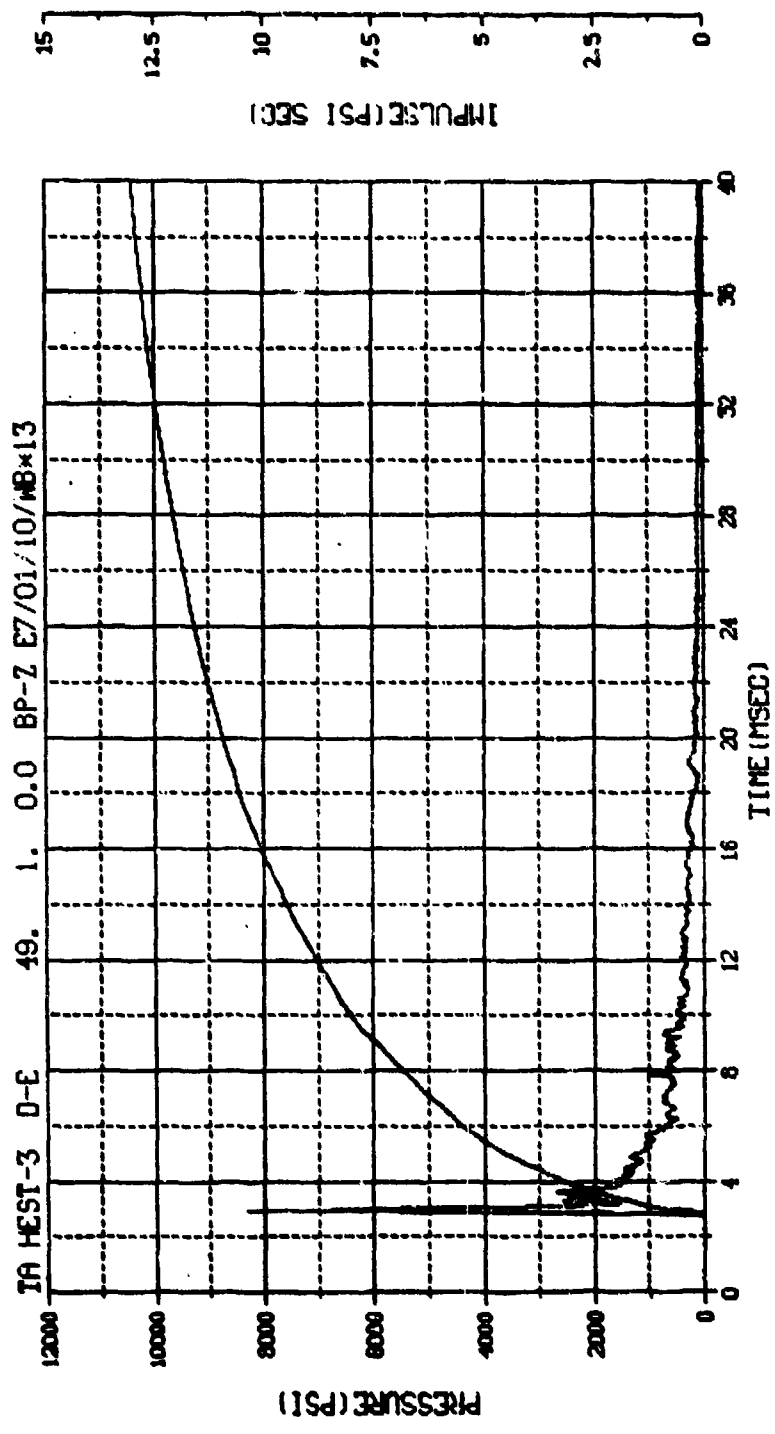
M.N. - 13 E.U. -0.000,6602.000 VSN-
 TSKIP-12.640 DIGITS-0.000,970.000 TAPE22
 S.R. -100.00 KHZ 8 50 AM, 2 MAY 78. FILE-14



M.N. = 13
 TSKIP=12.640
 S.R. =100.00 KHZ

E.U. =-0.000,6602,000
 DIGITS=0.000,970,000
 8 50 AM, 2 MAY 78.

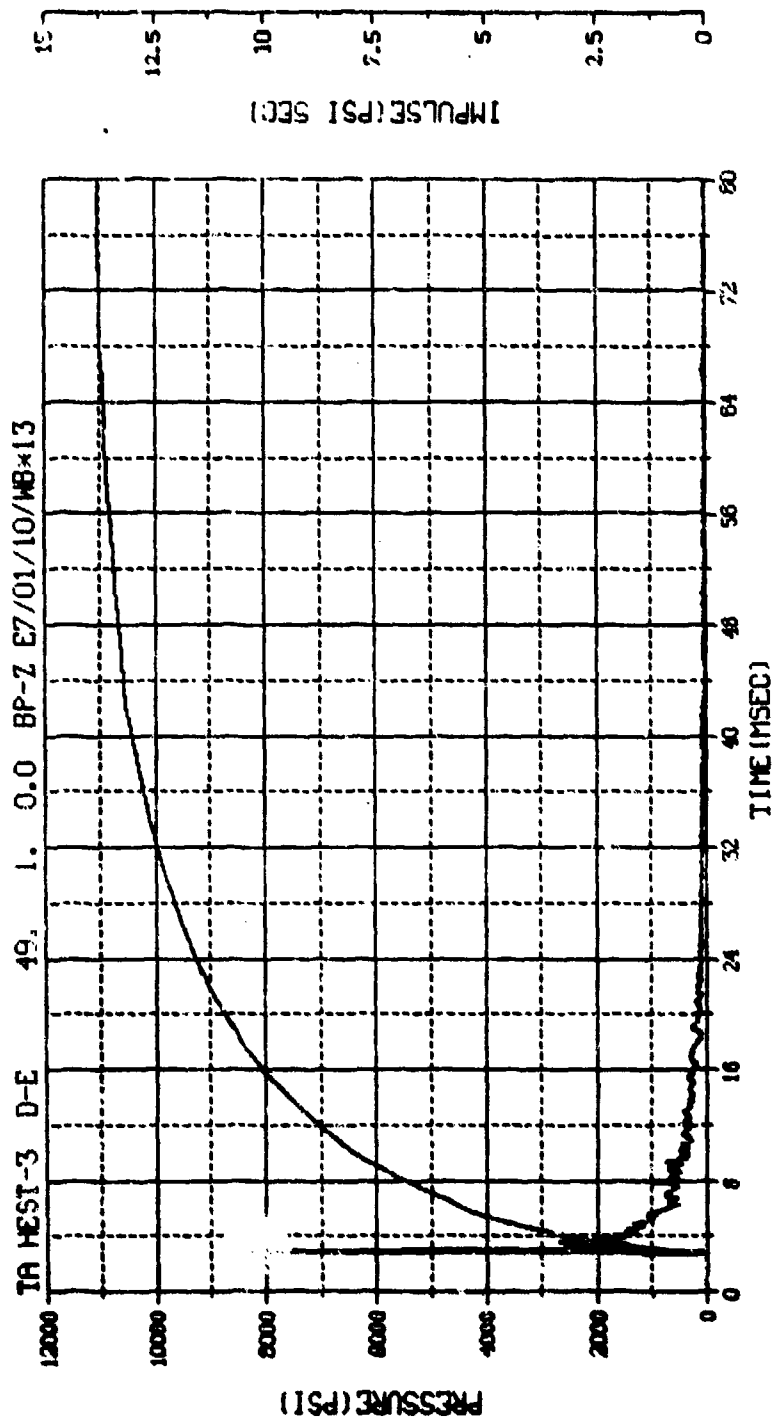
VSN=
 TAPE22
 FILE-14



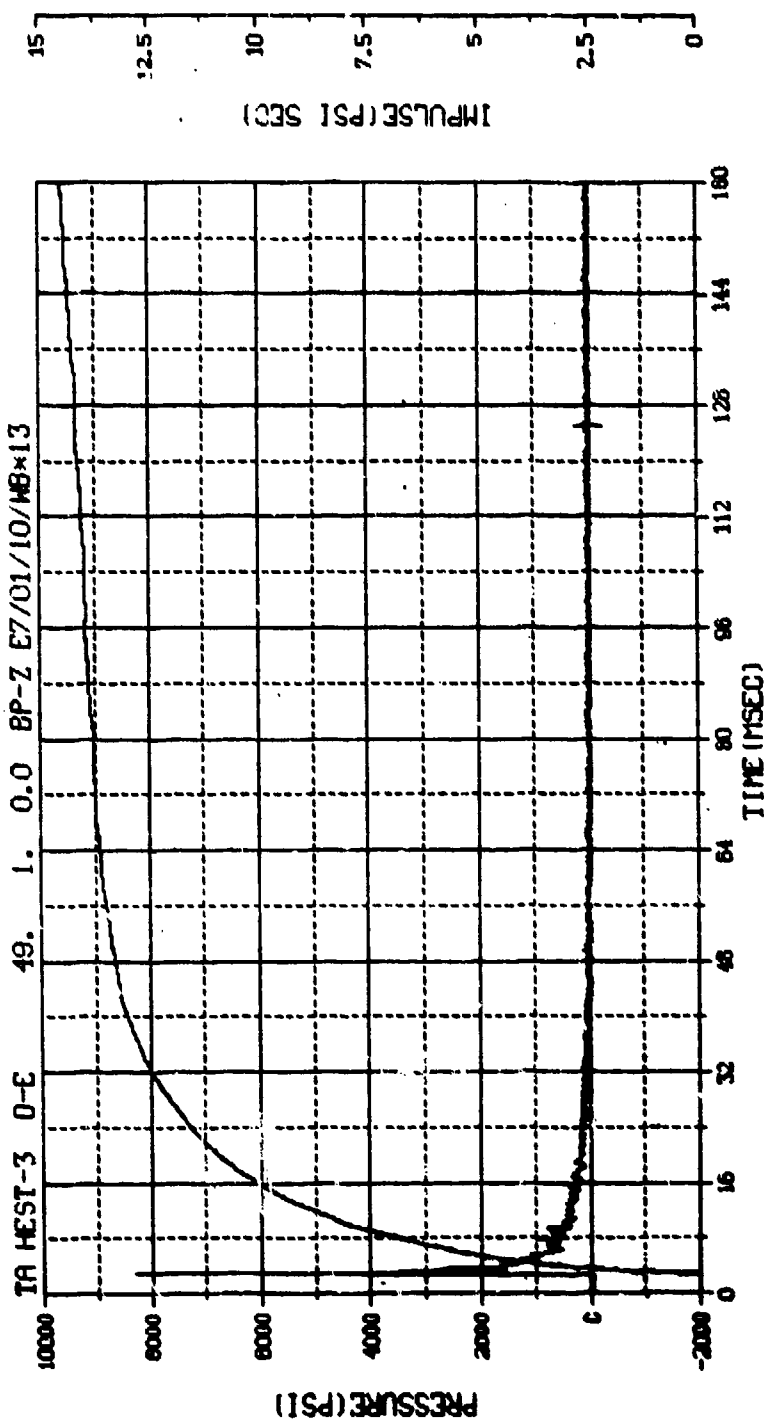
M.N. - 13
 TSKIP-12.640
 S.R. -100.00 KHZ

E.U. -0.000,6602.000
 DIGITS-0.000,970.000
 8 50 AM, 2 MAY 78.

VSN-
 TAPE22
 FILE-14



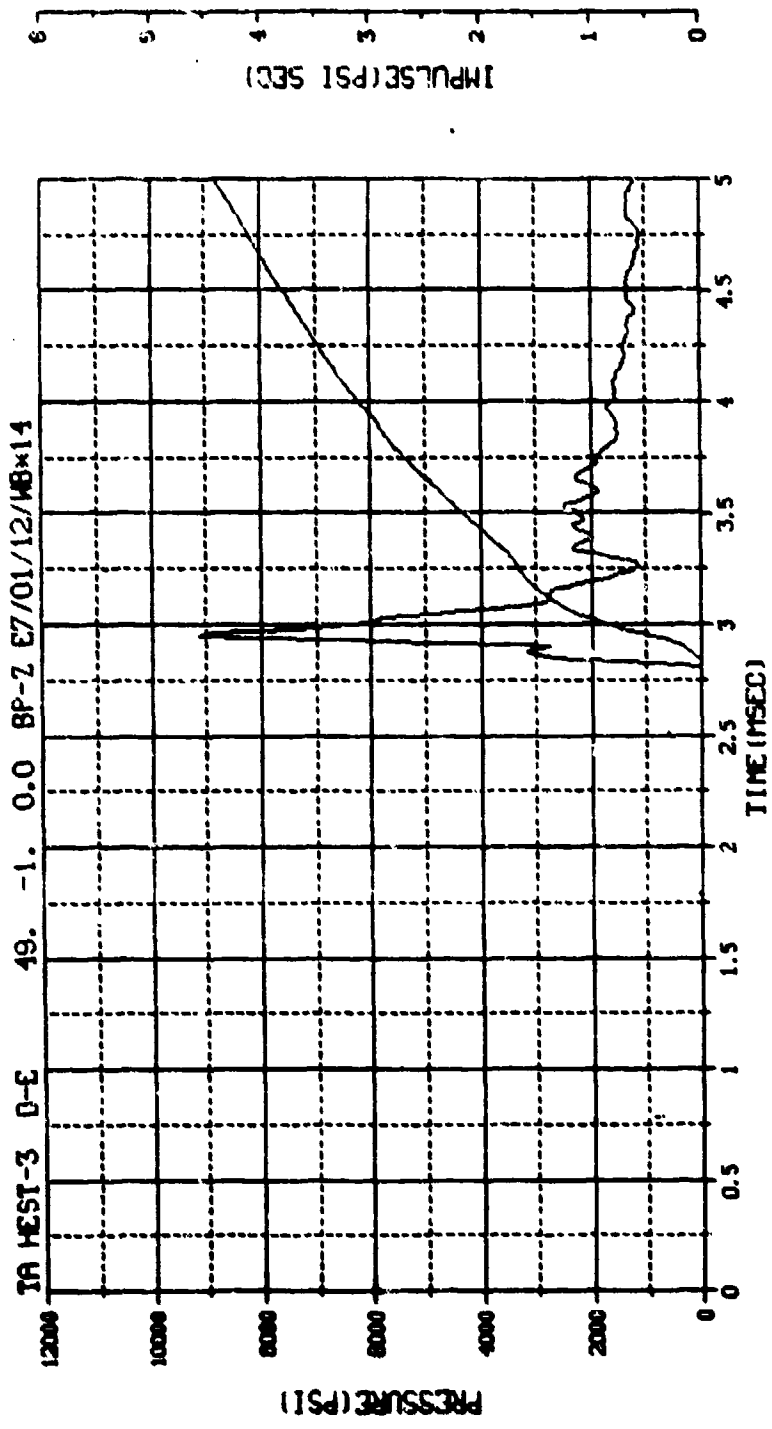
M.N. = 13 E.U. -0.000,6602.000 VSN=
 TSKIP=12.640 DIGITS=0.000,970.000 TAPE22
 S.R. =100.00 KHZ 8 50 AM, 2 MAY 78. FILE=14



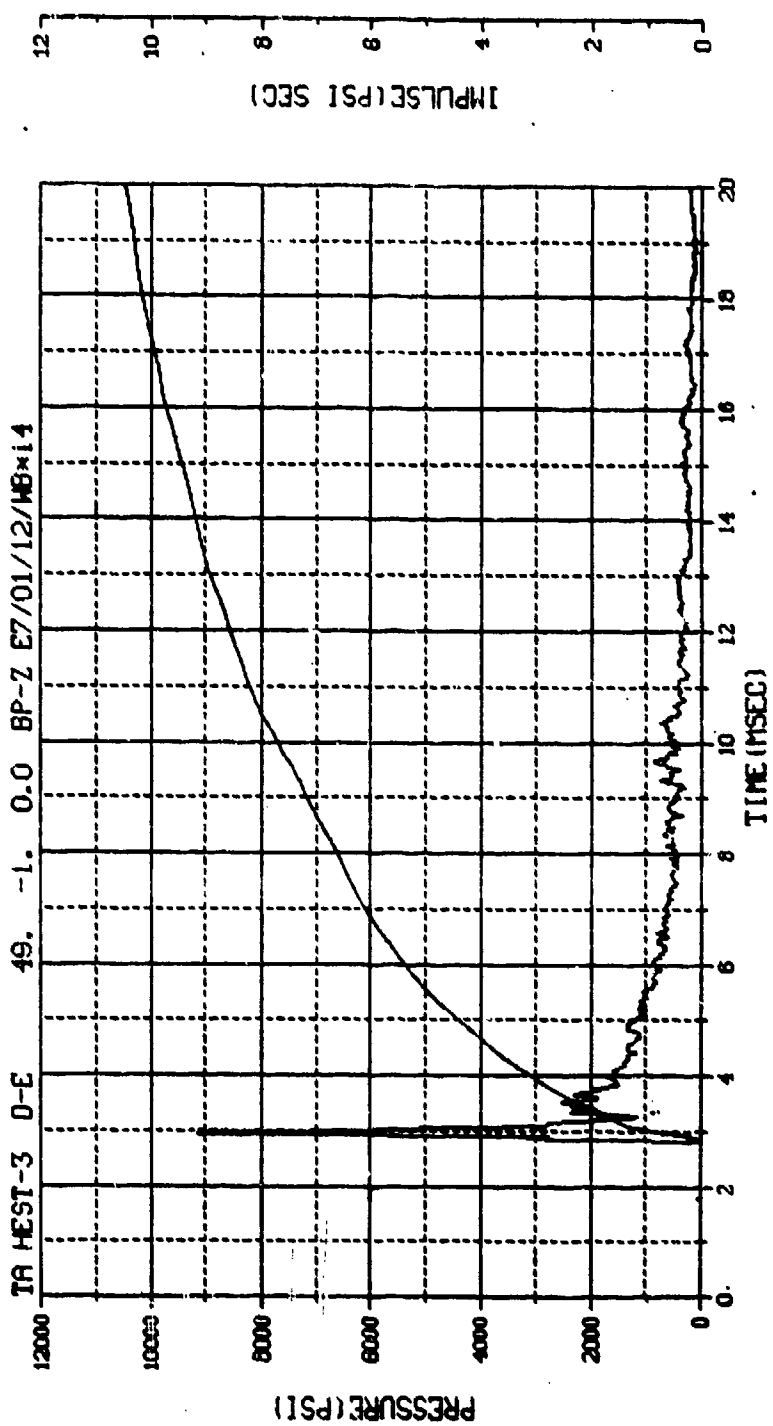
M.N. - 13
 TSKIP-12.640
 S.R. -100.00 KHZ

E.U. -0.000,6602.000
 DIGITS-0.000,970.000
 8 50 AM, 2 MAY 78.

VSN-
 TAPE22
 FILE-14

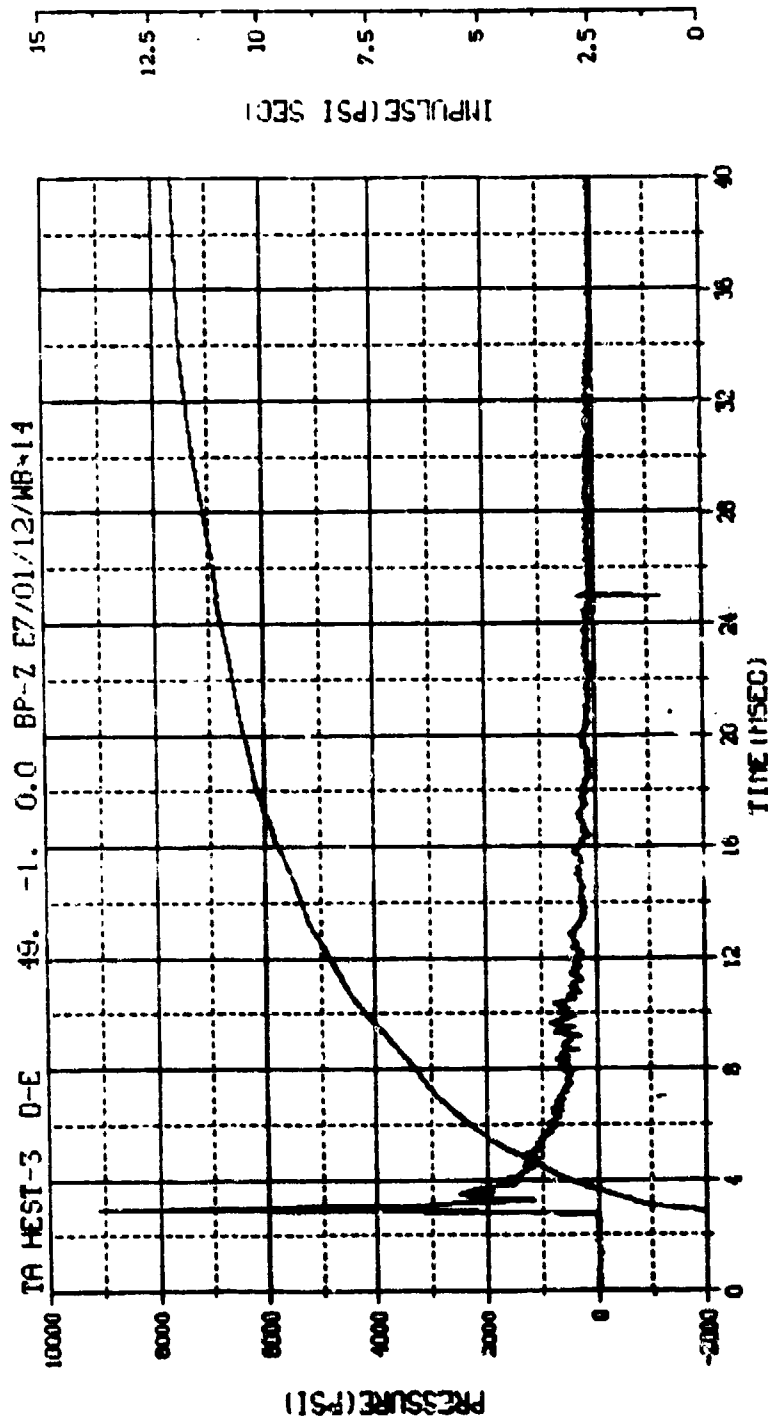


M.N. - 14 E.U. -0.000,6965.000 VSN-
 TSKIP-12.640 DIGITS-0.000,1002.000 TAPE22
 S.R. -100.00 KHZ 8 50 AM, 2 MAY 78. FILE-18

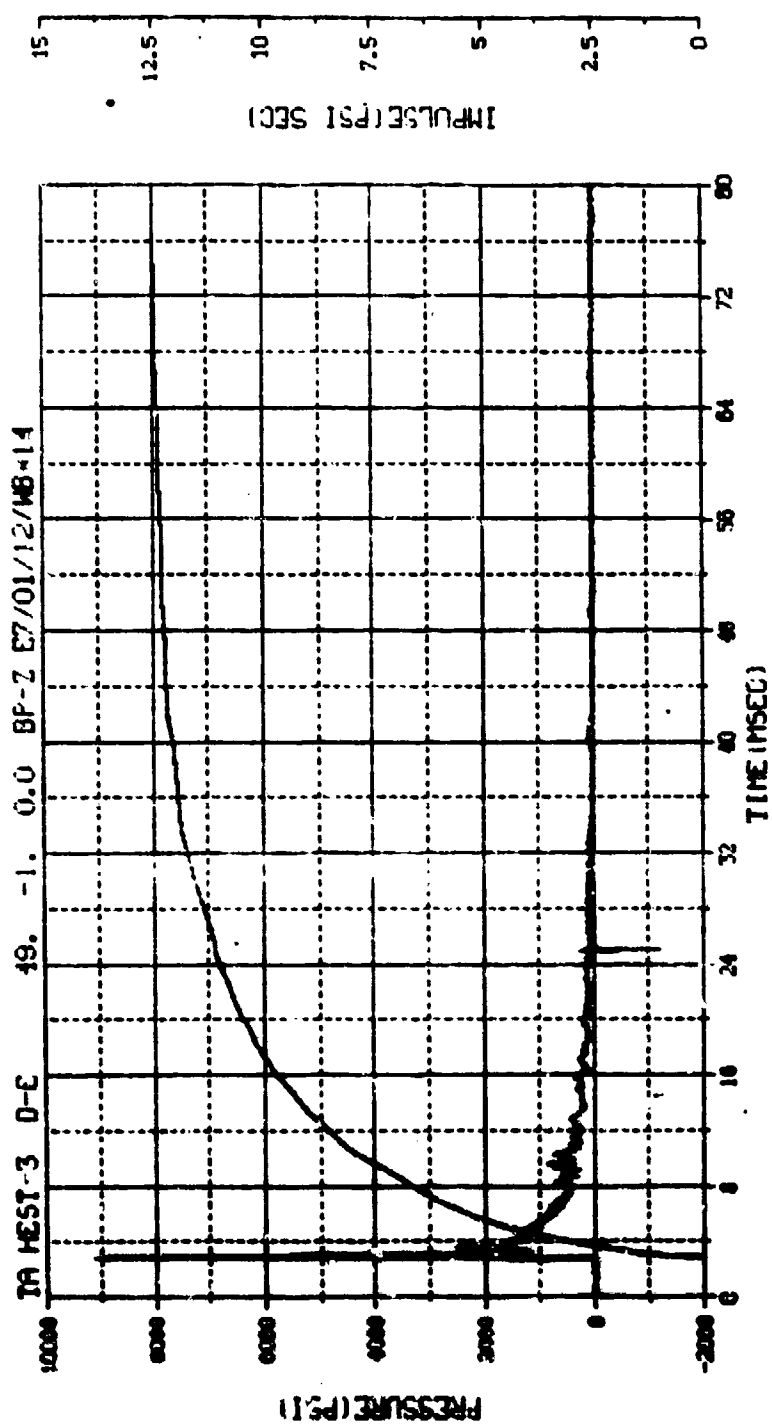


525

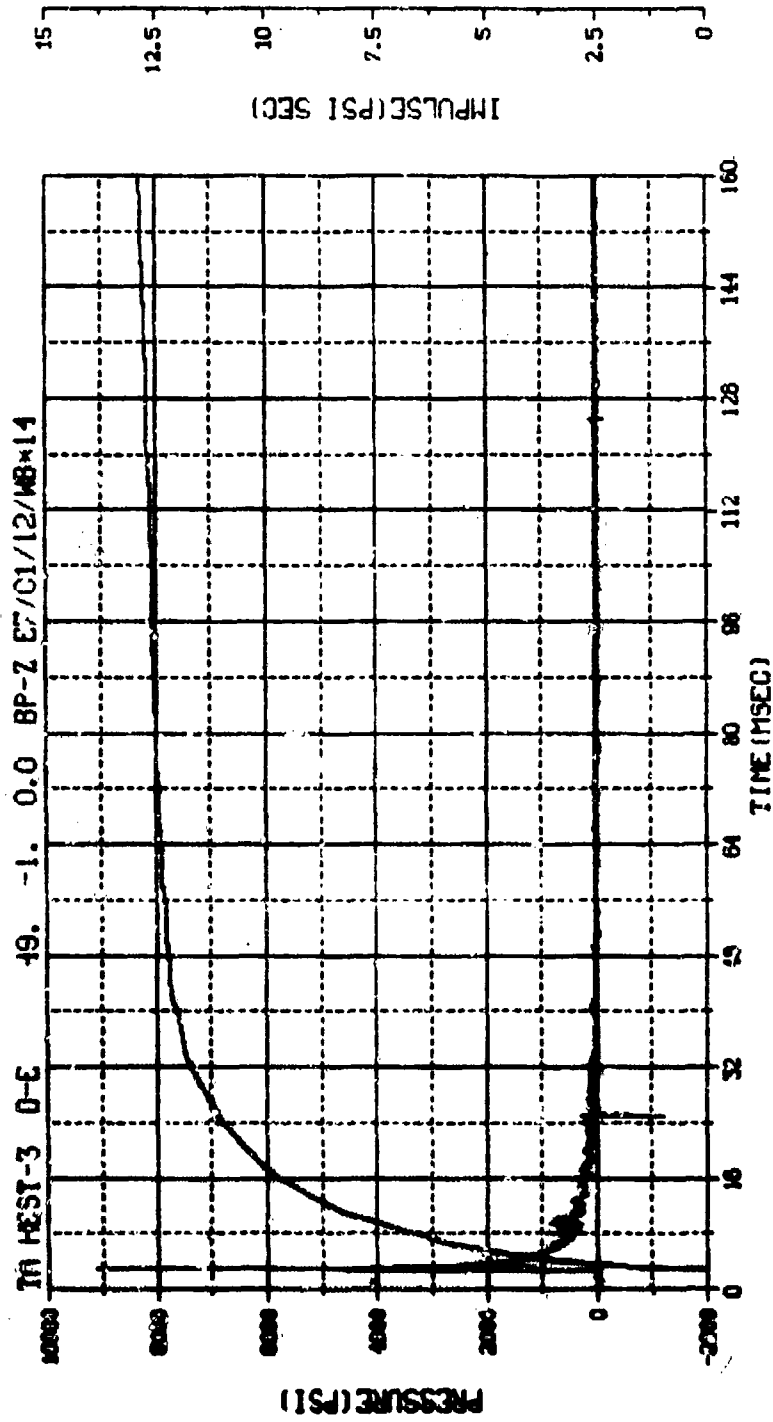
M.N. - 14	E.U. -0.000,6965.000	VSN-
TSKIP-12.640	DIGITS-0.000,1002.000	TAPE22
S.R. -100.00 KHZ	8 50 PW, 2 MAY 78.	FILE-18



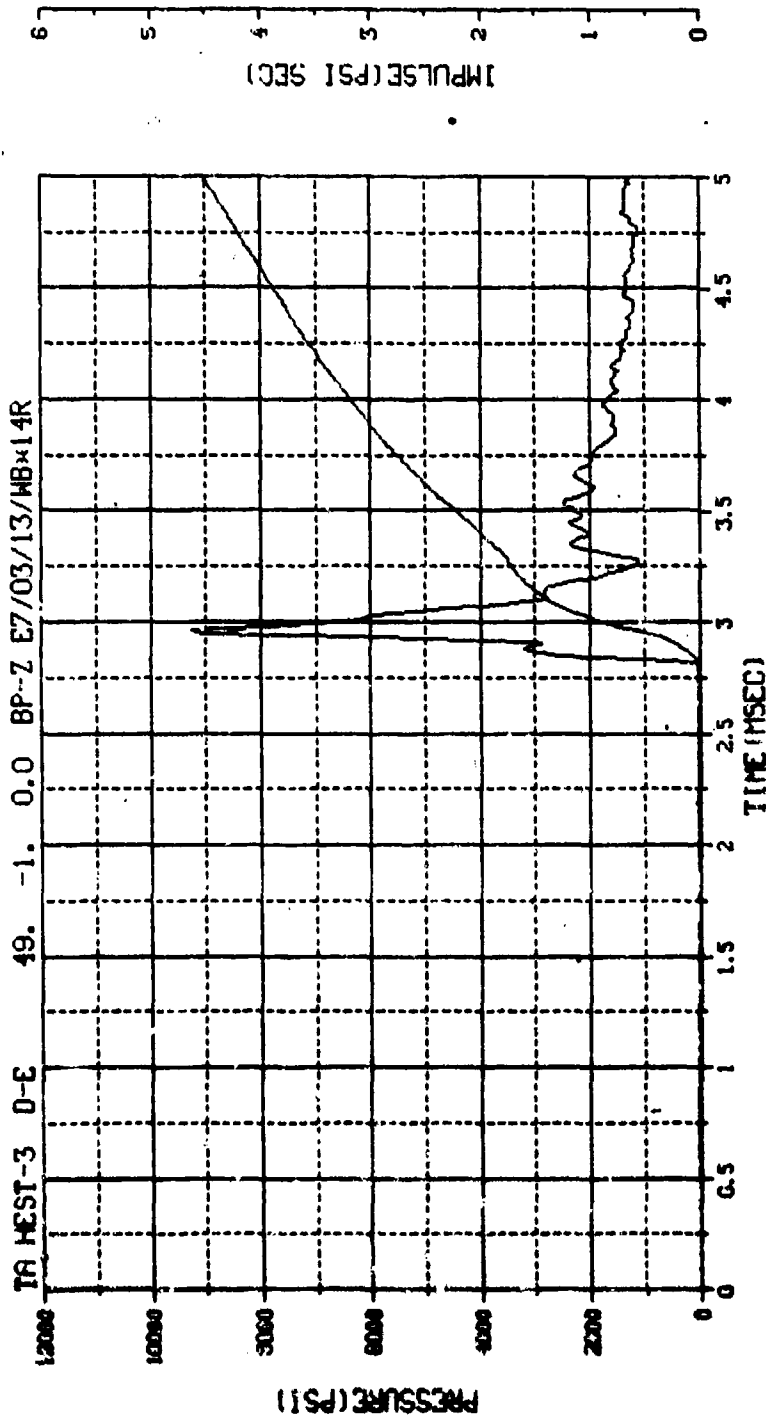
M.N. - 14	E.U. -0.000,6965.000	VSN-
TSKIP-12.640	DIGITS-0.000,1002.000	TAPE22
S.R. -100.00 KHZ	8 50 AM, 2 MAY 78.	FILE-18



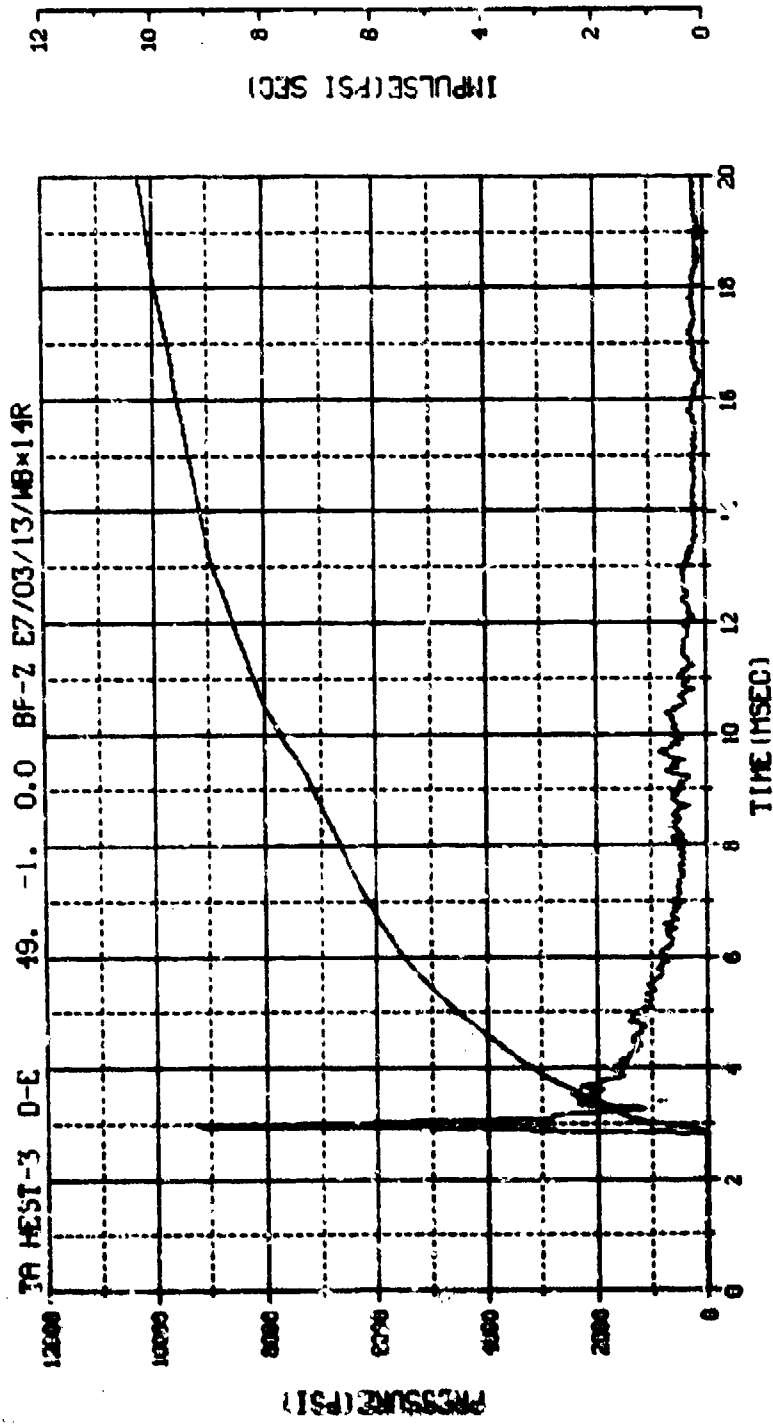
M.N. - 14 E.U. -0.000,6965.000 VSN-
 TSK(IP)-12.640 DIGITS-0.000,1002.000 TAPE22
 S.R. -100.00 KHZ 8 50 AM, 2 MAY 78. FILE-18



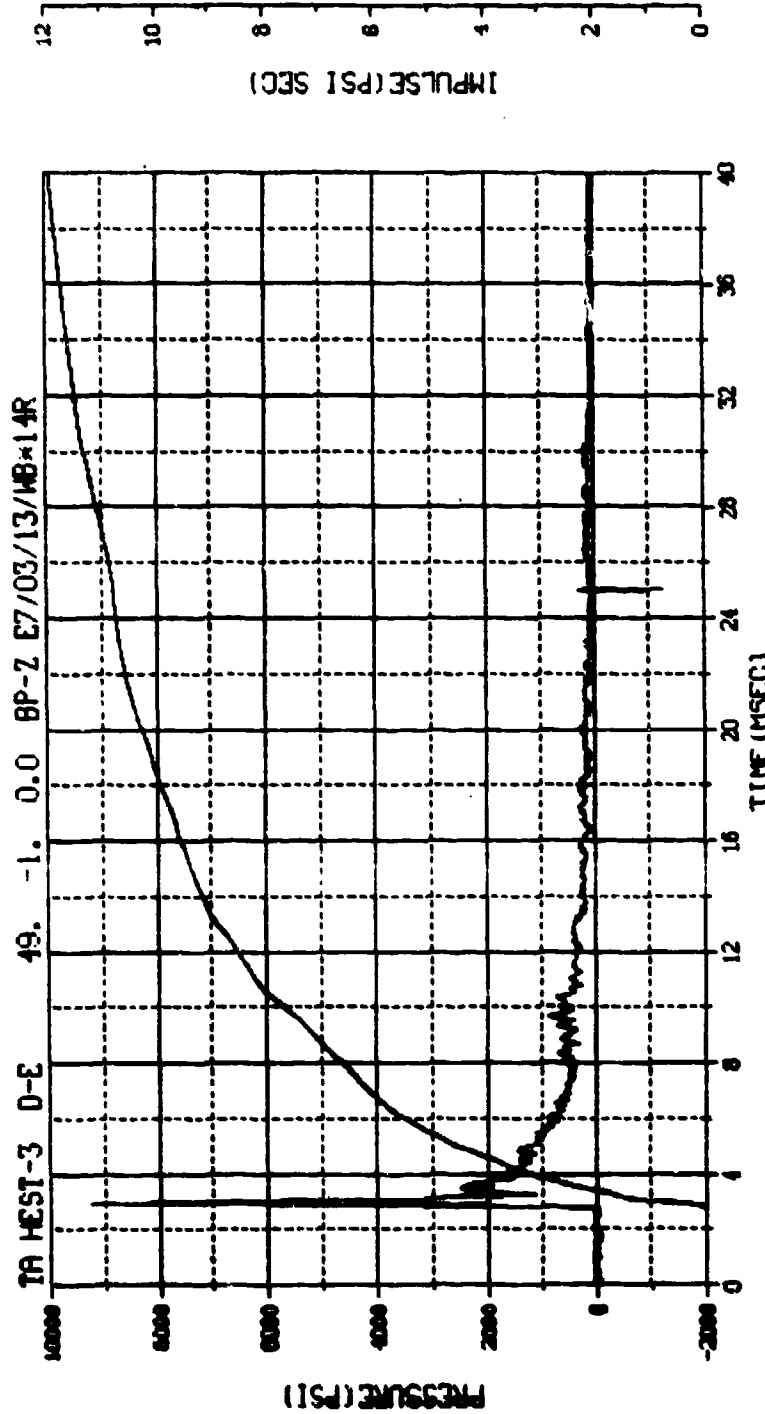
M.N. - 14
 TSKIP-12.640
 S.R. -100.00 KHZ
 E.U. -0.000,6965.000
 DIGITS-0.000,1002.000
 8 50 AM, 2 MAY 78.
 VSN-
 TAPE22
 FILE-18



M.N. - 14	E.U. -0.000,6965.000	VSN-
TSKIP-12.640	DIGITS-0.000,614.250	TAPE22
S.R. -100.00 KHZ	8 50 FT, 2 MAY 78.	FILE-28

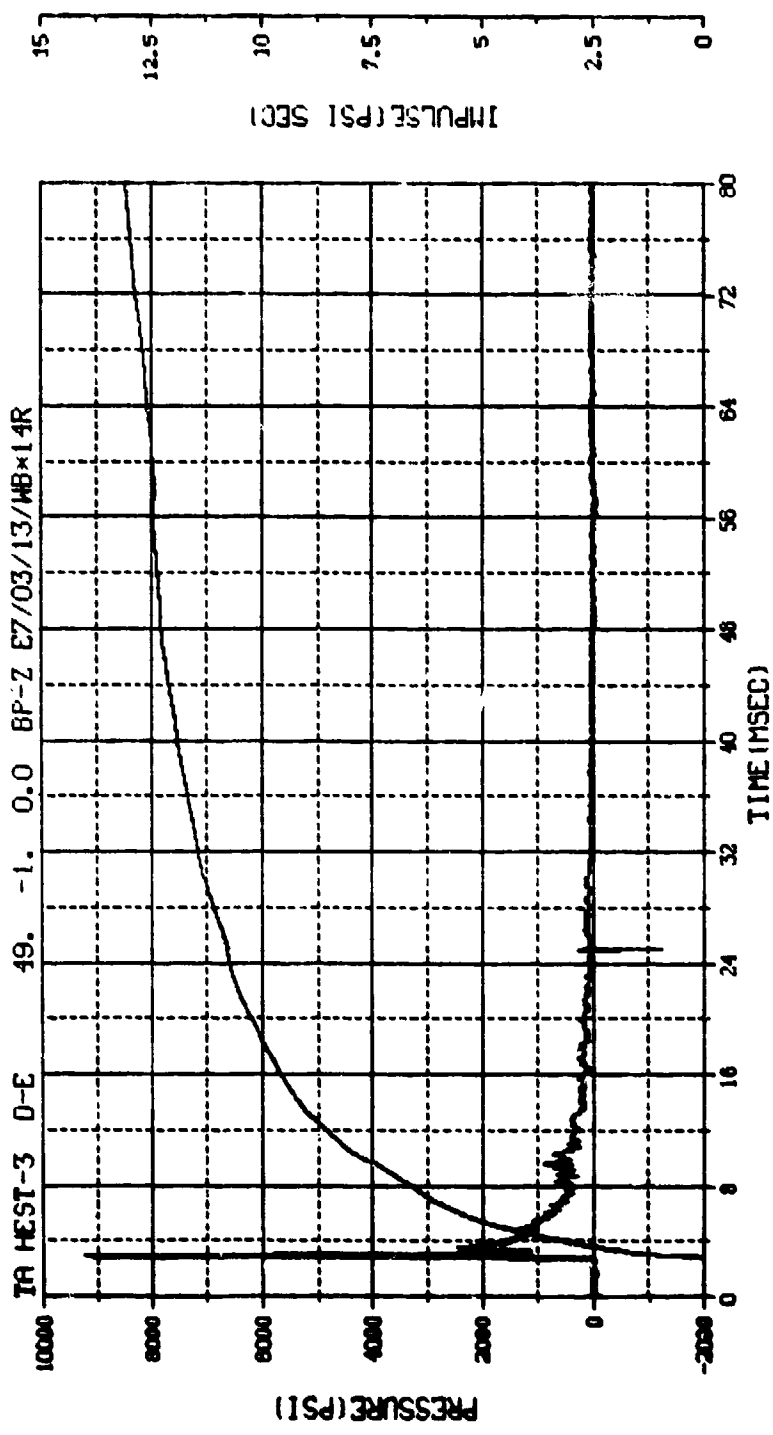


M.N. - 14	E.U. -0.000,6965.000	VSN-
TSKIP-12.640	DIGITS-0.000,614.250	TAPE22
S.R. -100.00 KHZ	8 50 MM, 2 MAY 78.	FILE-28

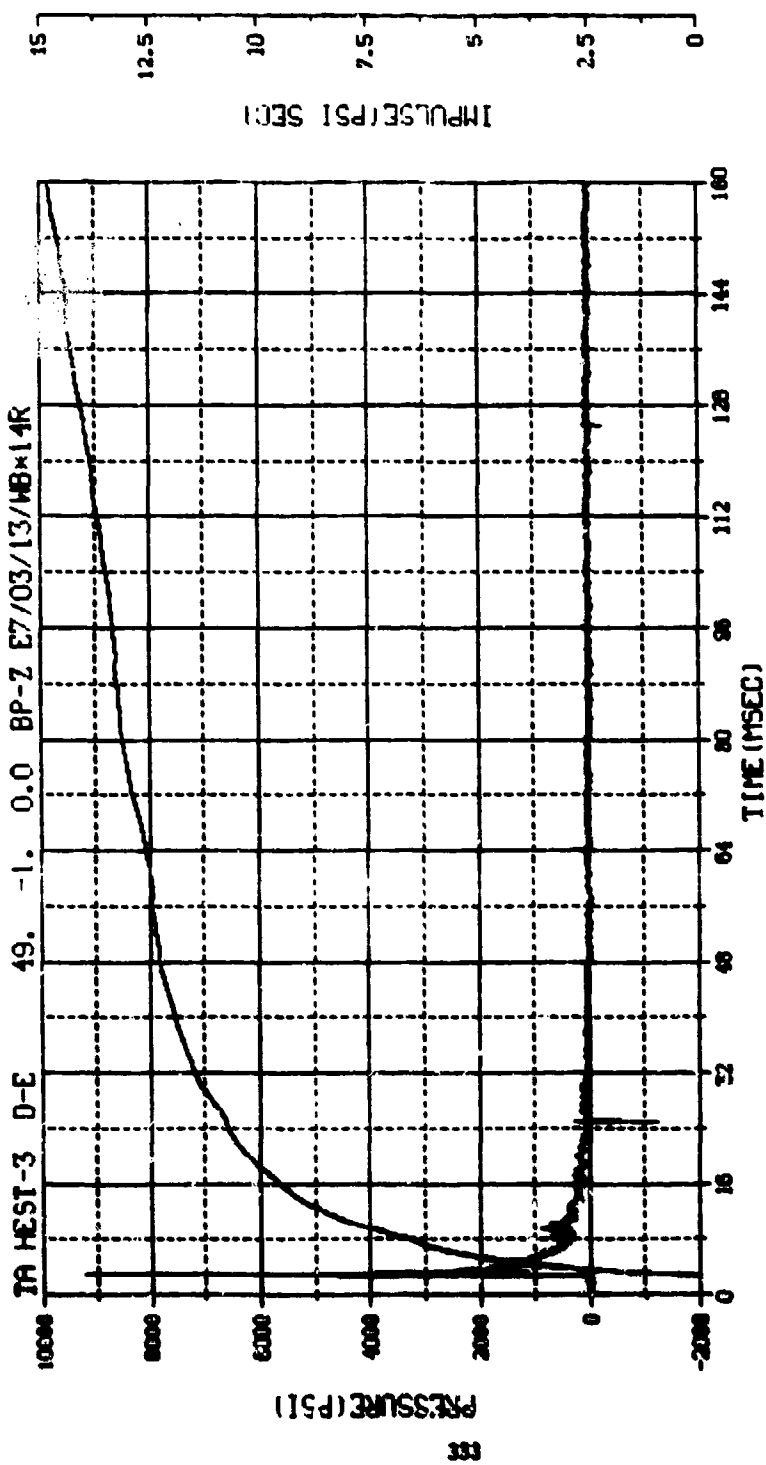


131

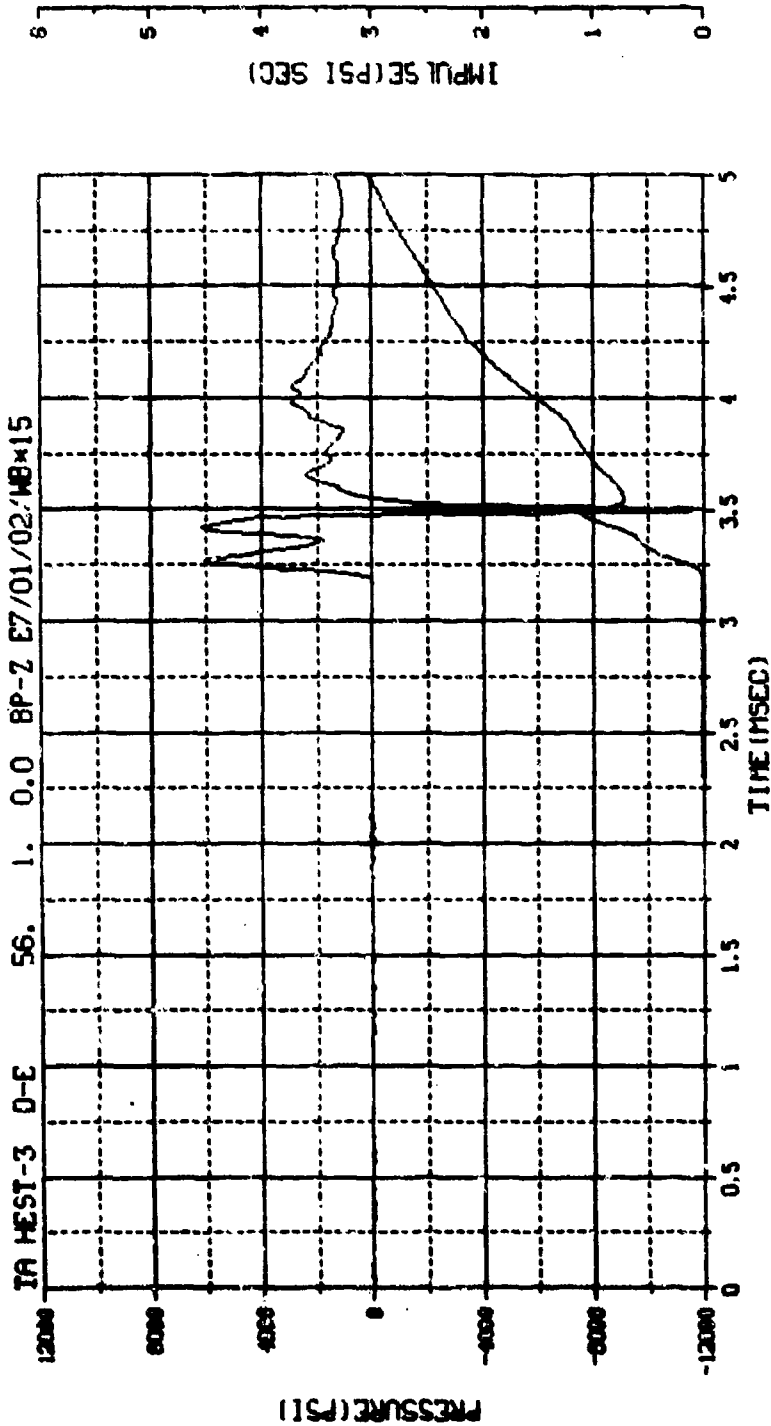
M.N. - 14	E.U. -0.000,6965.000	VSN-
TSKIP-12.640	DIGITS-0.000,614.250	TAPE22
S.R. -100.00 KHZ	8 50 AM, 2 MAY 78.	FILE-28



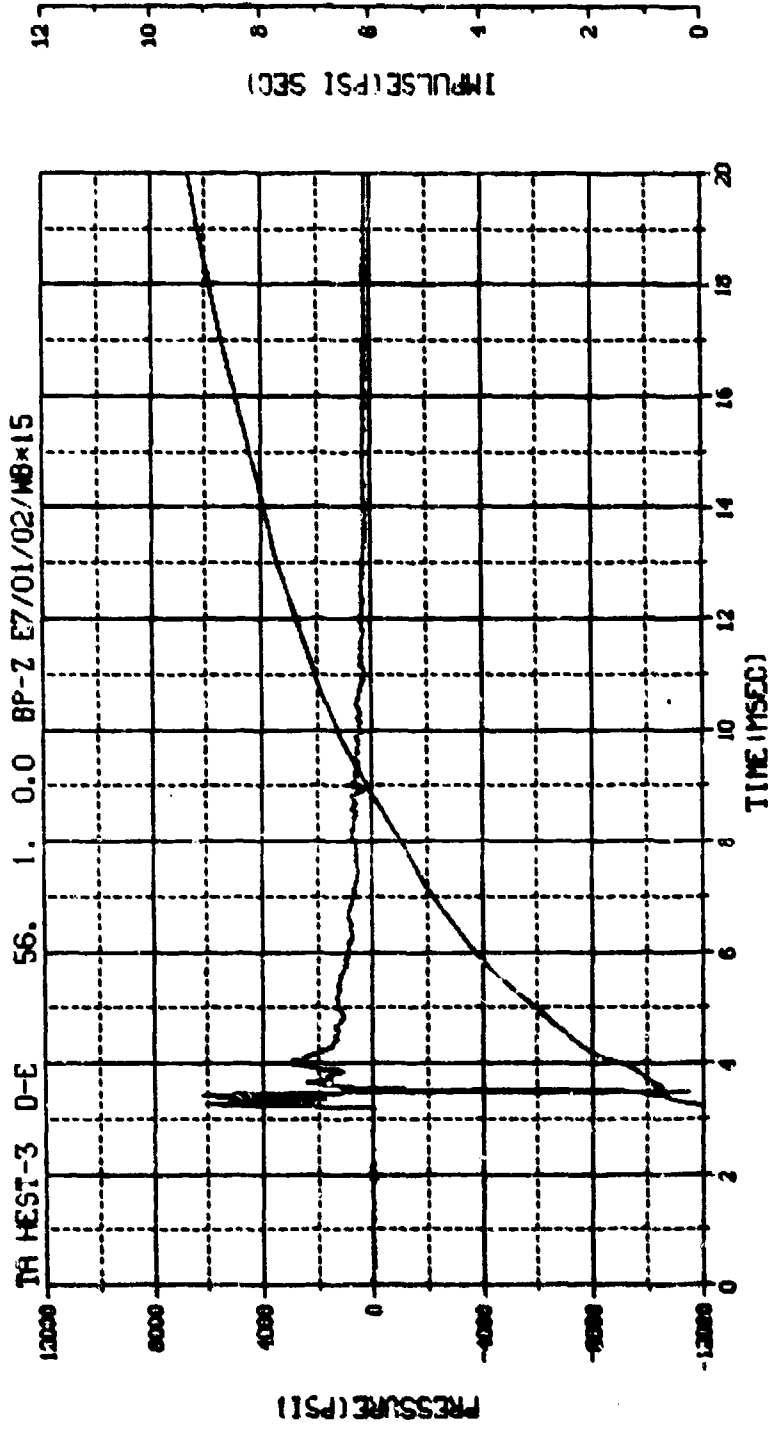
M.N. - 14 E.U. -0.000,6965.000 VSN-
 TSKIP-12.640 DIGITS-0.000,614.250 TAPE22
 S.R. -100.00 KHZ 8 50 AM, 2 MAY 78. FILE-28



M.N. - 14 VSN-
 TSKIP-12.640 E.U. -0.000,6965.000 TAPE22
 S.R. -100.00 KHZ DIGITS-0.000,614.250 FILE-28
 8 50 AM, 2 MAY 78. 1

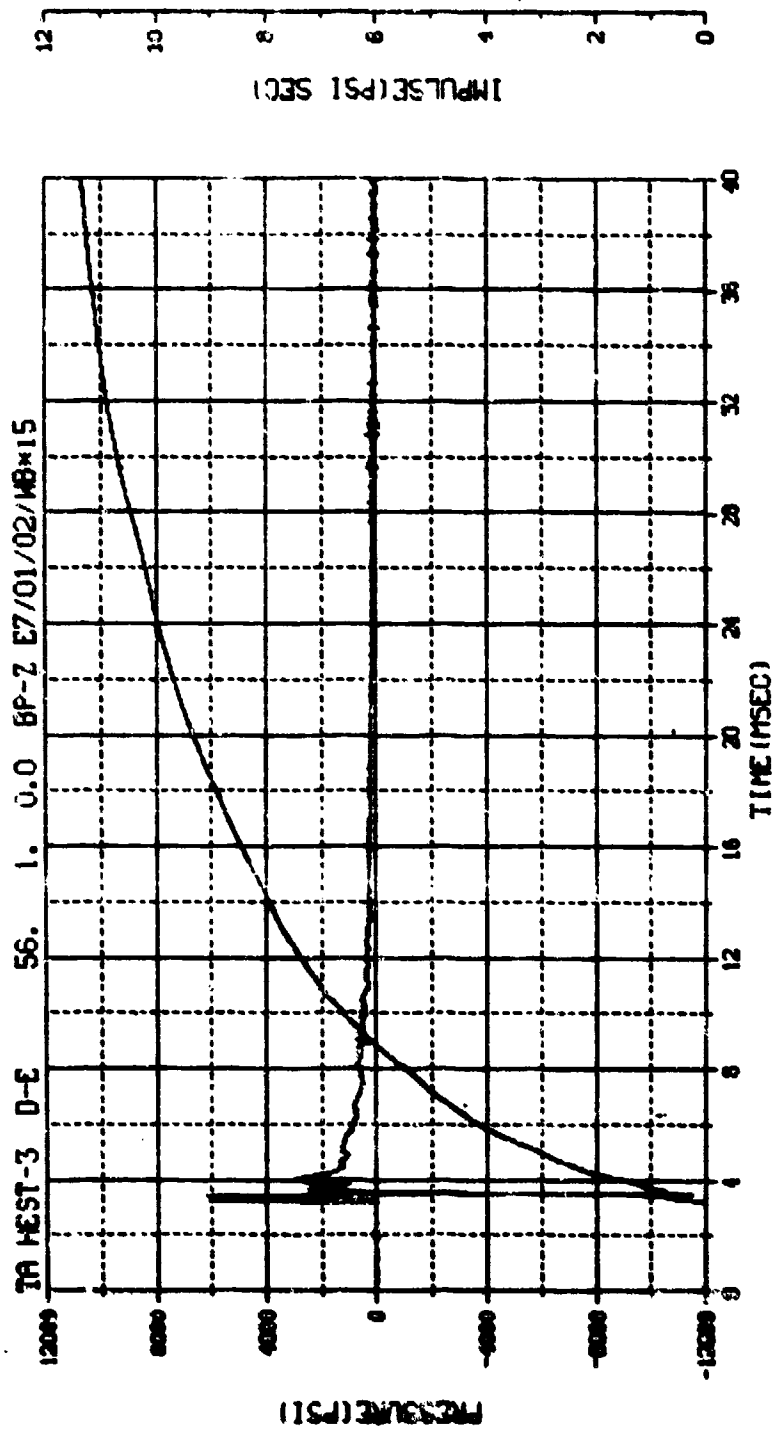


M.N. - 15 E.U. -0.000,4108.000 VSN=
 TSKIP-12.640 DIGITS-0.000,675.000 TAPE22
 S.R. -100.00 KHZ 8 50 AM, 2 MAY 78. FILE-4



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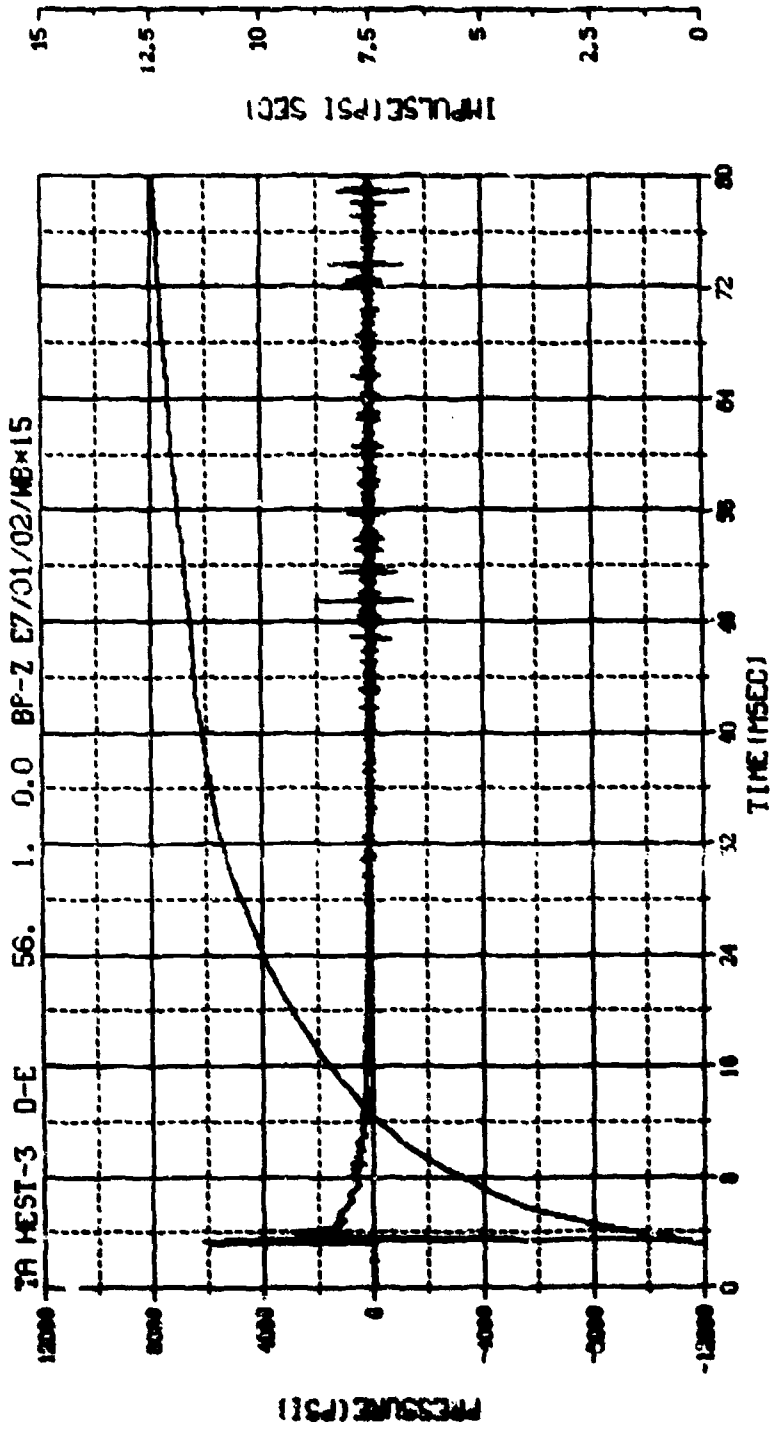
M.N. - 15	E.U. -0.000,4108.000	VSN-
TSKIP-12.540	DIGITS-0.000,675.000	TAPE22
S.R. -100.00 KHZ	8 50 AM, 2 MAY 78.	FILE-4



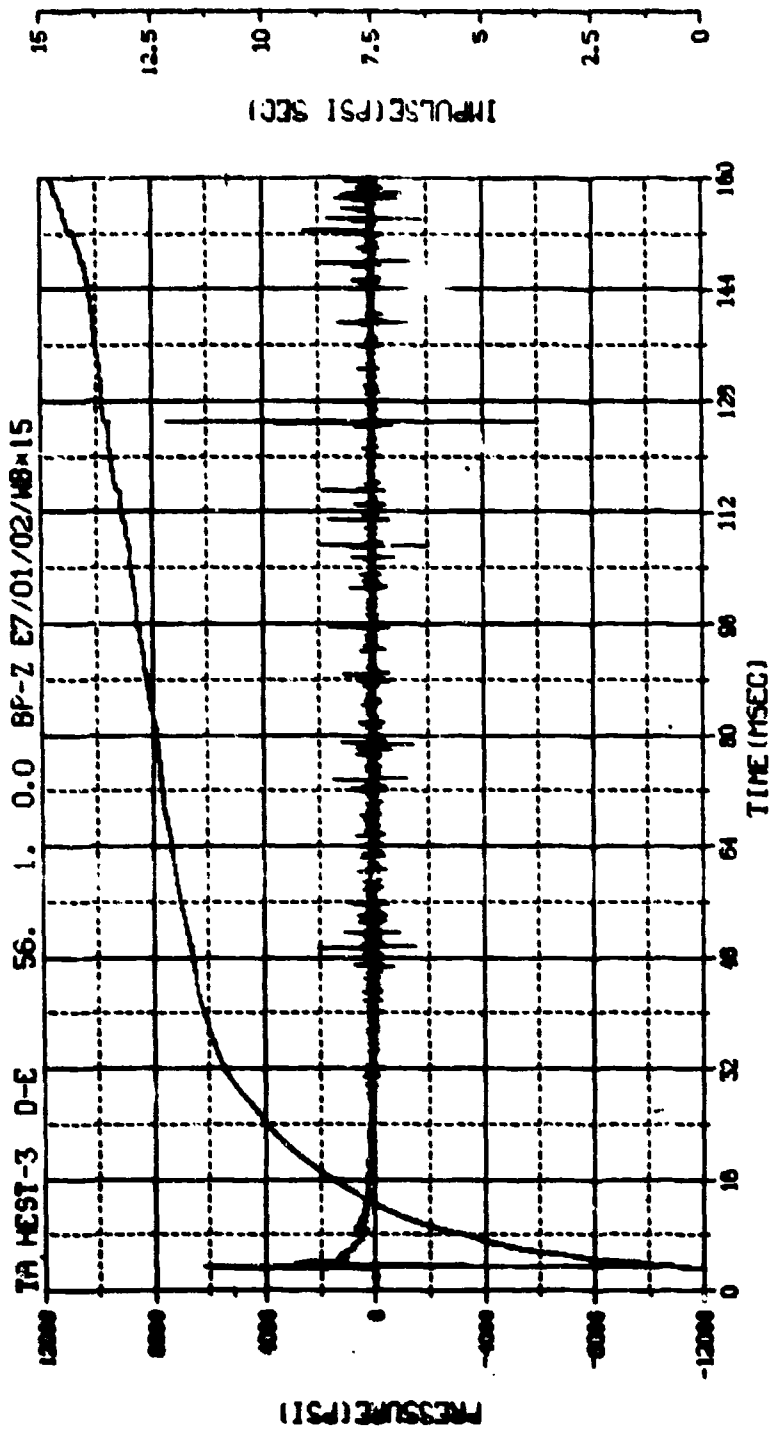
M.N. - 15
 TSKIP-12.640
 S.R. -100.00 KHZ

E.U. -0.000,4108.000
 DIGITS-0.000,675.000
 8 50 AM, 2 MAY 78.

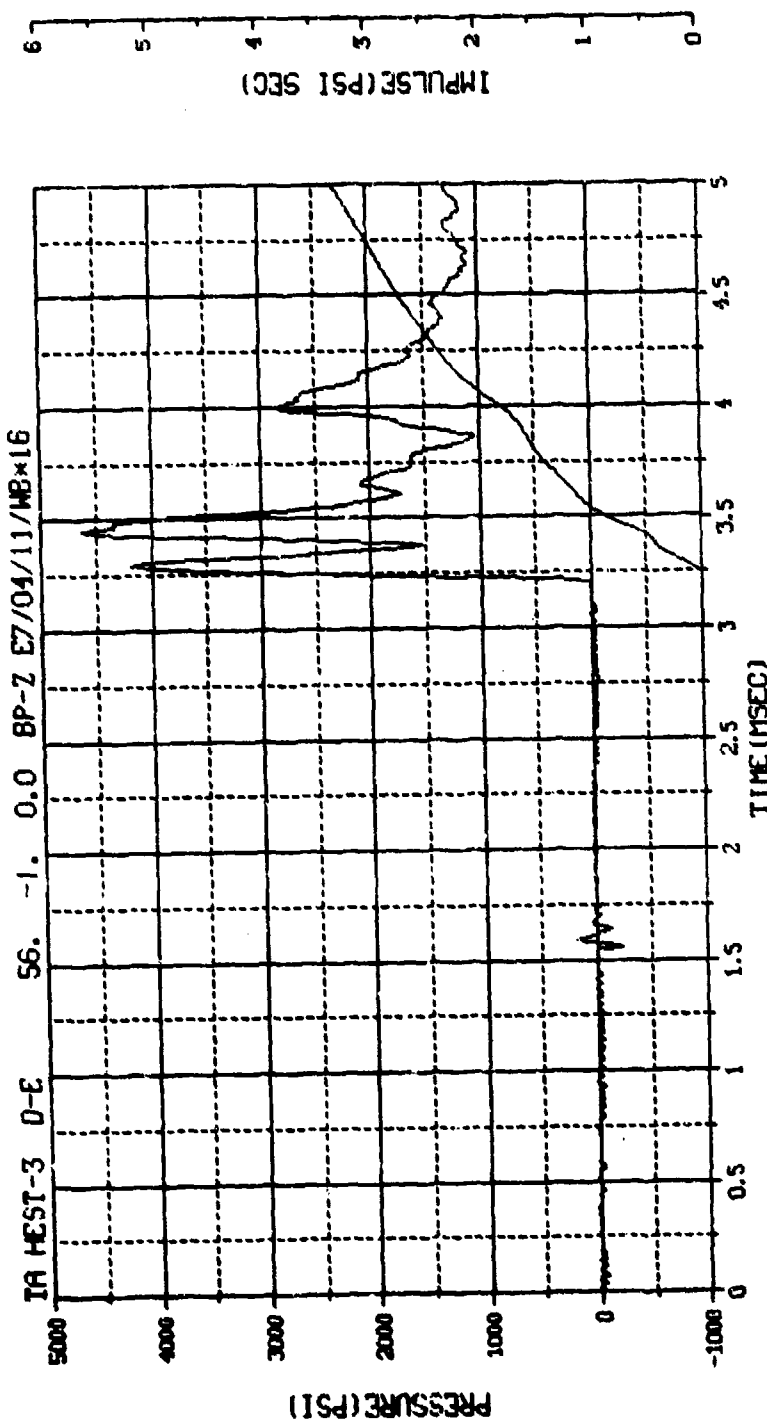
VSN-
 TAPE22
 FILE-4



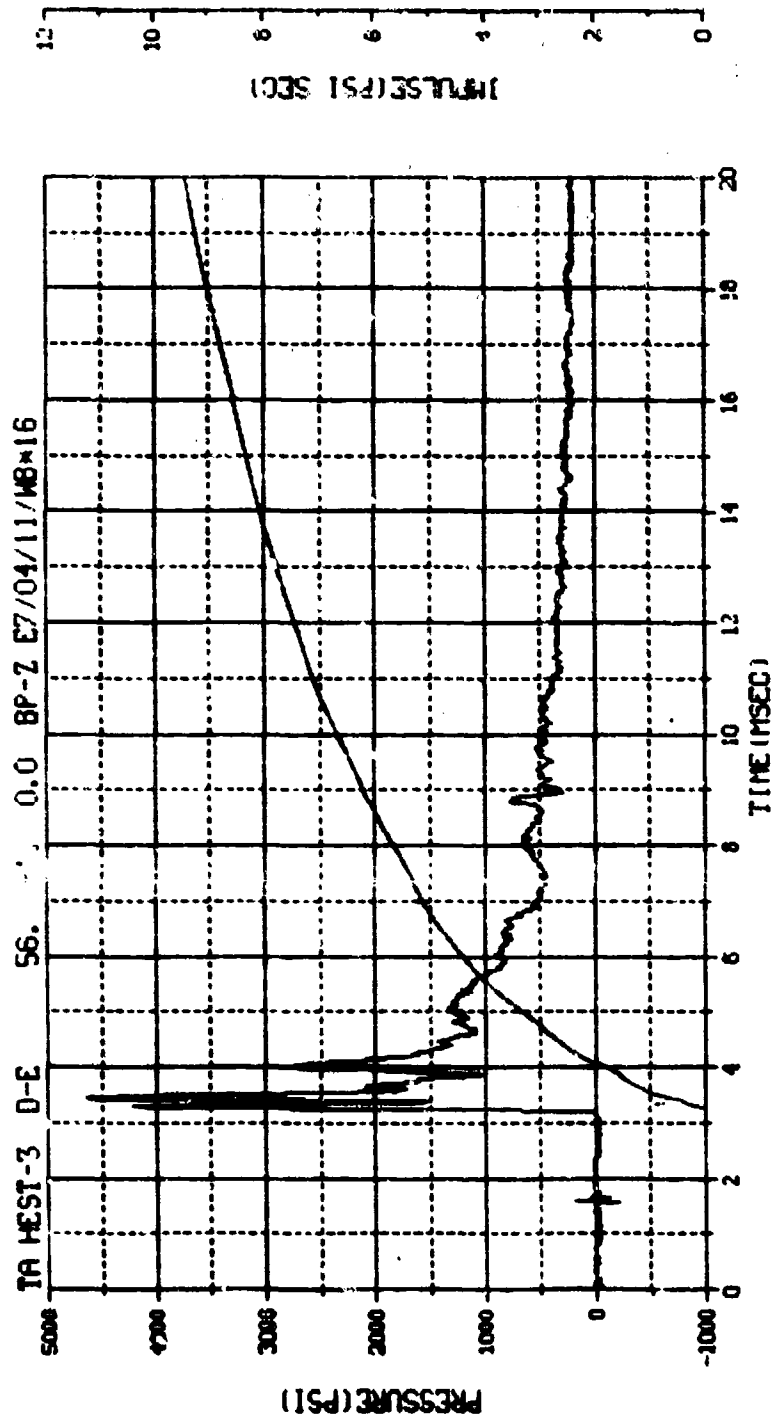
N.N. = 15	E.U. = -0.000, 4108.000	VSN-
TRK/P = 12.640	DIGITS = 0.000, 675.000	TAPE 22
S.R. = 100.00 KHZ	8 50 AM, 2 MAY 78.	FILE-4



M.N. - 15	E.U. -0.000, 4108.000	VSN-
TSKIP-12.640	DIGITS-0.000, 675.000	TAPE22
S.R. -100.00 KHZ	8 50 FM, 2 MAY 78.	FILE-4



M.N. - 18	E.U. -0.000,4093.000	VSN- ED23
TSKIP-12.650	DIGITS-0.000,680.000	TAPE22
S.R. -100.00 KHZ	11 36 AM, 2 MAY 78.	FILE-46

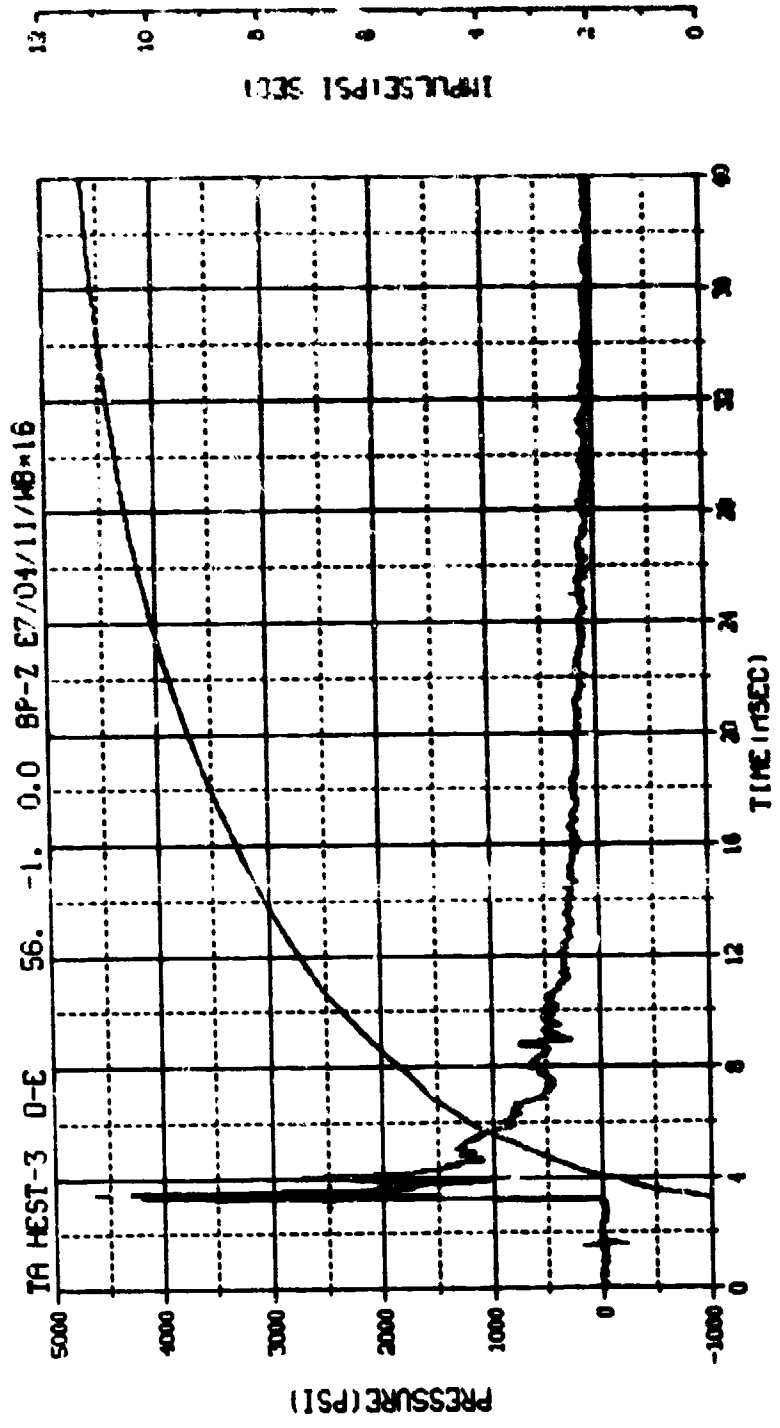


M.N. - 16
 TSKIP-12.650
 S.R. -100.00 KHZ

E.U. -0.000,4093.000
 DIGITS-0.000,680.000
 11 36 AM, 2 MAY 78.

VSN- ED23
 TAPE22
 FILE-46

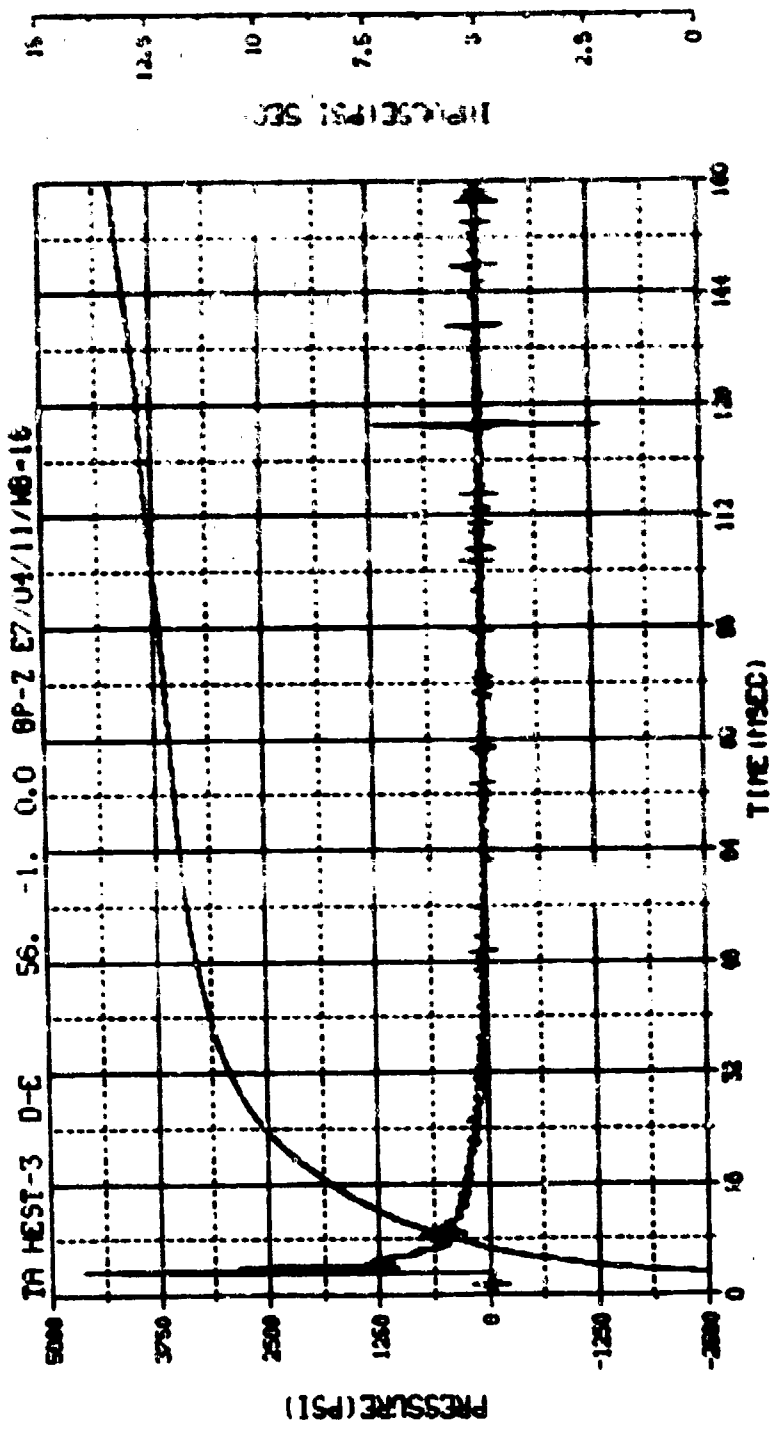
1



M.N. - 16
 TSKIP-12.650
 S.R. -100.00 KHZ

E.U. -0.000, 4093.000
 DIGITS-0.000, 680.000
 8 50 AM, 2 MAY 78.

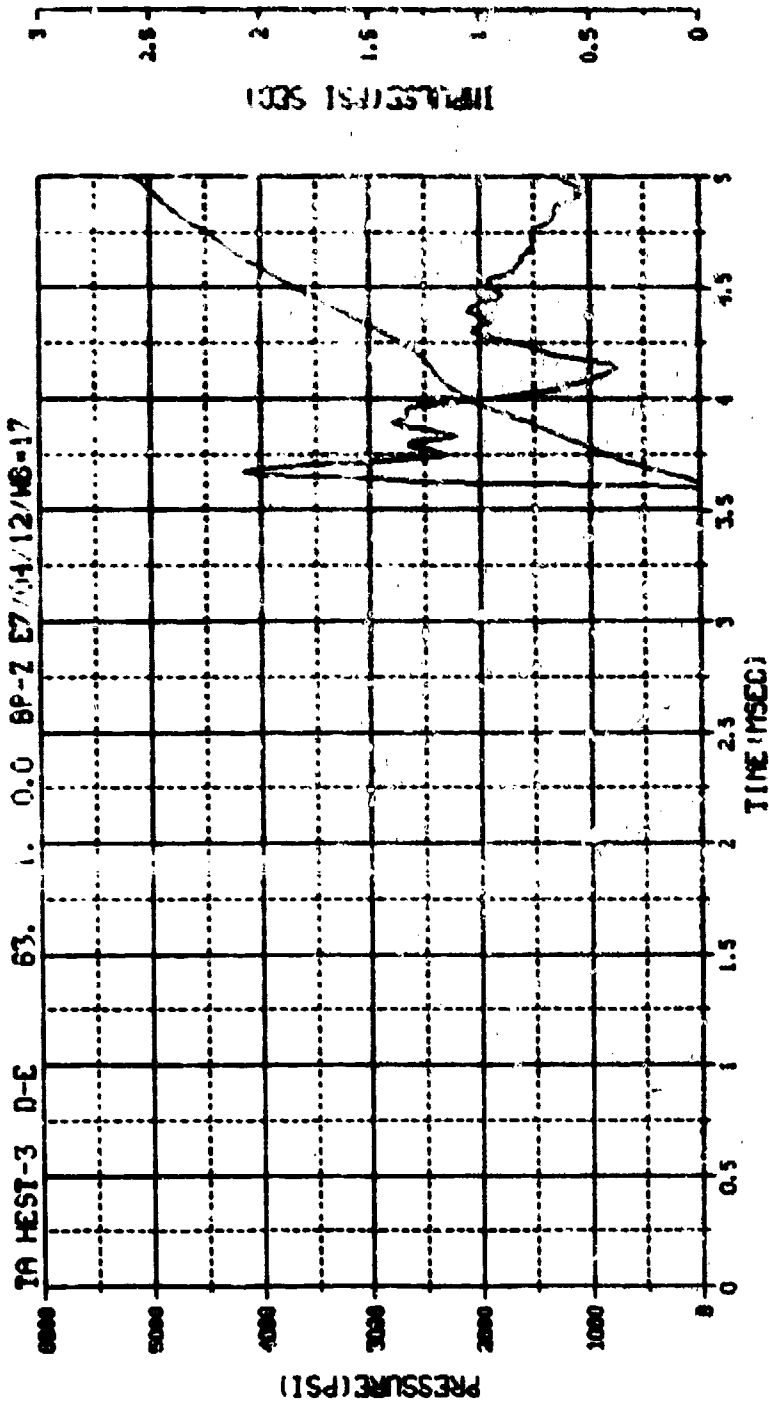
VSN-
 TAPE 22
 FILE-46



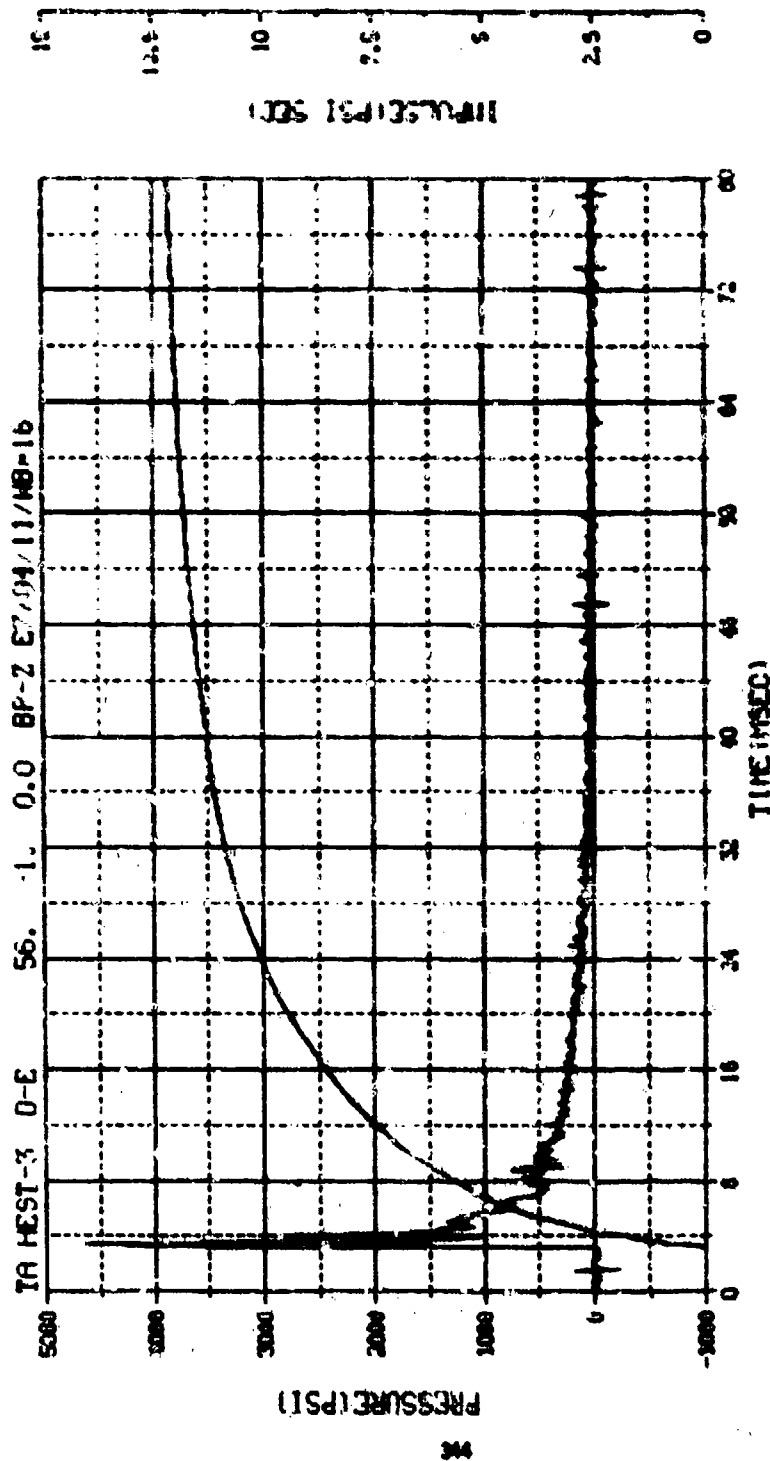
M.N. - 16
 TSXIP-12.650
 S.R. -100.00 KHZ

E.U. -0.000, 4093.000
 DIGITS-0.000, 680.000
 8 50 AM, 2 MAY 78.

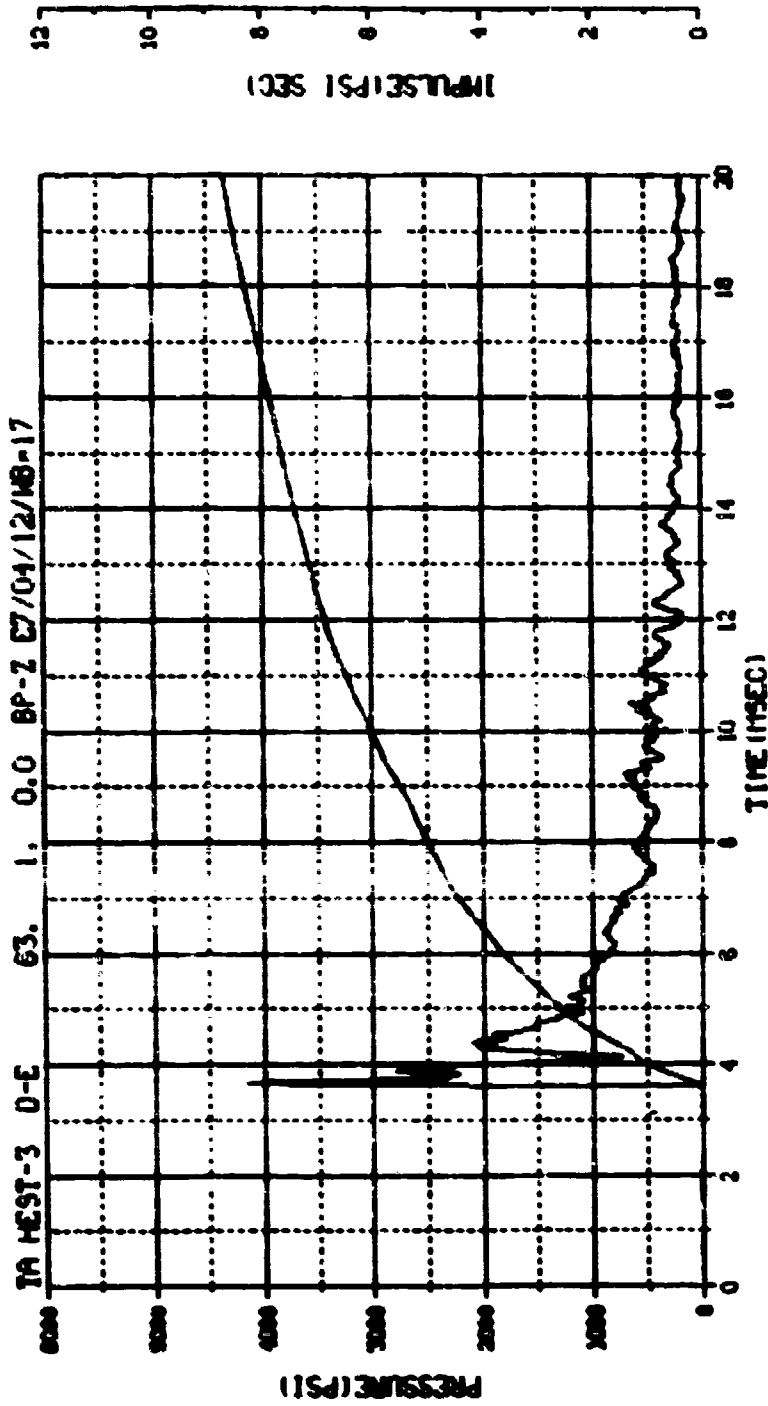
VSN-
 TIME22
 FILE-46



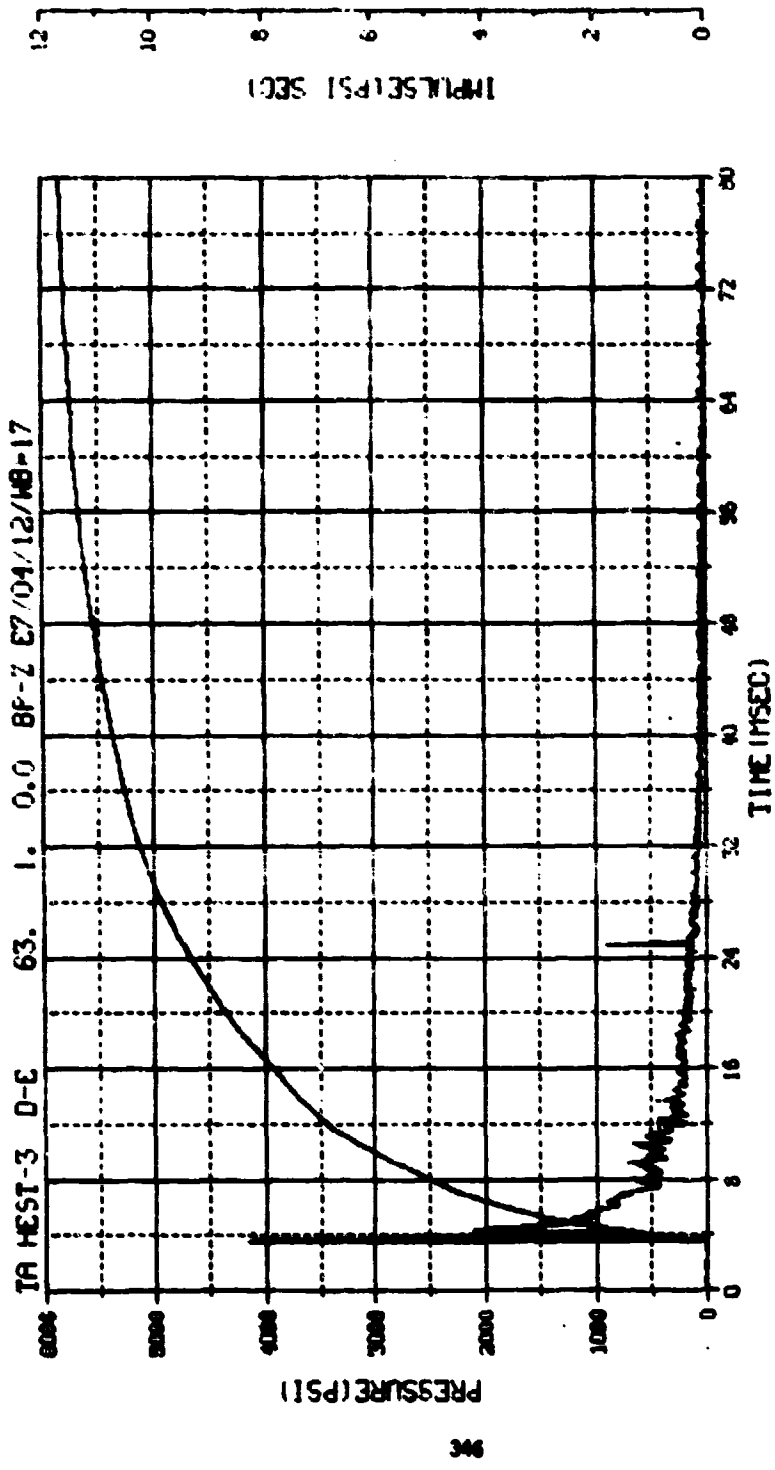
M.N. - 17	E.U. -0.000,4004.000	YSM- EDGE
TSKIP-12.650	DIGITS-0.000,760.750	TAPE22
S.R. -100.00 KHZ	11 36 AM, 2 MAY 78.	FILE-48



M.N. - 16	E.U. -0.000, 4083.000	VSM-
TSK (P-12.650	DIGITS-0.000, 680.000	TAPE 22
S.R. -100.00 KHZ	6 50 CM, 2 MAY 78.	FILE-46



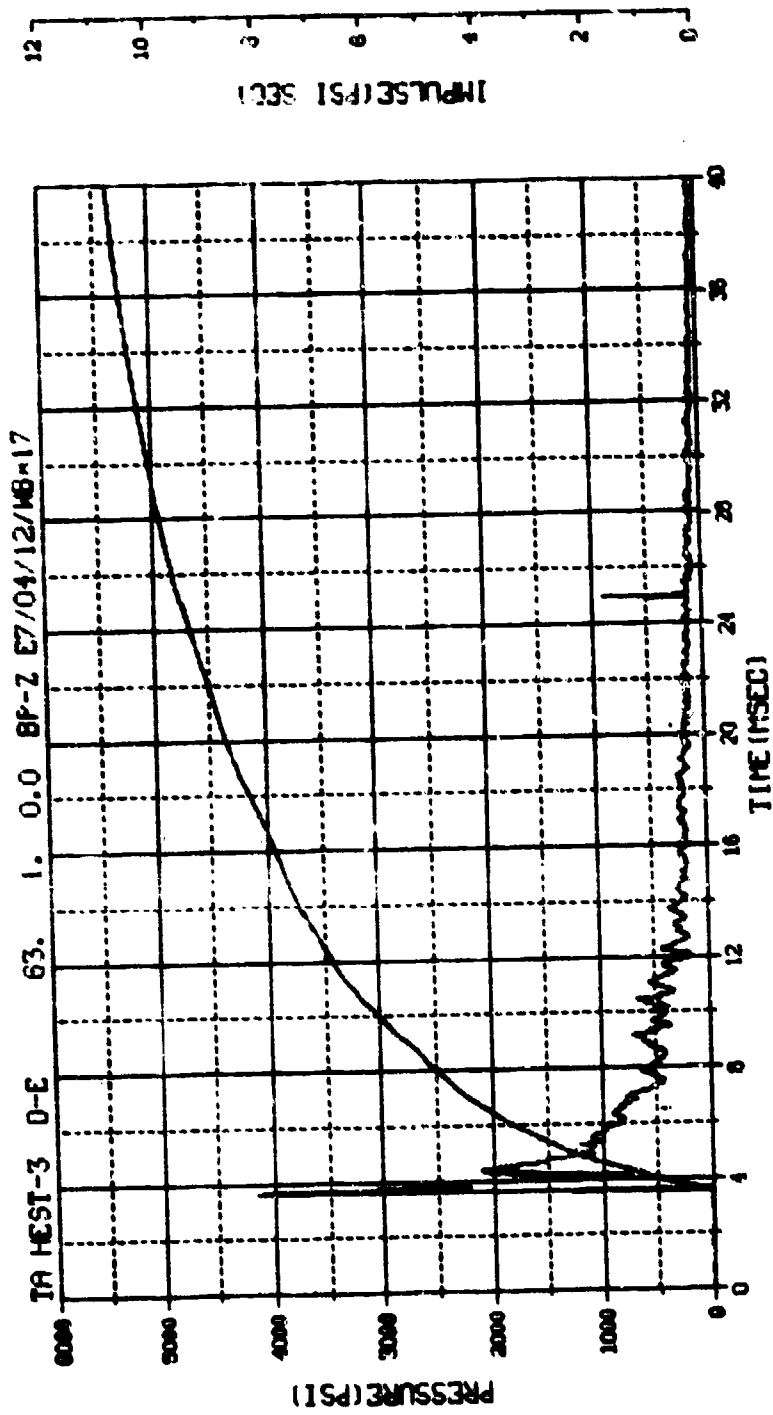
M.N. - 17	E.U. -0.000,4094.000	VSM- ED23
TSK IP-12.650	DIGITS-0.000,760.750	TAPE22
S.R. -100.00 KHZ	11 36 AM, 2 MAY 78.	FILE-48



M.N. = 17
 TSKIP=12.650
 S.R. =100.00 KHZ

E.U. =0.000,4094.000
 DIGITS=0.000,760.750
 8 50 AM, 2 MAY 78.

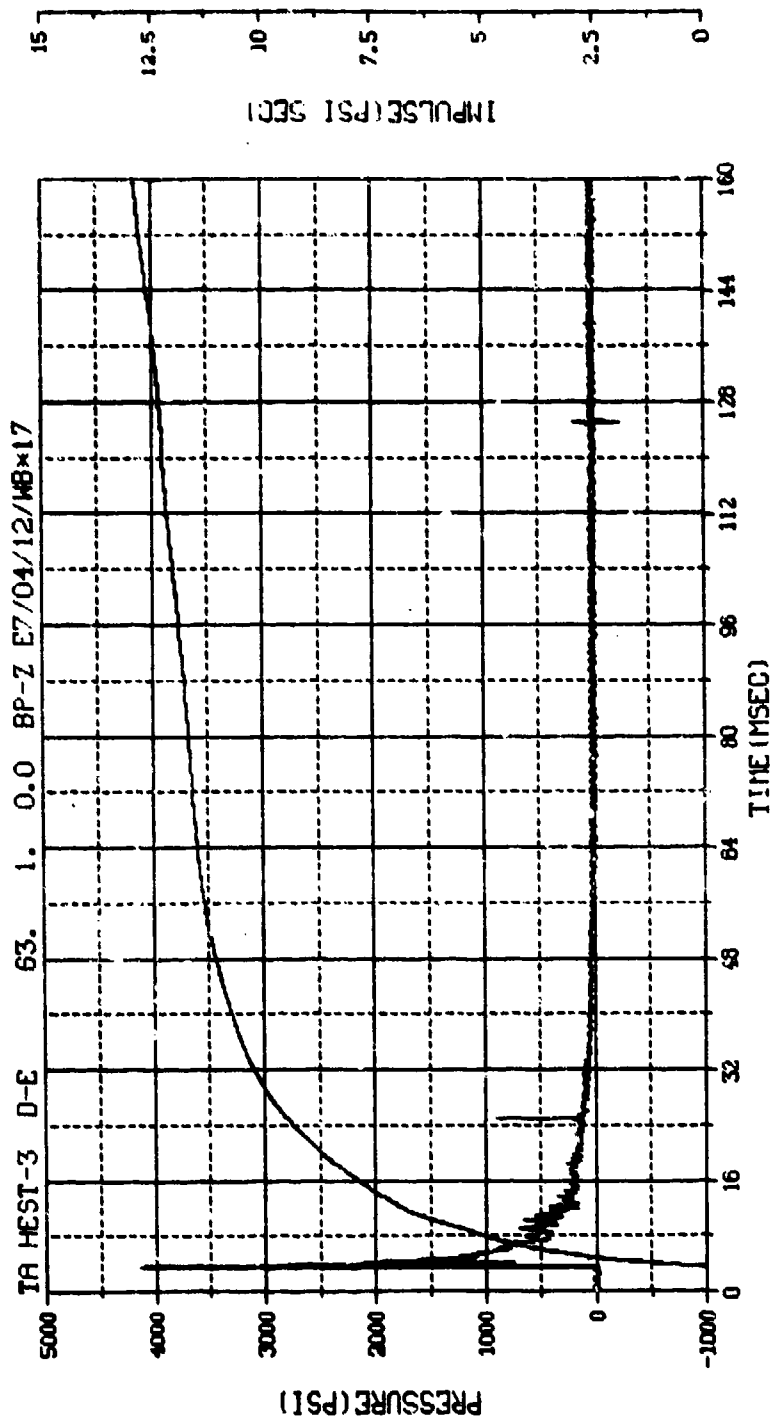
VSM-
 TAPE22
 FILE=48



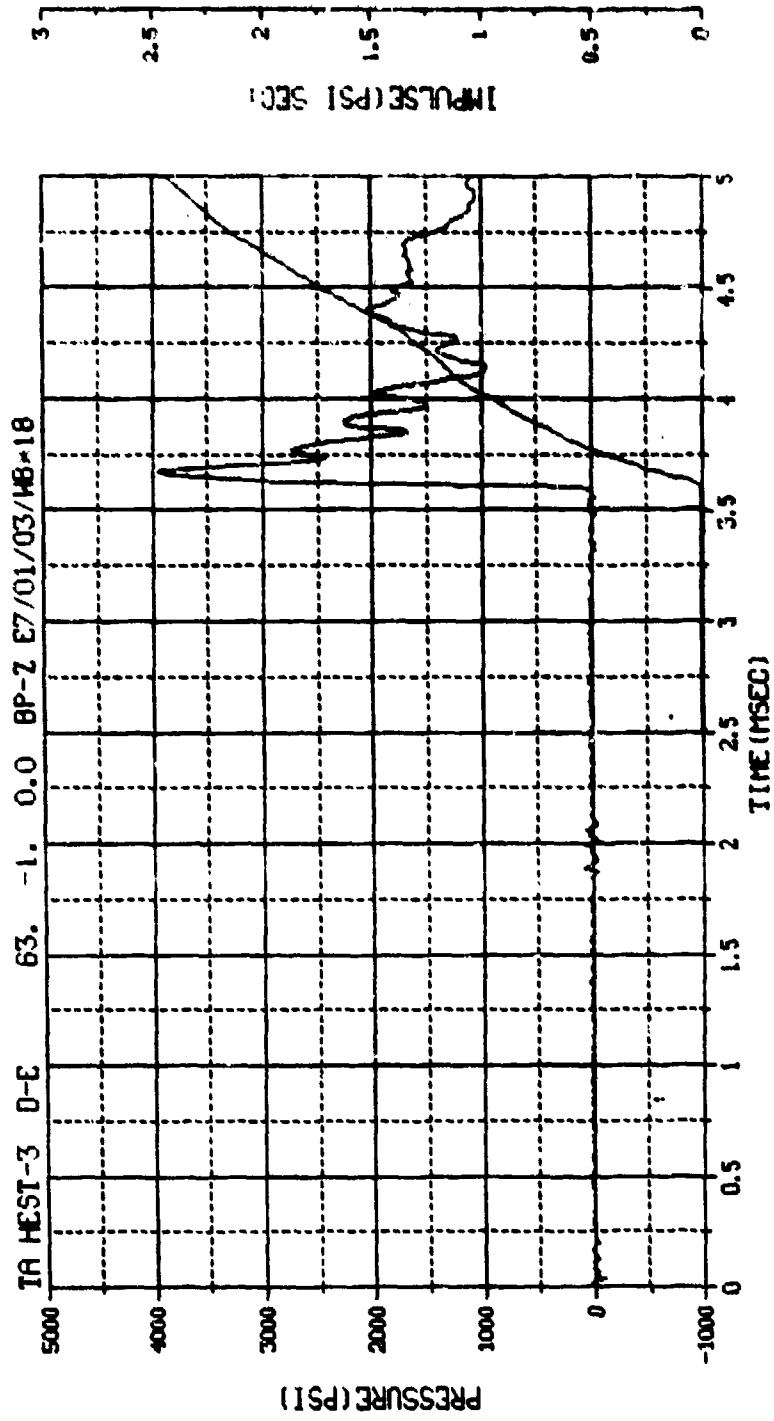
M.N. - 17
 TSKIP-12.650
 S.R. -100.00 KHZ

E.U. -0.000,4094.000
 DIGITS-0.000,760.750
 8 50 AM, 2 MAY 78.

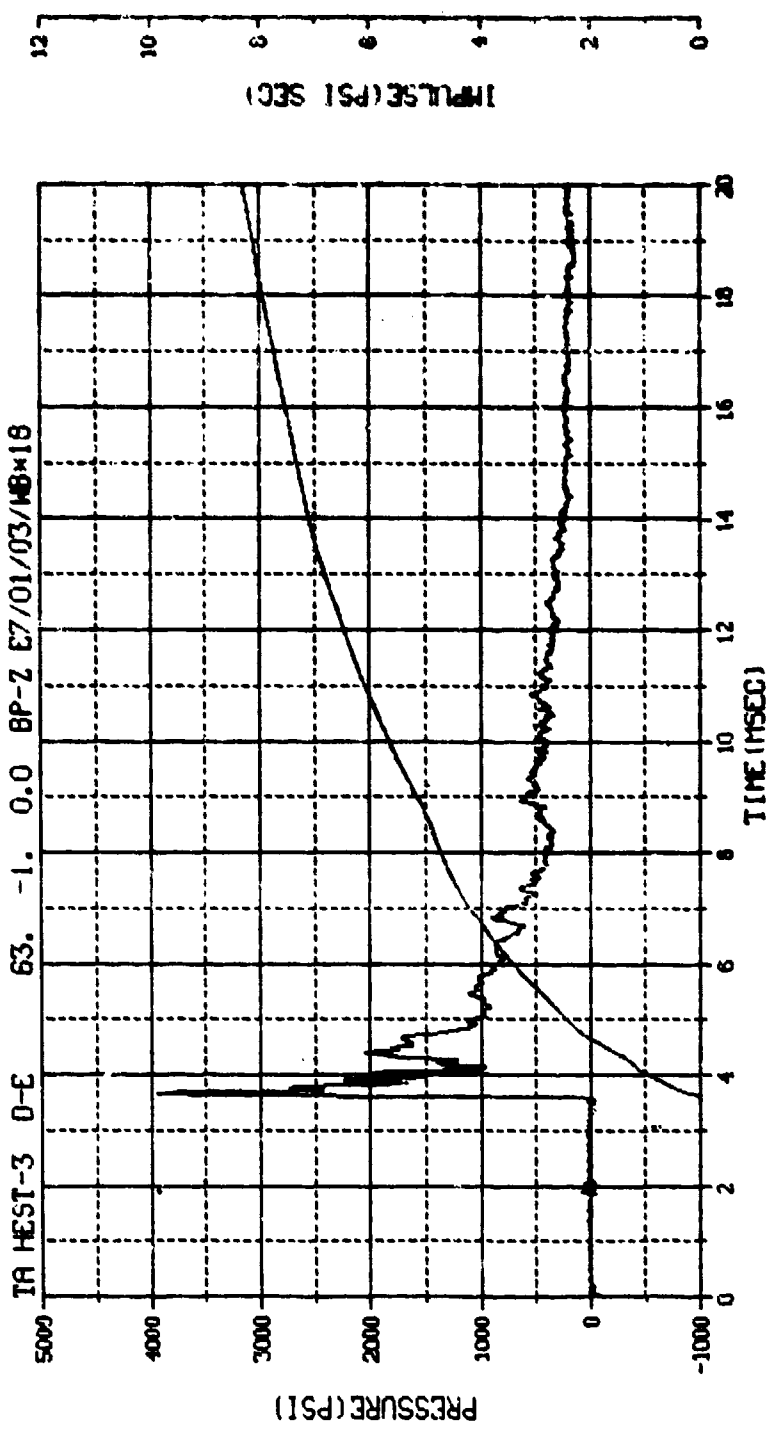
VSN-
 TAPE22
 FILE-48



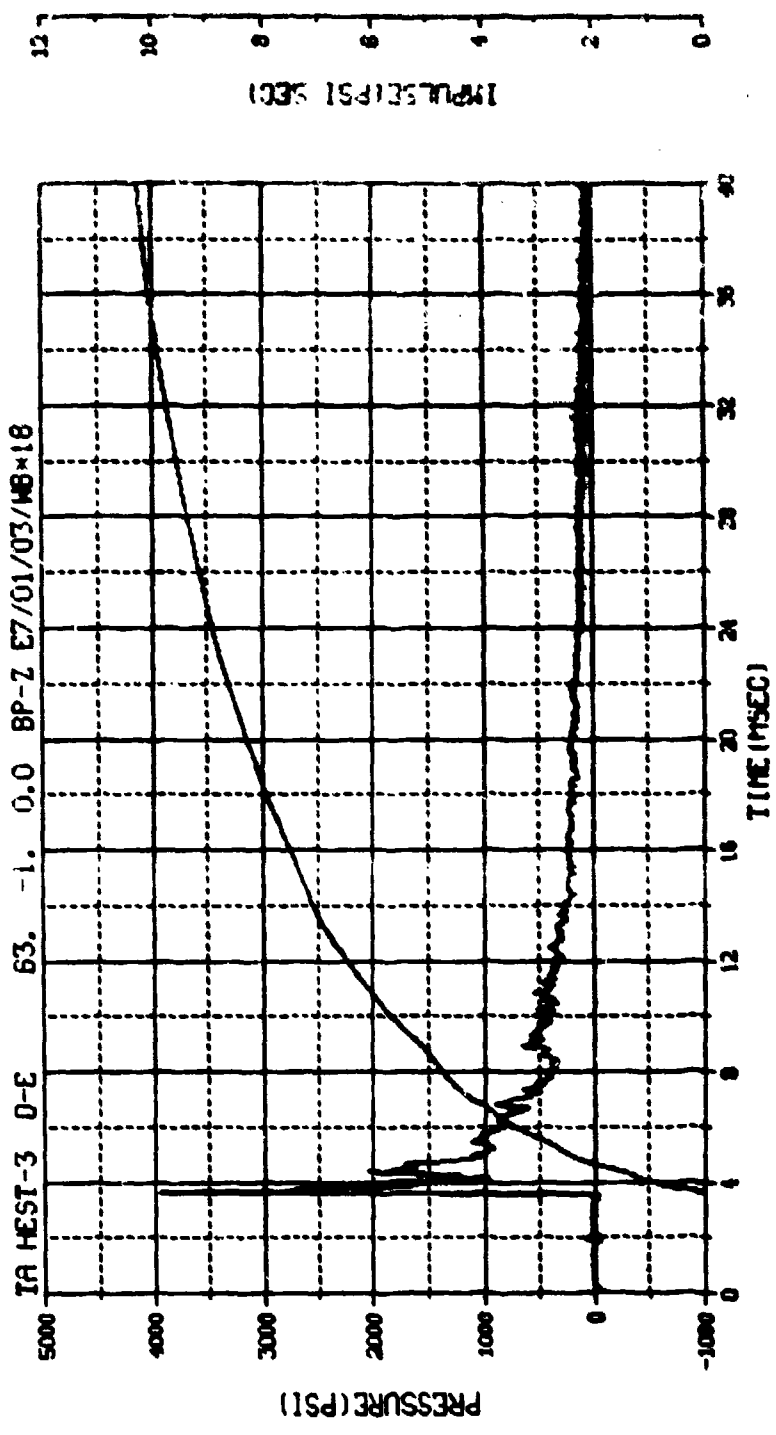
M.N. - 17	E.U. -0.000,4094.000	VSN-
TSKIP-12.650	DIGITS-0.000,750.750	TAPE22
S.R. -100.00 KHZ	8 50 AM, 2 MAY 78.	FILE-48
		1



M.N. - 18	E.U. -0.000,4011.000	VSN-
TSKIP-12.640	DIGITS-0.000,763.000	TAPE22
S.R. -100.00 KHZ	8 50 AM, 2 MAY 78.	FILE-6



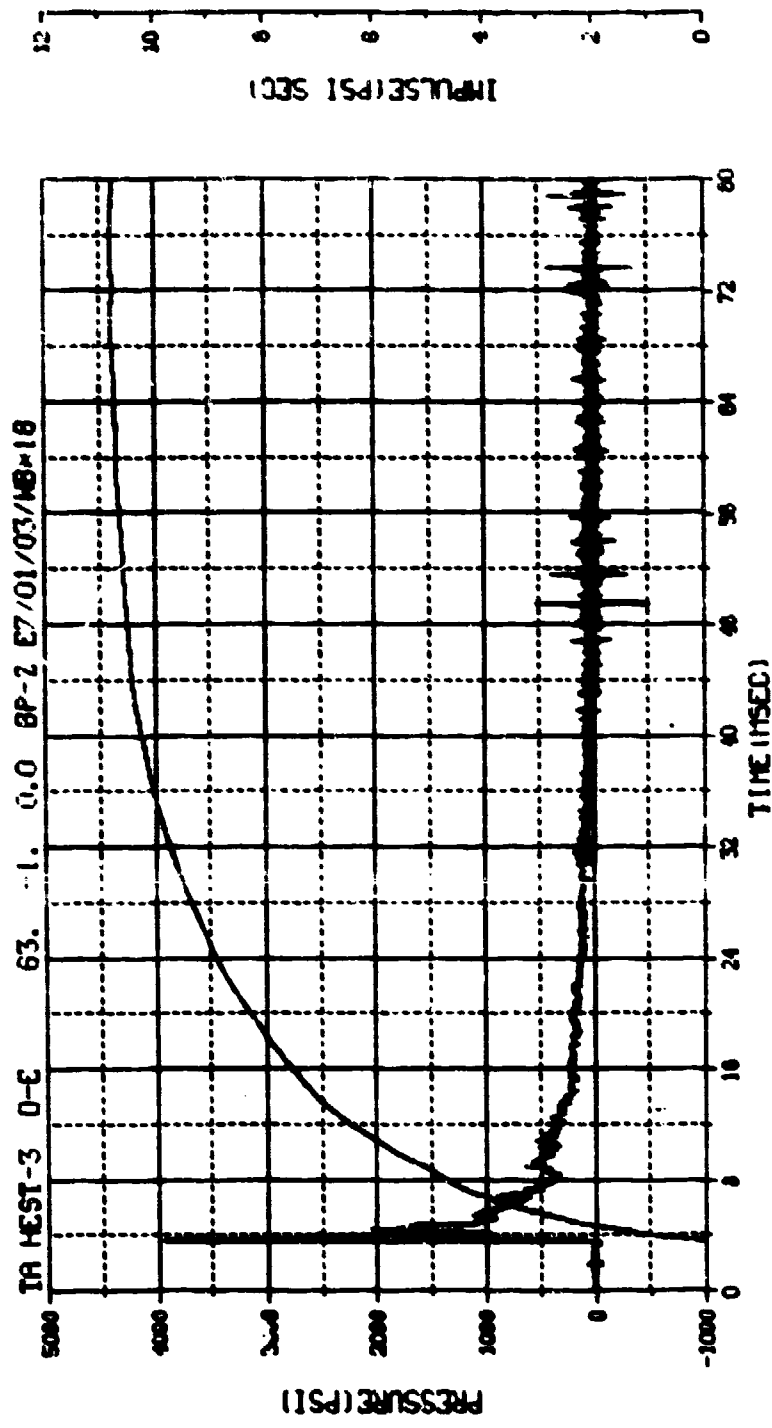
M.N. - 18 E.U. -0.000,4011.000 VSN-
 TSKIP-12.640 DIGITS-0.000,763.000 TAPE.22
 S.R. -100.00 KHZ 8 50 AM, 2 MAY 78. FILE-6



M.N. - 18
 TSKIP-12.640
 S.R. -100.00 KHZ

E.U. -0.000,4011.000
 DIGITS-0.000,763.000
 8 50 AM, 2 MAY 78.

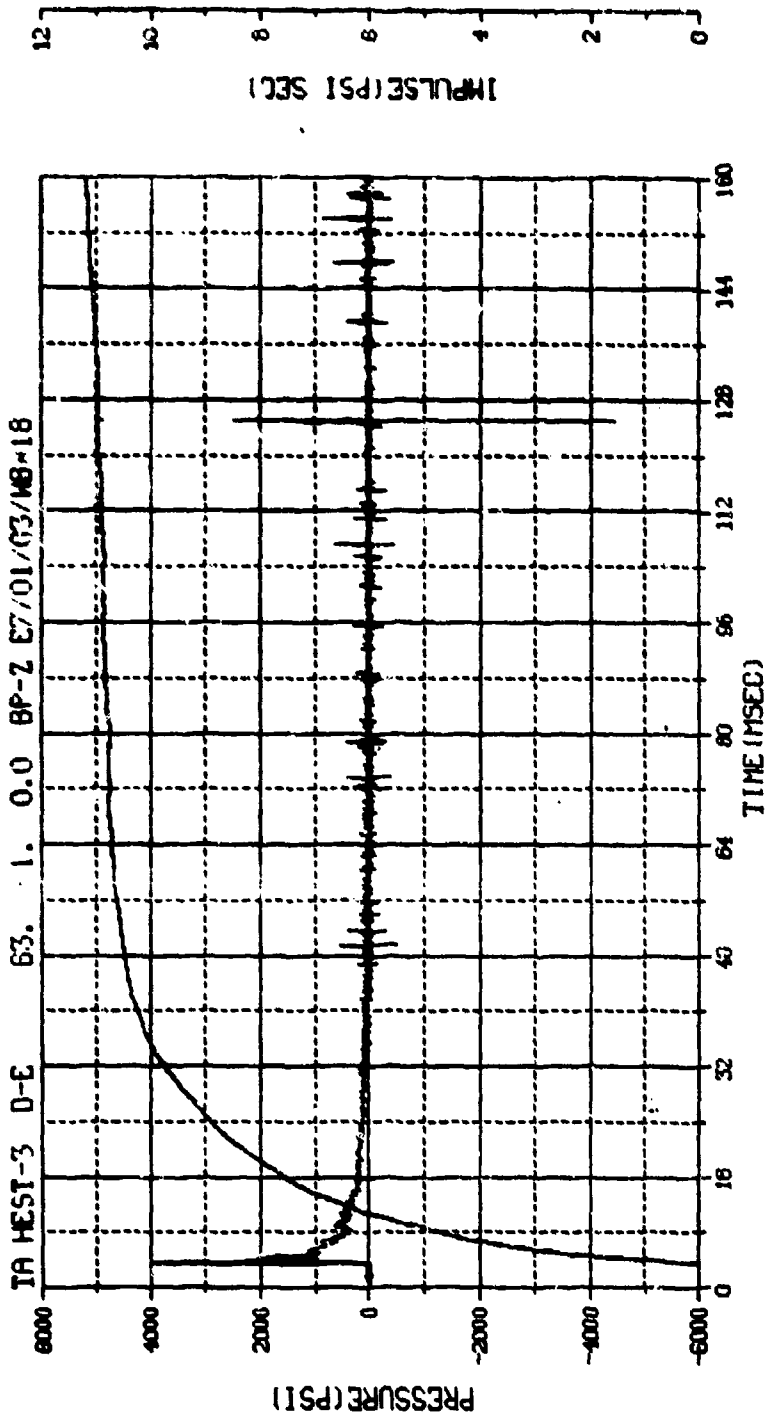
VSM-
 TRFE22
 FILE-6



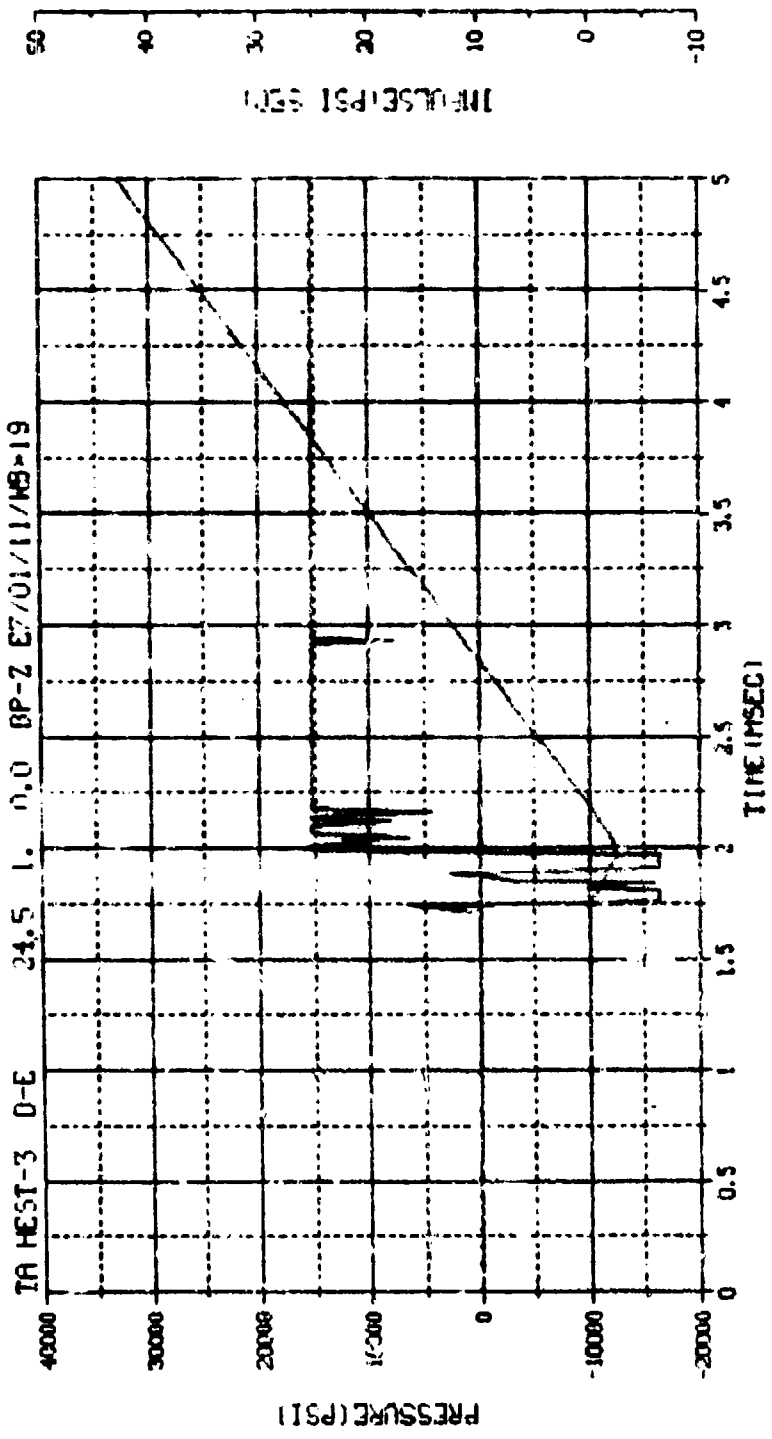
M.N. - 18
 TSKIP-12.640
 S.R. -100.00 KHZ

E.U. -0.000,4011.000
 DIGIT-0.000,763.000
 8 5U AM, 2 MAY 78.

VSN-
 TAPE22
 FILE-6

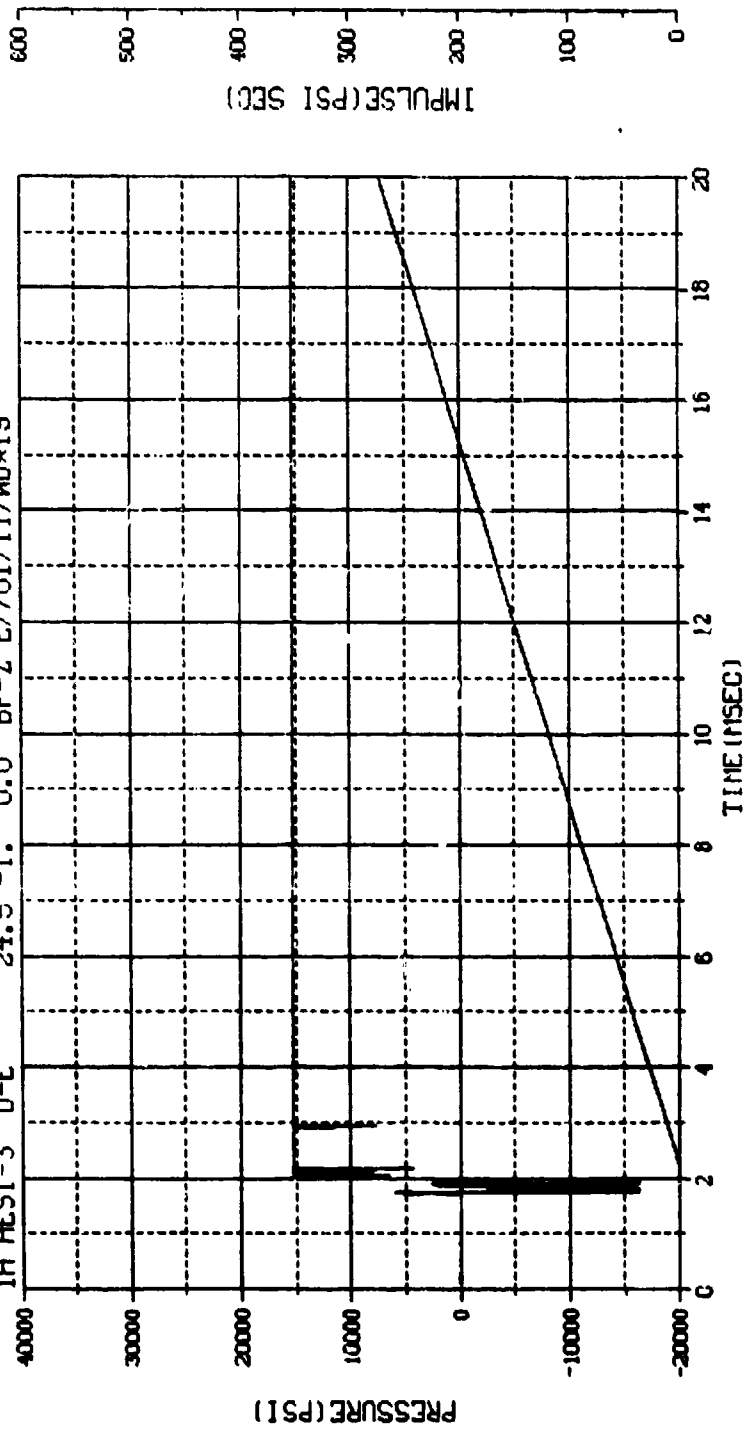


M.N. - 18
 E.U. -0.000,4011.000
 TSkip-12.640
 DIGITS-0.000,763.000
 S.R. -100.00 KHZ
 8 50 AM, 2 MAY 78.
 VSN-
 TAPE22
 FILE-6
 1



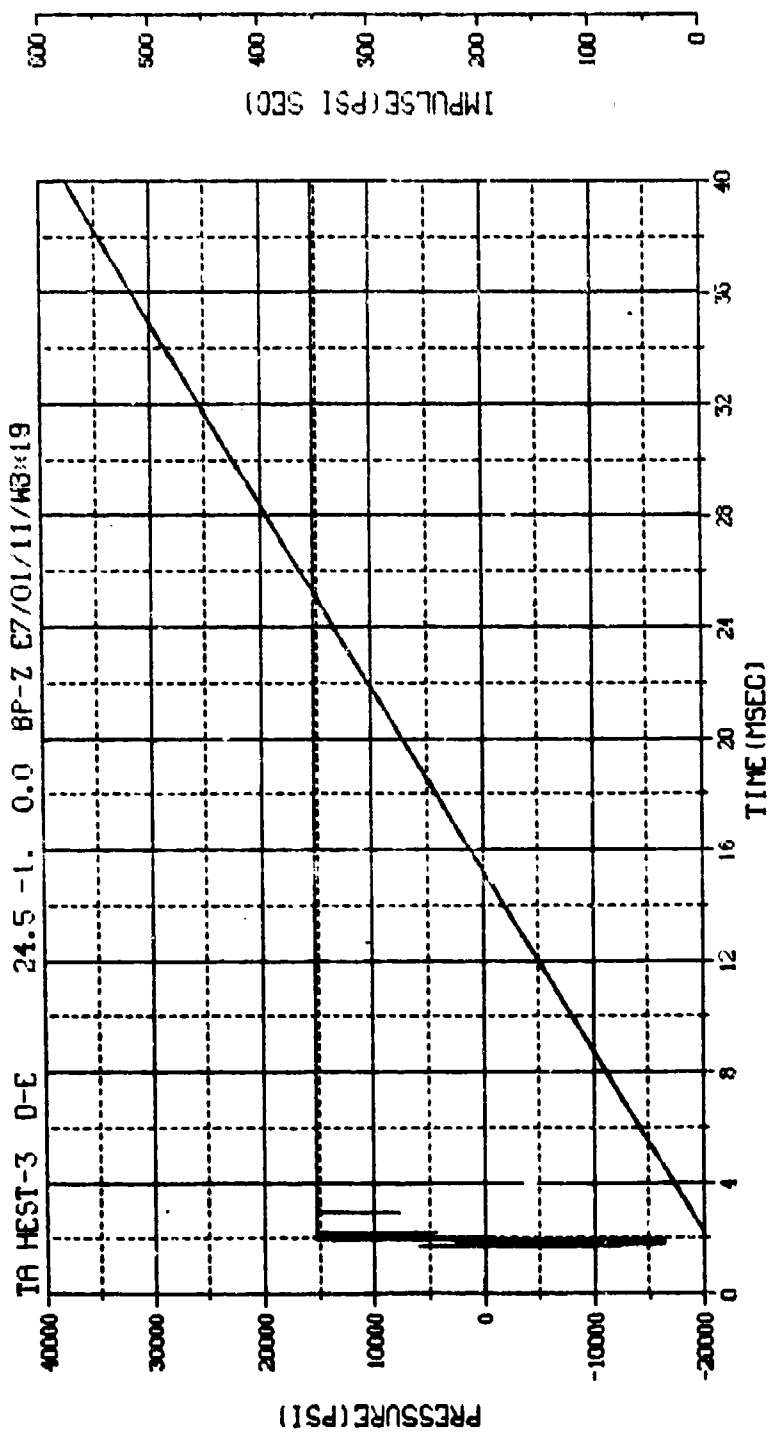
M.N. - 19	E.U. -0.000,5794.000	VSN-
TSK (F=12.640	DIG: S=-0.000,668.375	TAPE22
S.R. -100.00 KHZ	8 50 AM, 2 MAY 78.	FILE-16

TA HEST-3 D-E 24.5 -1. 0.0 BP-Z E7/01/11/WB*19

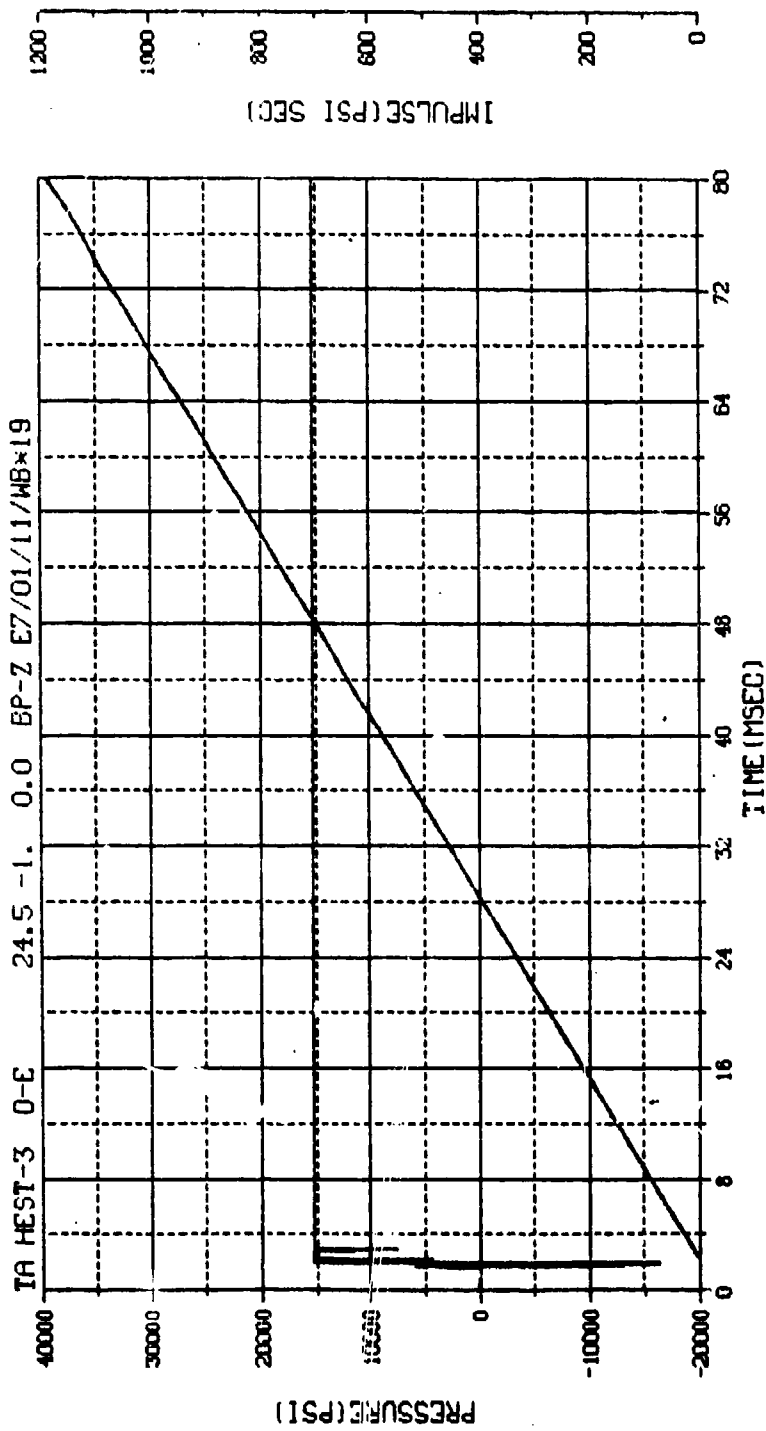


355

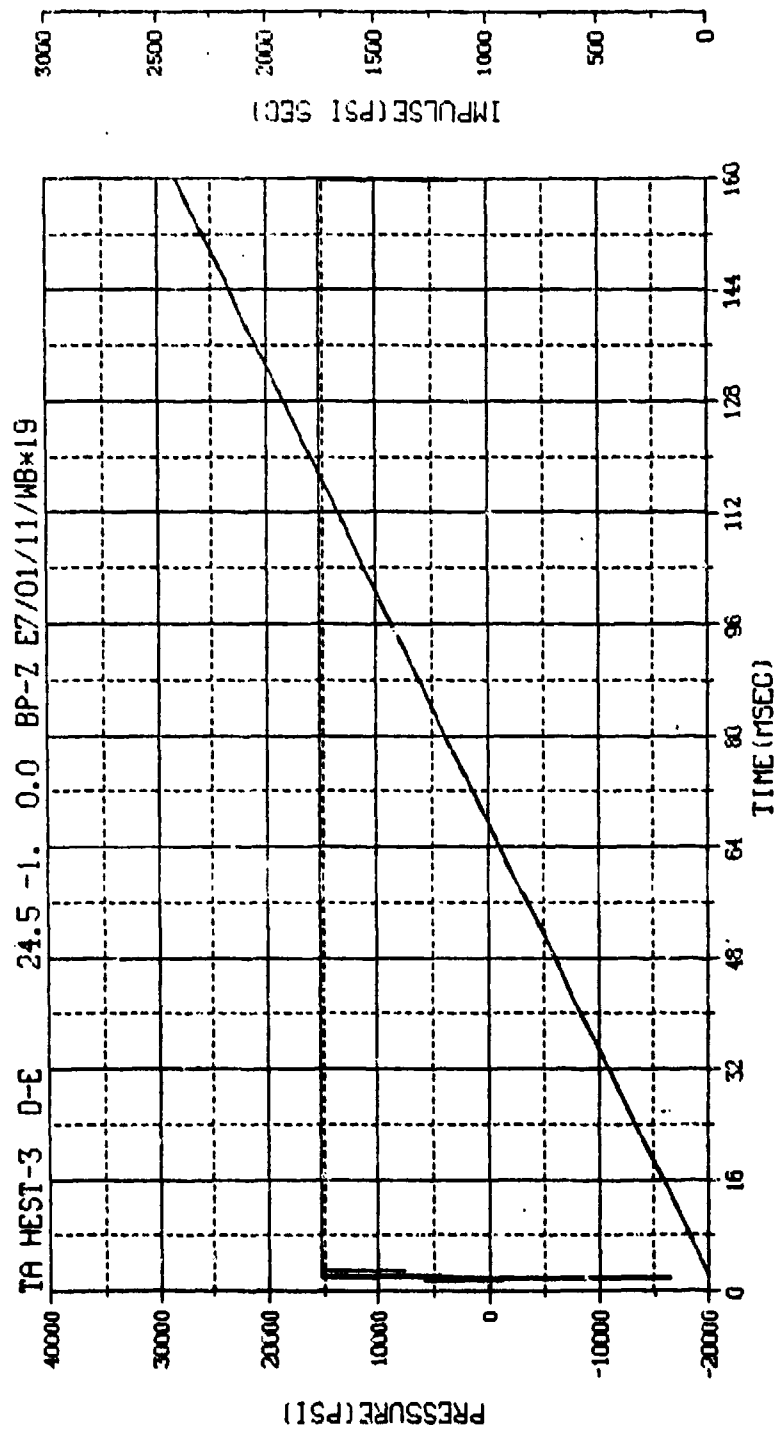
M.N. - 19	E.U. -0.000,5794.000	VSN-
TSK(IP)-12.640	DIGITS-0.000,668.375	TAPE22
S.R. -100.00 KHZ	8 50 AM, 2 MAY 78.	FILE-16



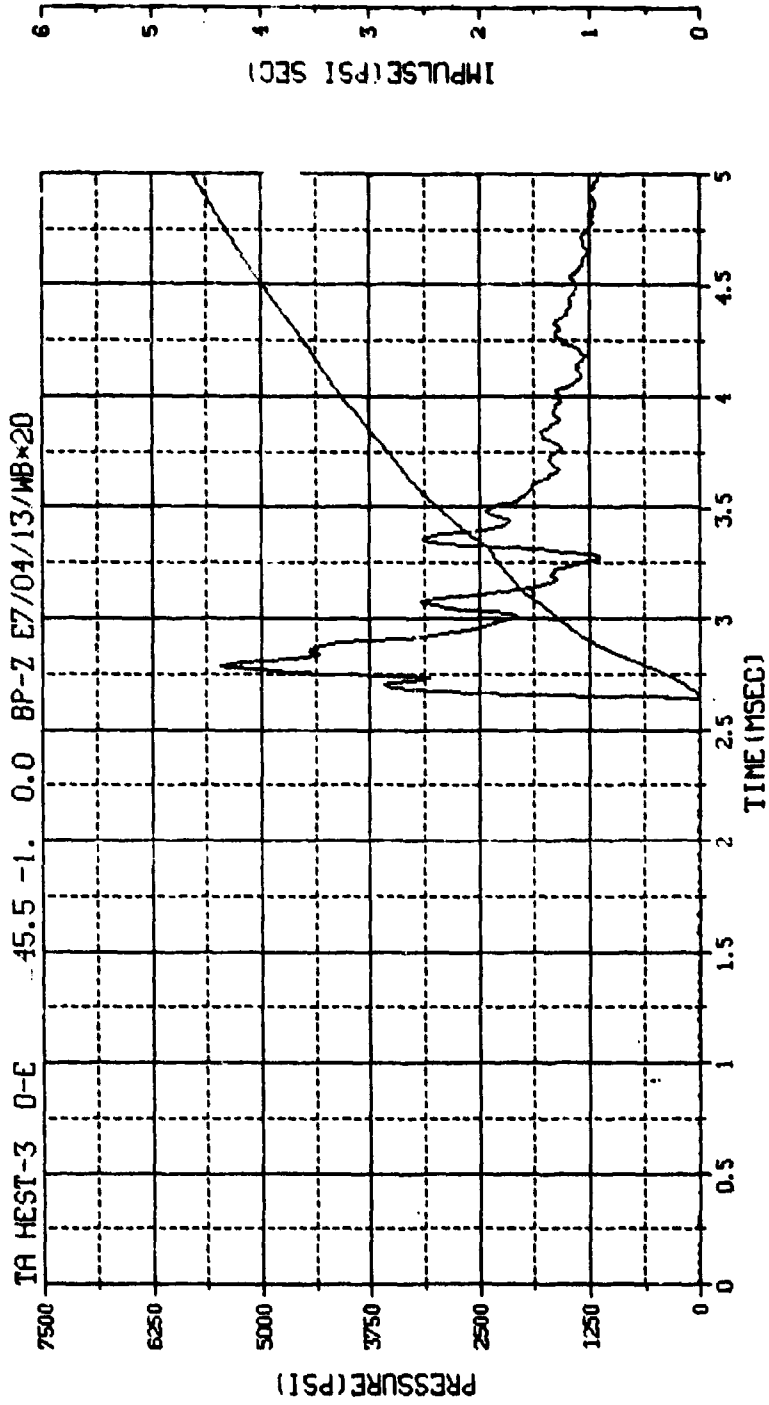
M.N. = 19 E.U. = 0.000,5794.000 VSN=
 TSKIP=12.640 DIGITS=0.000,668.375 TAPE22
 S.R. = 100.00 KHZ 8 50 AM, 2 MAY 78. FILE=16



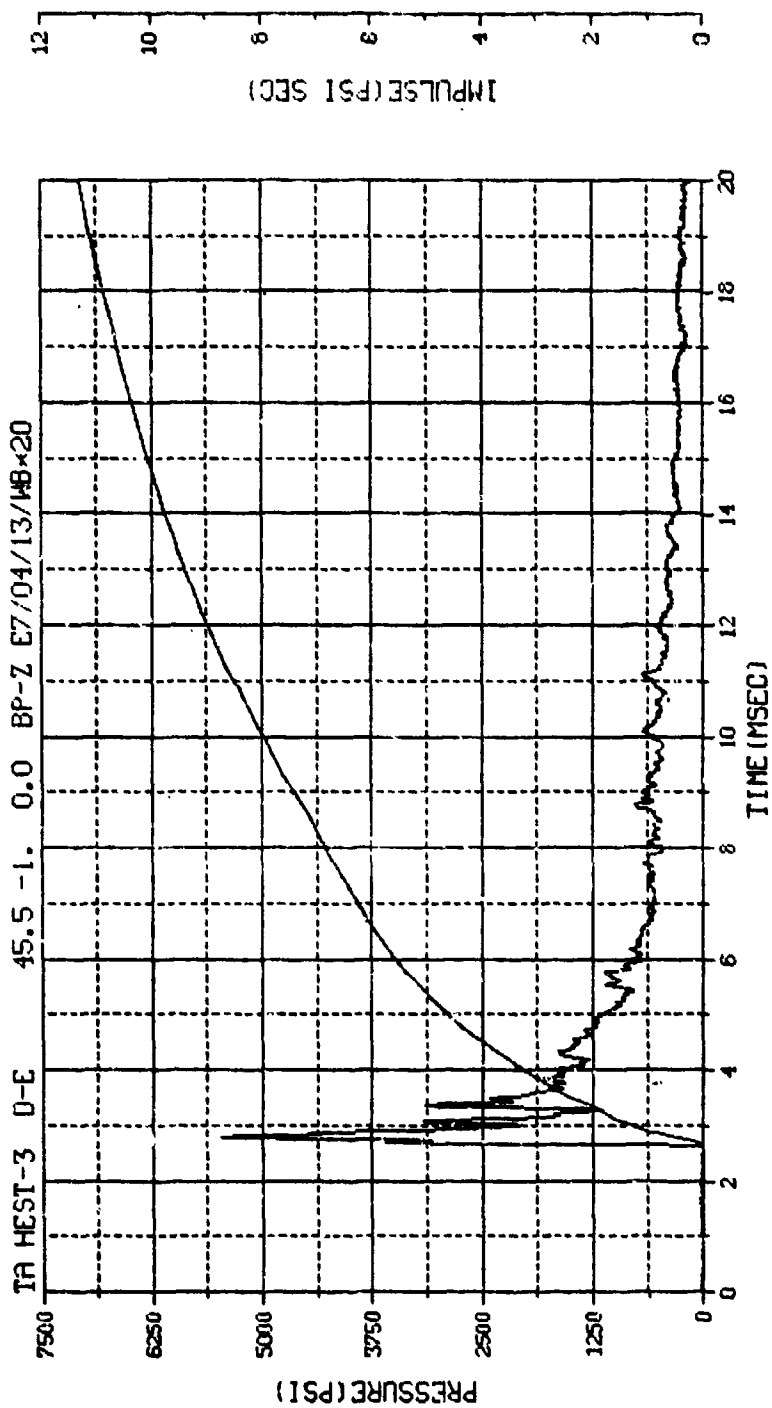
M.N. = 19 E.U. = -0.000, 5794.000 VSN=
 TSKIP = 12.640 DIGITS = 0.000, 668.375 TAPE 22
 S.R. = 100.00 KHZ 8 50 AM, 2 MAY 78. FILE = 16 1



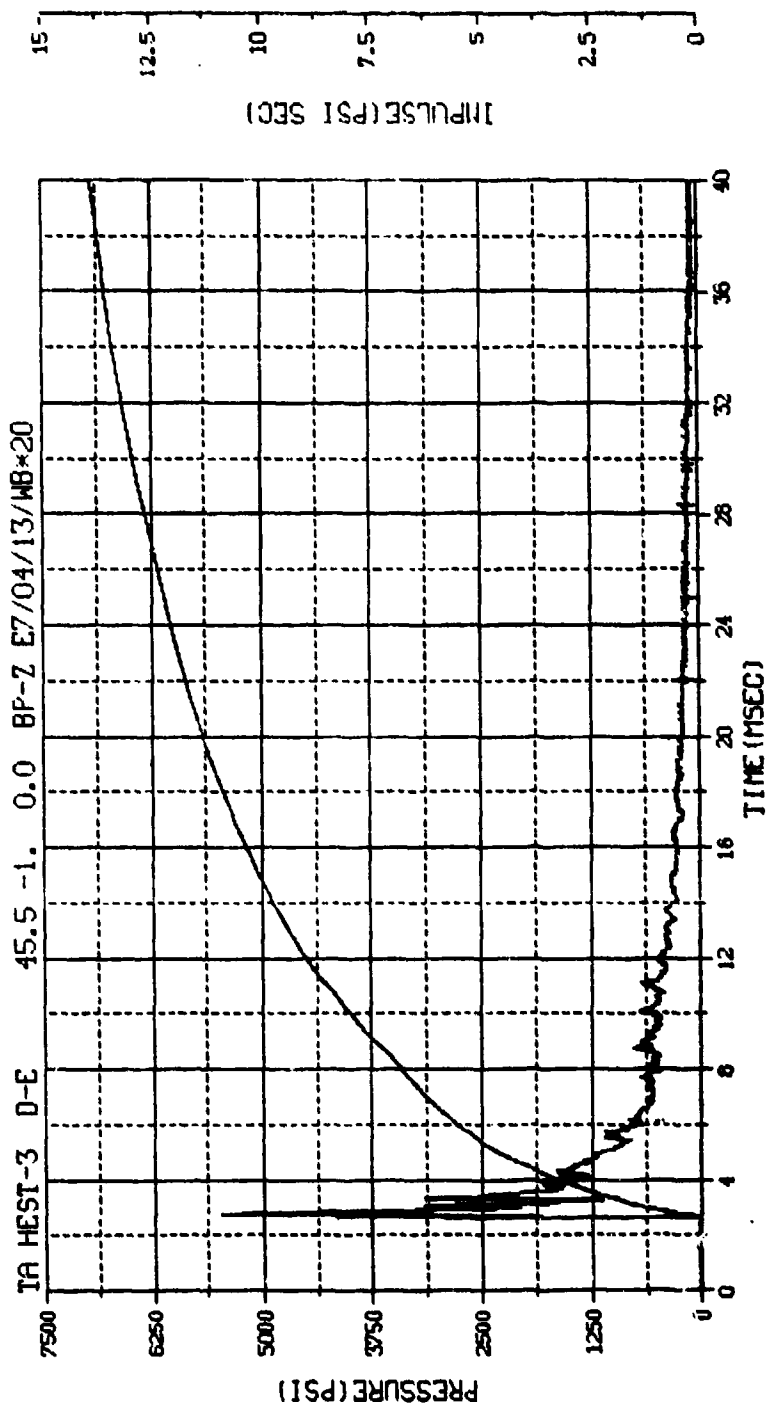
M.N. - 19	E.U. -0.000,5794.000	YSN-
TSKIP-12.640	DIGITS-0.000,668.375	TAPE22
S.R. -100.00 KHZ	8 50 AM, 2 MAY 78.	FILE-16
		1



M.N. - 20	E.U. -0.000, 4175.000	VSN- ED23
TSKIP-12.650	DIGITS-0.000, 614.500	TAPE22
S.R. -100.00 KHZ	11 36 AM, 2 MAY 78.	FILE-50



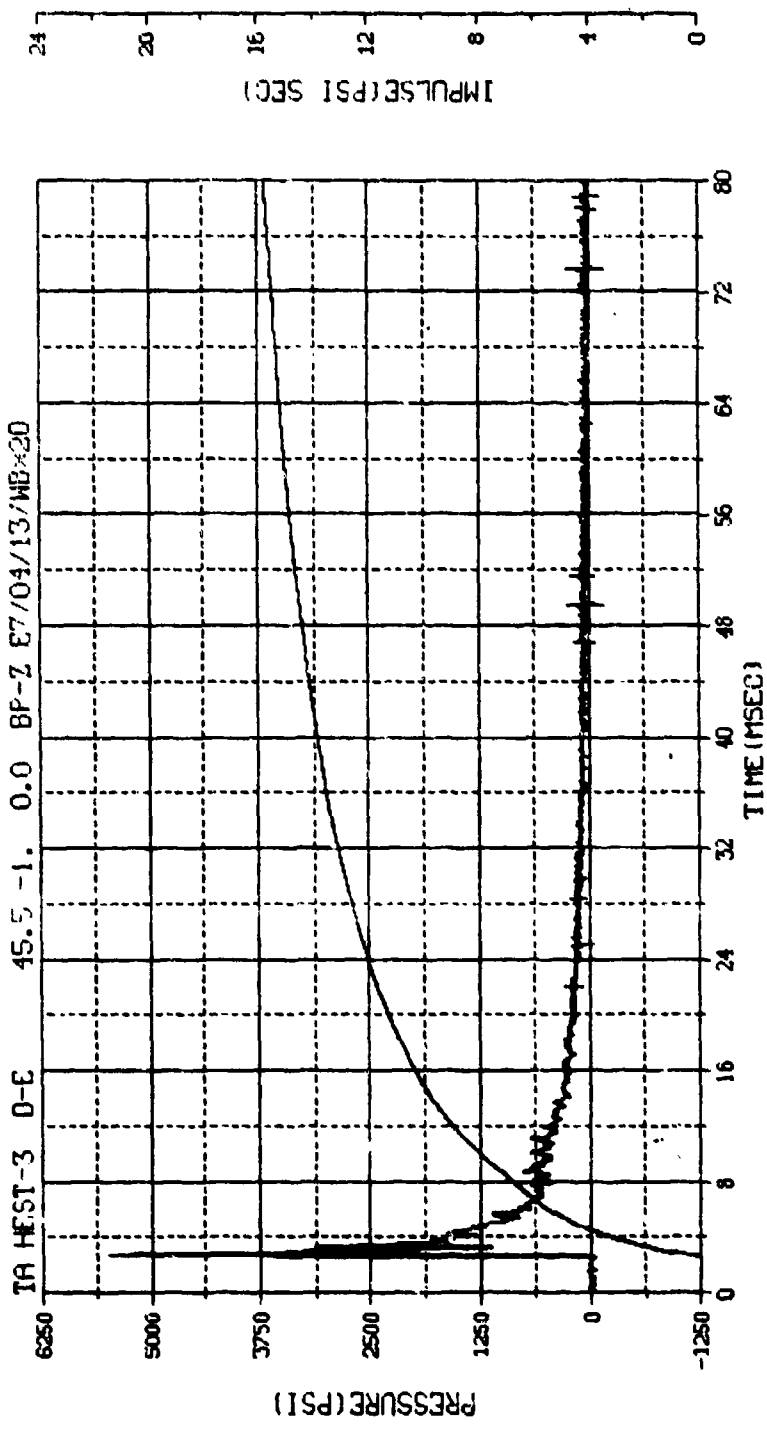
M.N. = 20 E.U. = 0.000, 4175.000 VSN= ED23
 TSKIP=12.650 DIGITS=0.000, 614.500 TAPE22
 S.R. =100.00 KHZ 11 36 AM, 2 MAY 78. FILE=50



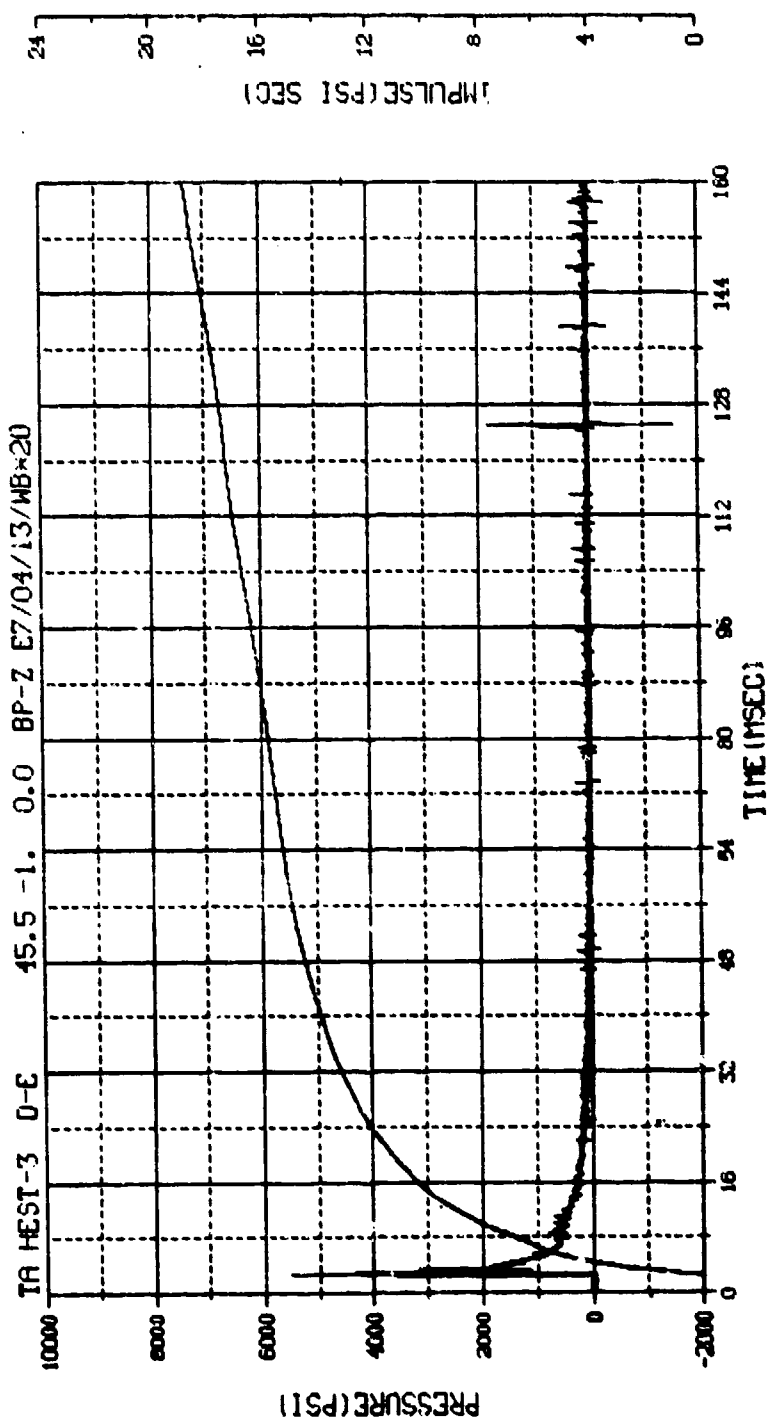
M.N. = 20
 TSKIP=12.650
 S.R. =100.00 KHZ

E.U. =-0.000,4175.000
 DIGITS=0.000,614.500
 8 50 AM, 2 MAY 78.

VSN=
 TAPE22
 FILE-50



M.N. - 20 E.U. -0.000,4175.000 VSN-
 TSKIP-12.650 DIGITS-0.000,614.500 TAPE22
 S.R. -100.00 KHZ 8 50 AM, 2 MAY 78. FILE-50



TA HEST-3 0-E 45.5 -1. 0.0 BP-Z E7/04/13/WB*20

M.N. - 20 E.U. -0.000, 4175.000 VSN-
 TSK(IP-12.650 DIGITS-0.000, 614.500 TAPE22
 S.R. -100.00 KHZ 8 50 AM, 2 MAY 78. FILE-50

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