KING COUNTY INTERNATIONAL AIRPORT

STORM DRAINAGE STUDY

JULY 1995

APPENDICES VOLUME II

Appendix B to G

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APPENDICES

B Existing 25 Year Conveyance

C Existing 100 Year Backwater Analysis

D Proposed 25 Year Conveyance

E Proposed 100 Year Backwater Analysis

F 6 Month Water Quality Analysis (Oil/Water Separation)

G Schematic Design Plan Sheets 1 to 8

NARRATIVE

Appenices B through G contain the computer generated results of the 25 year conveyance and the 100 year backwater analysis (XPSWMM), the 6 month water quality flows (Waterworks) and the schematic plan sheets. The numbering system used for indentification of the Airport drainage system consists of labeling junctions with an odd number (ie. 415) and the downstream pipes with an even number (ie 414), numericially one less than the upstream junction. All existing junctions within the drainage system are labeled on the schematic plans, leaving a simple method for indentifying existing pipes. All of new drainage features have also been labeled. The XPSWMM results contain abbreviations as listed below:

JUNCTIONS

H - Maximum water surface elevation
SL - Ground surface elevation
CL - Crown elevation of pipe
IL - Invert elevation of pipe

PIPES

US - Maximum upstream water surface elevation
DS - Maximum downstream water surface elevation
Q - Maximum flow in pipe
V - Maximum velocity in pipe

APPENDIX B

Existing 25 Year Conveyance

SW PUMP STATION

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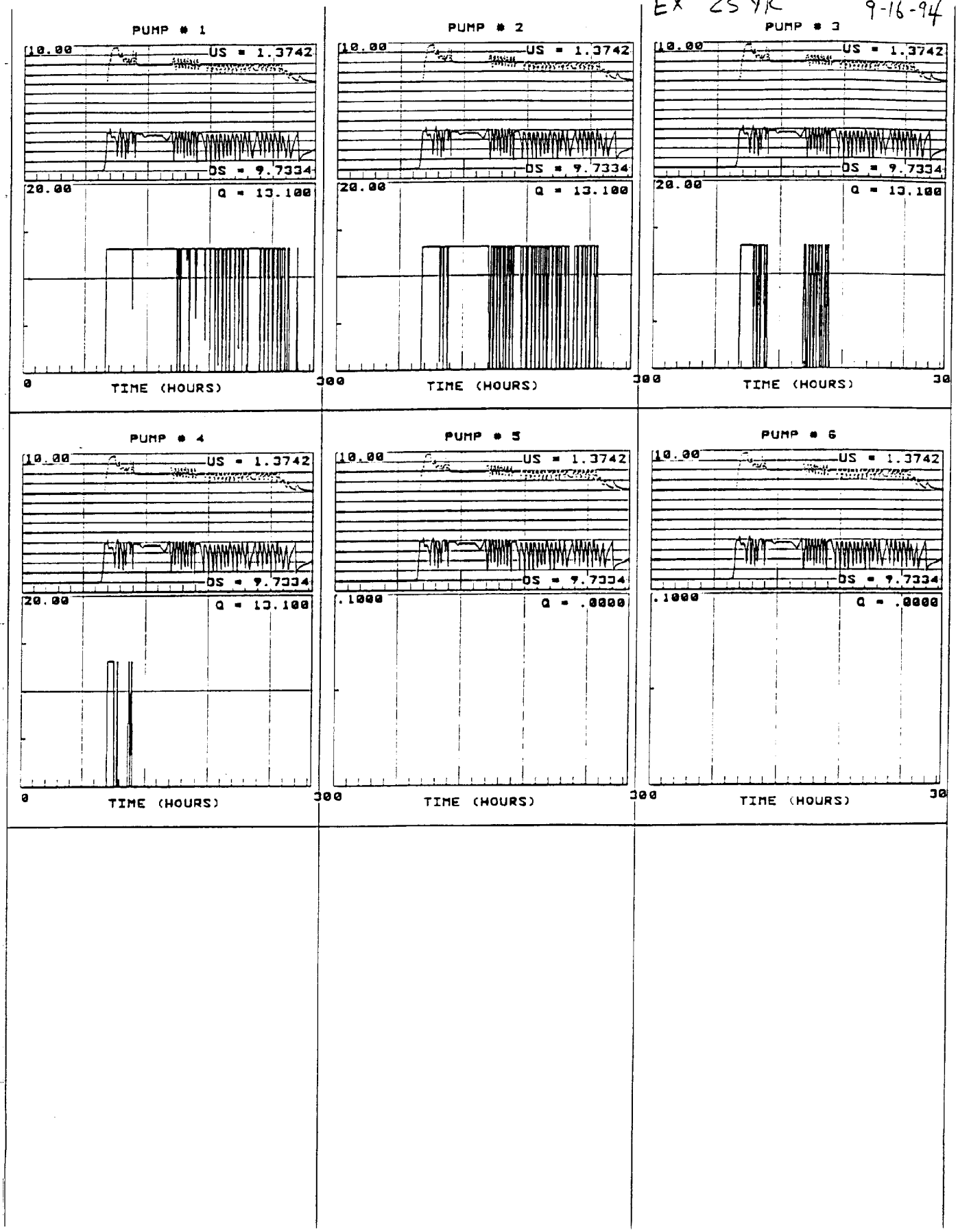

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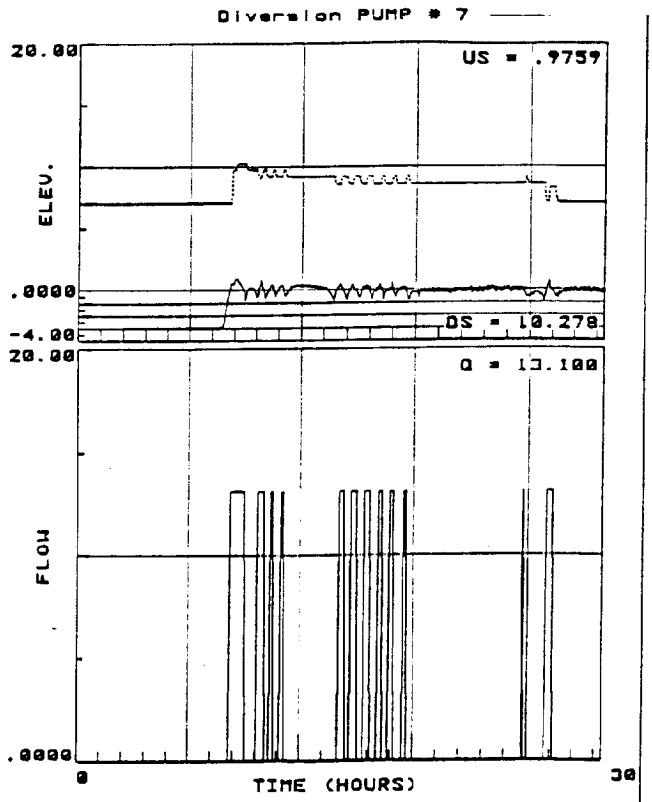
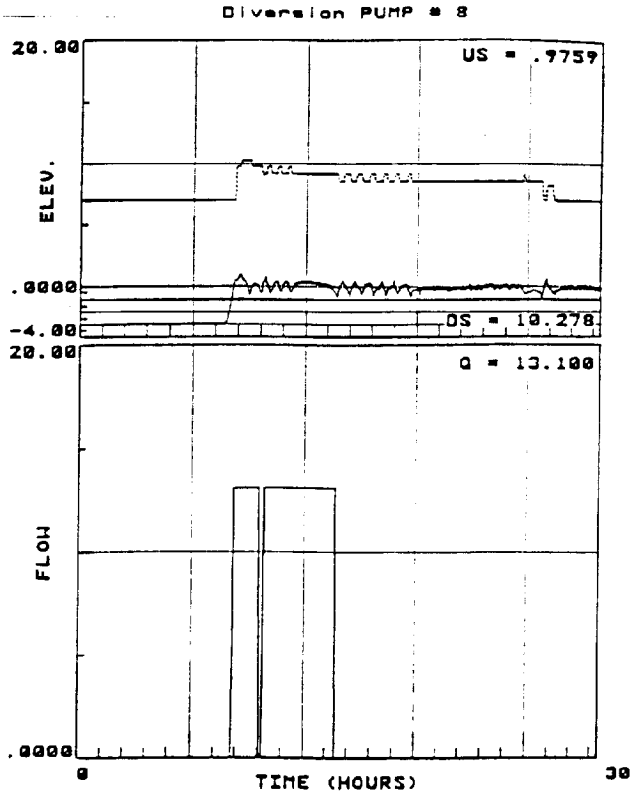
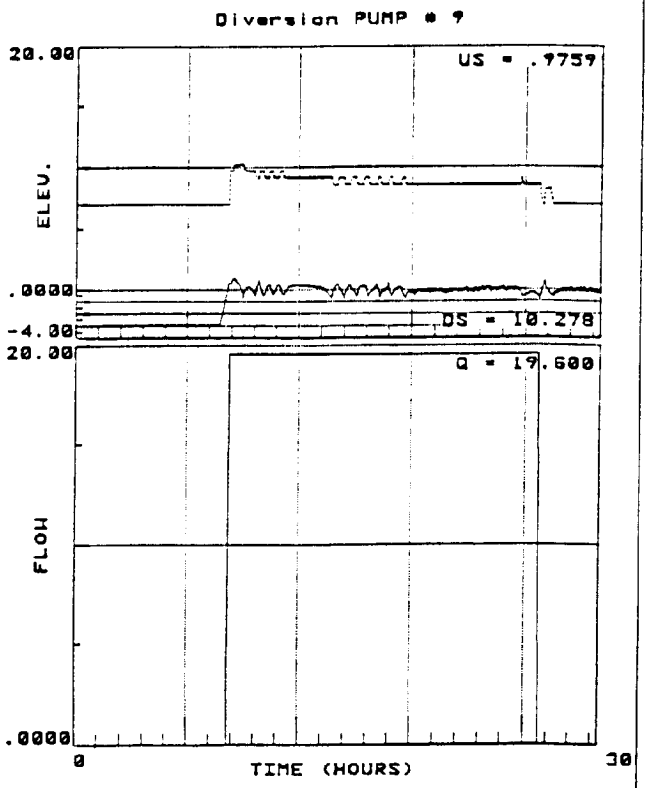
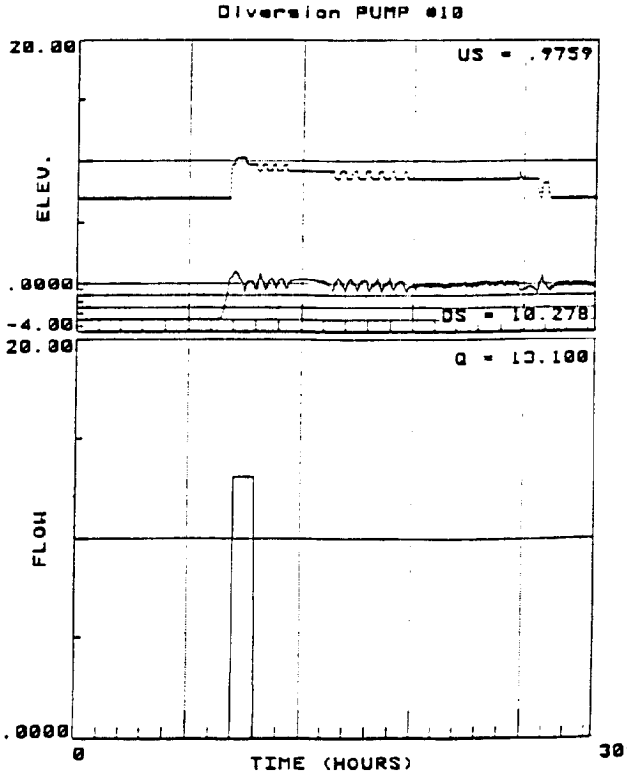
NW PUMP STATION EX 25YR 9-16-94









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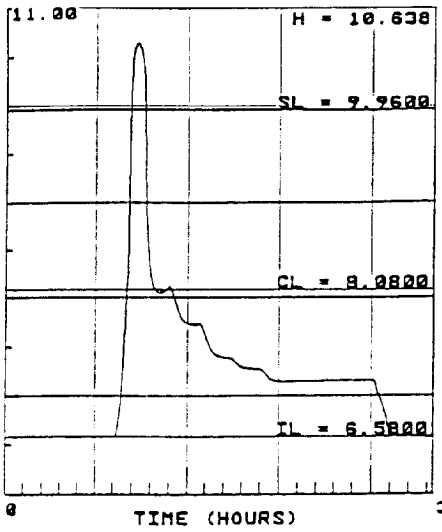

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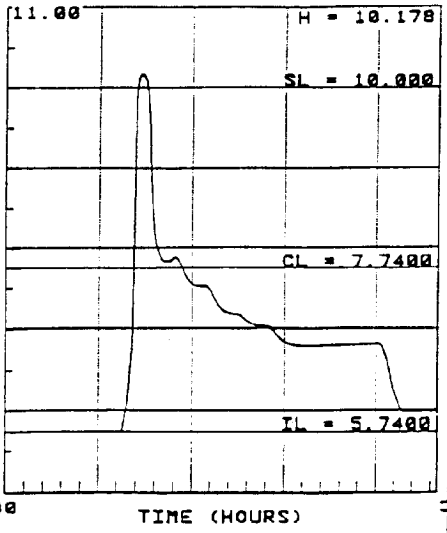

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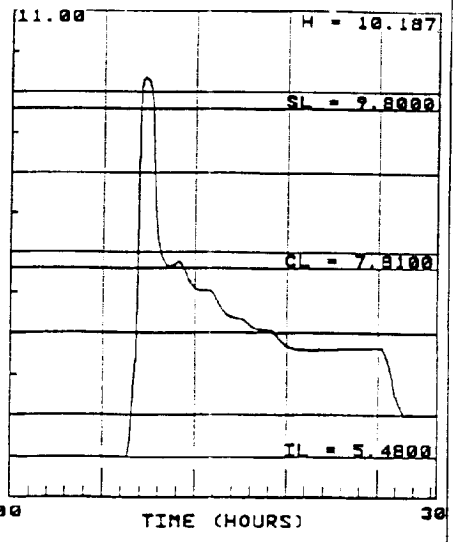

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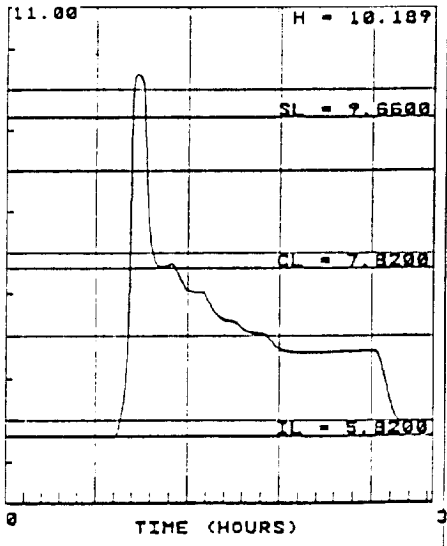

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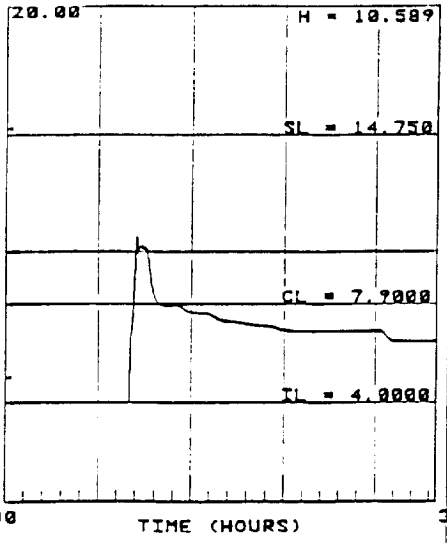

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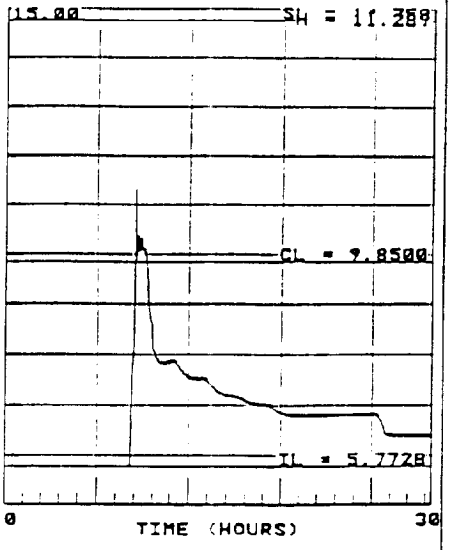

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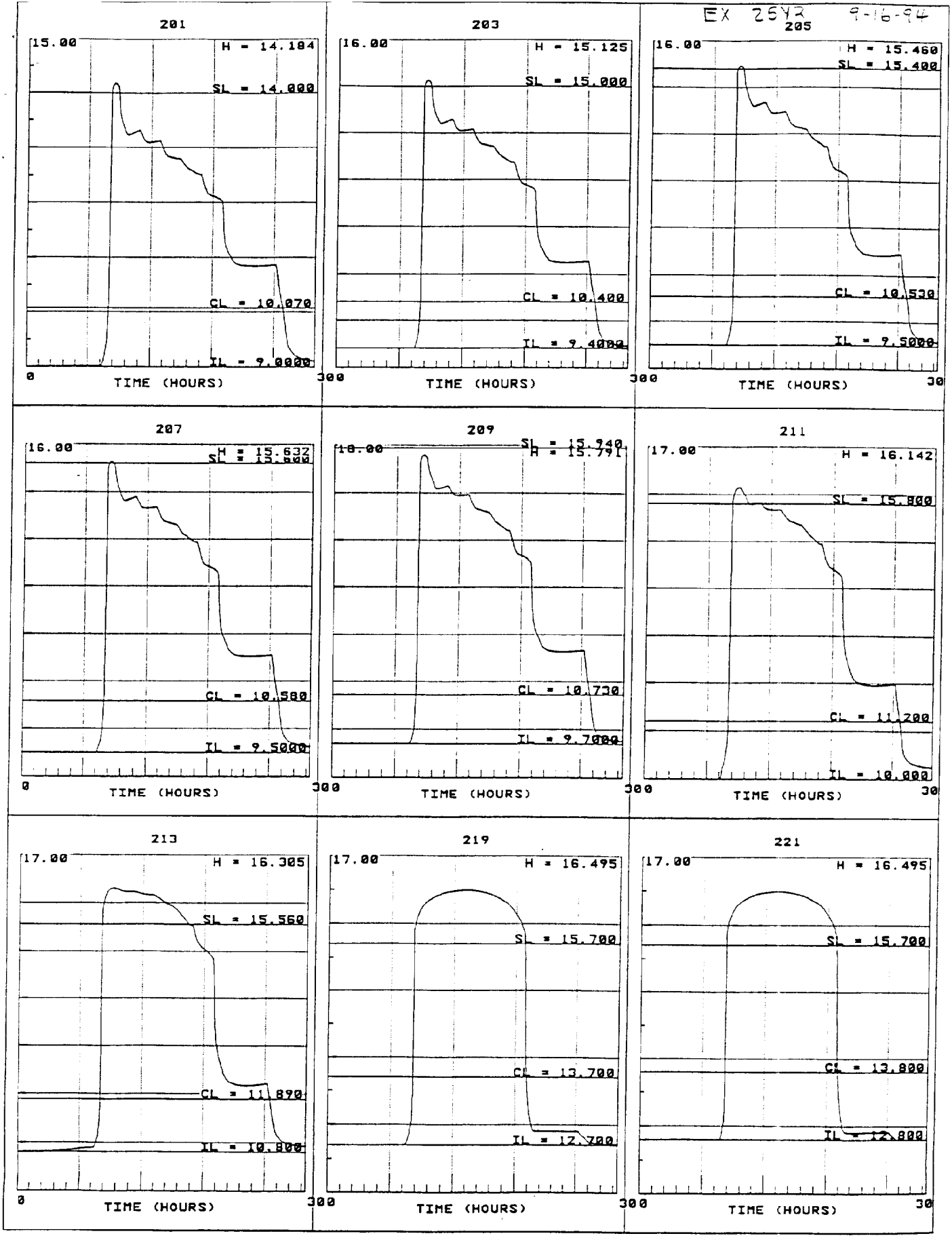

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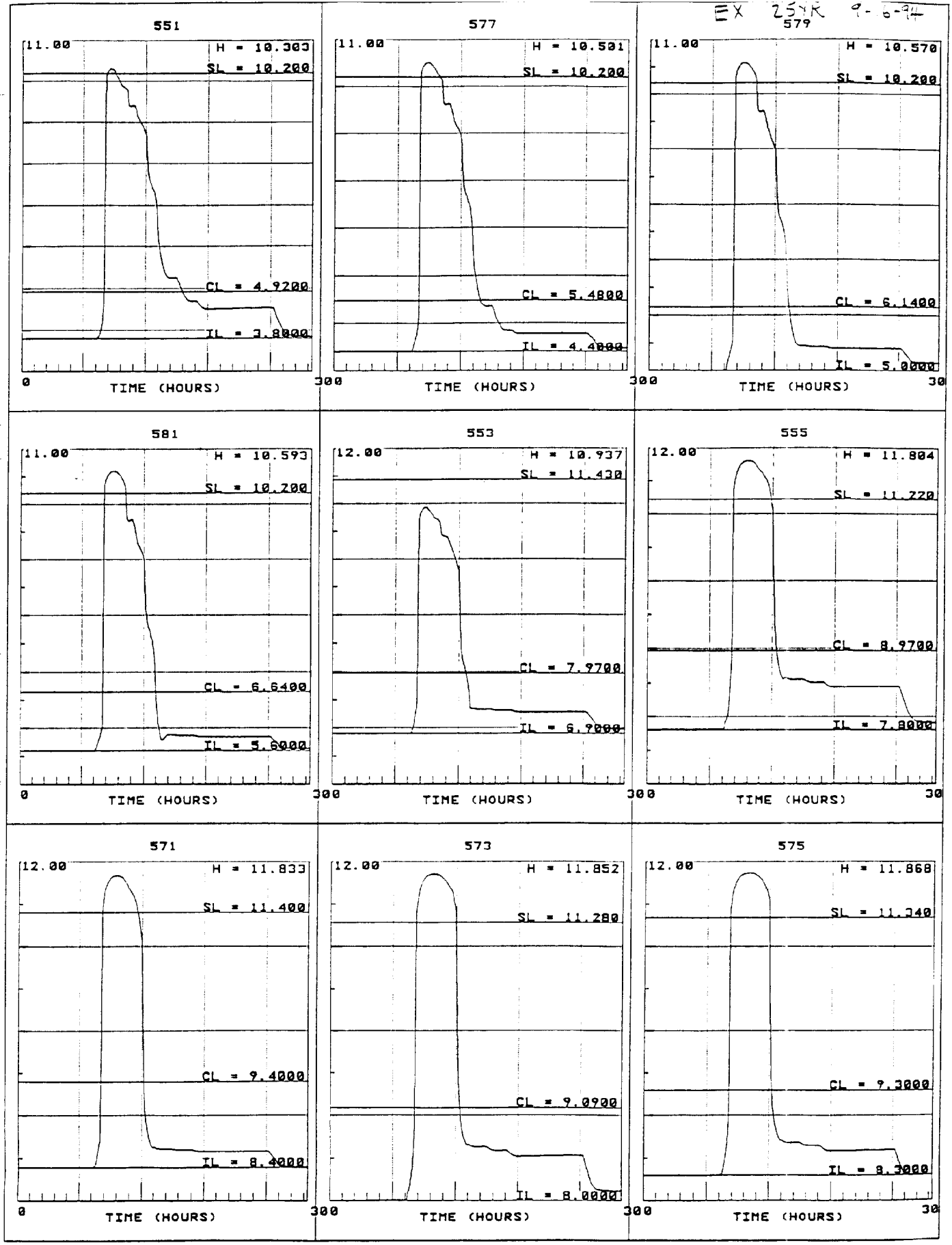

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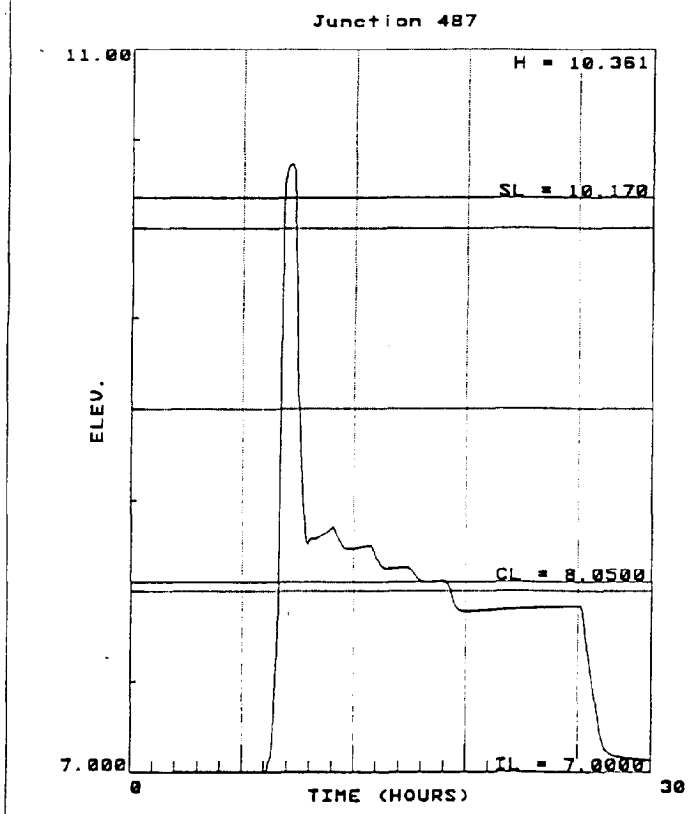

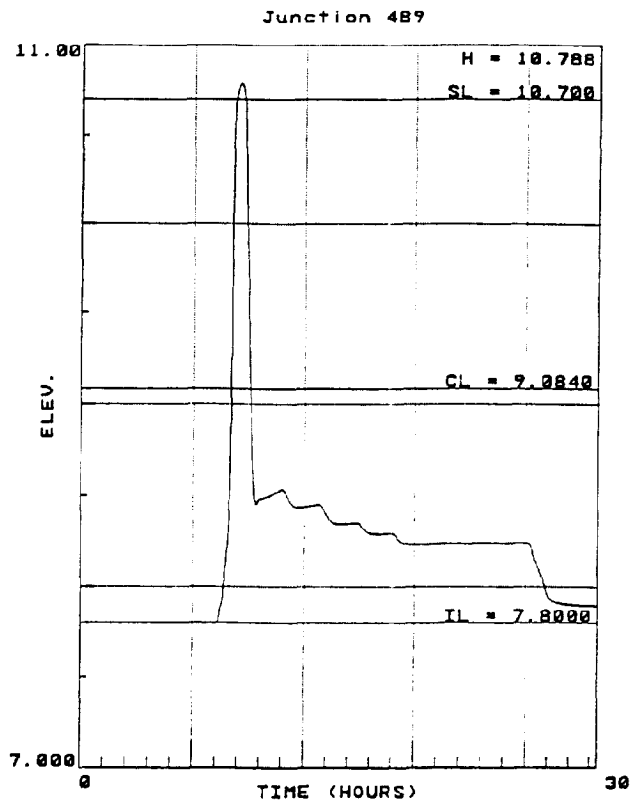

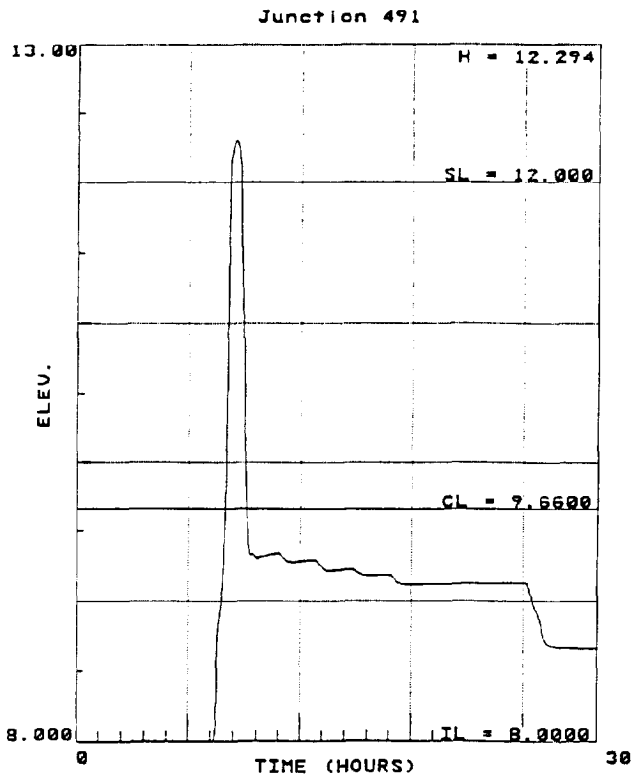

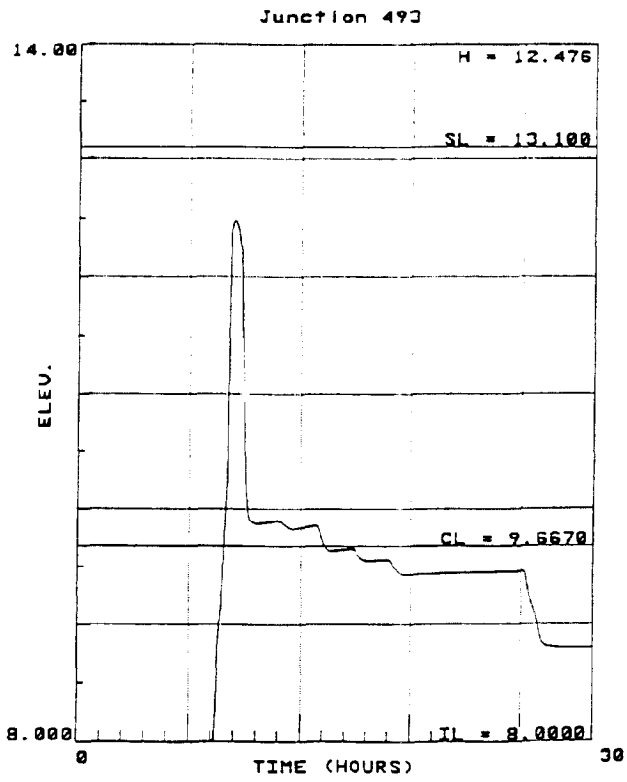

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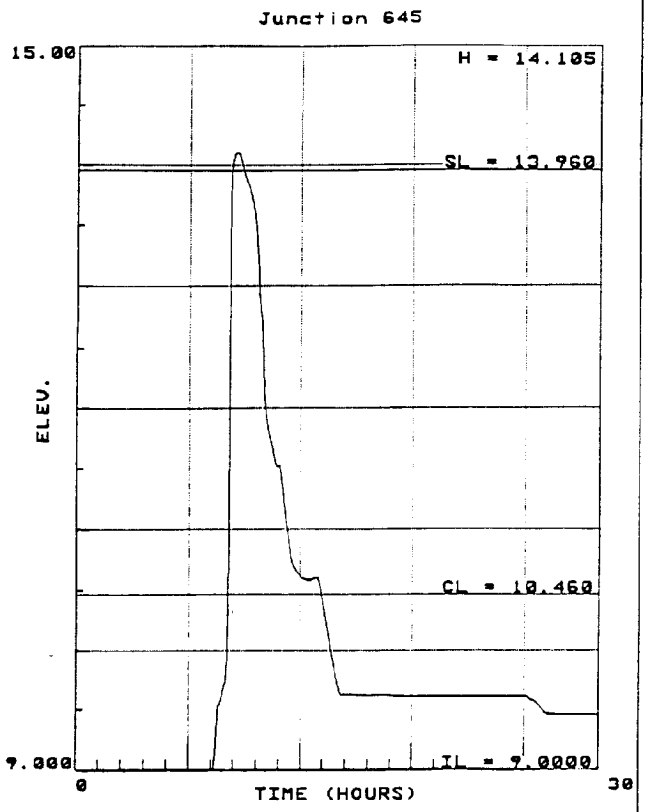

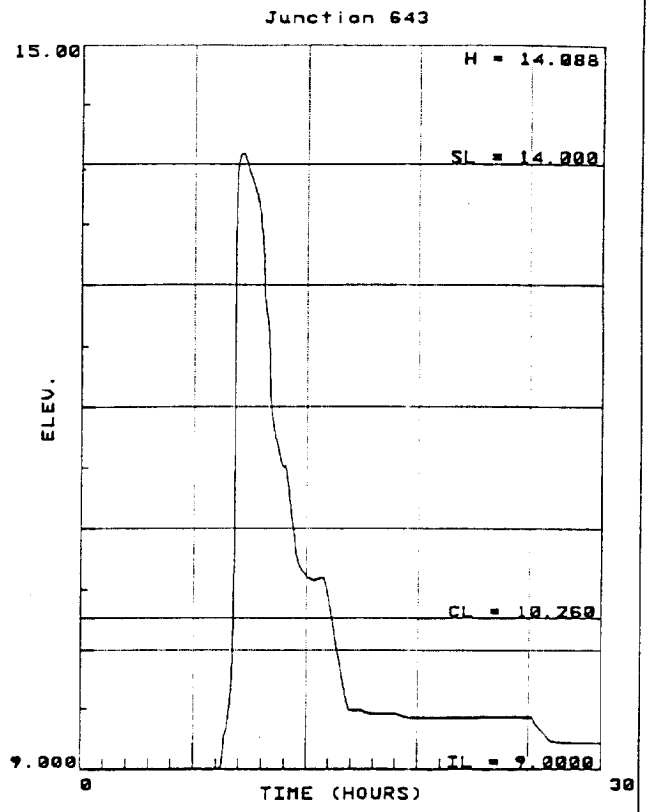

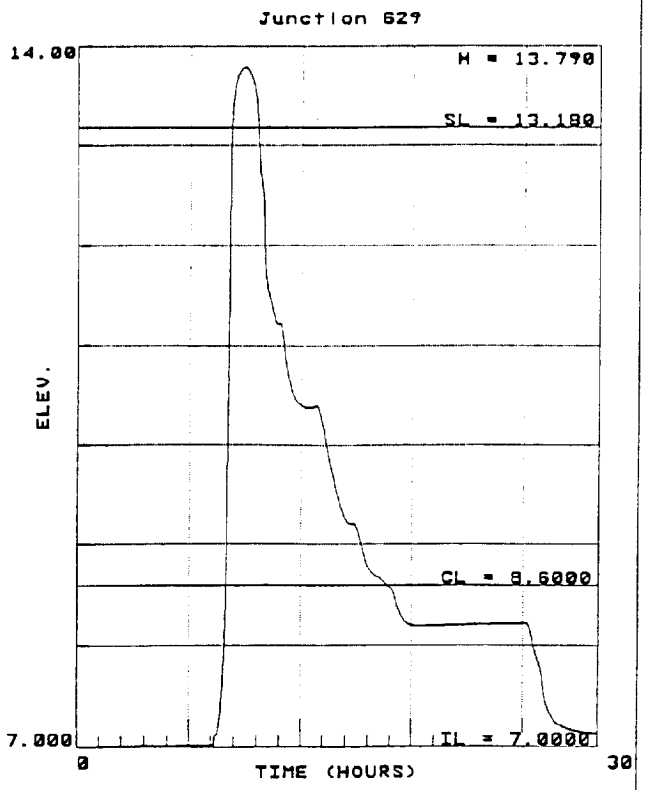

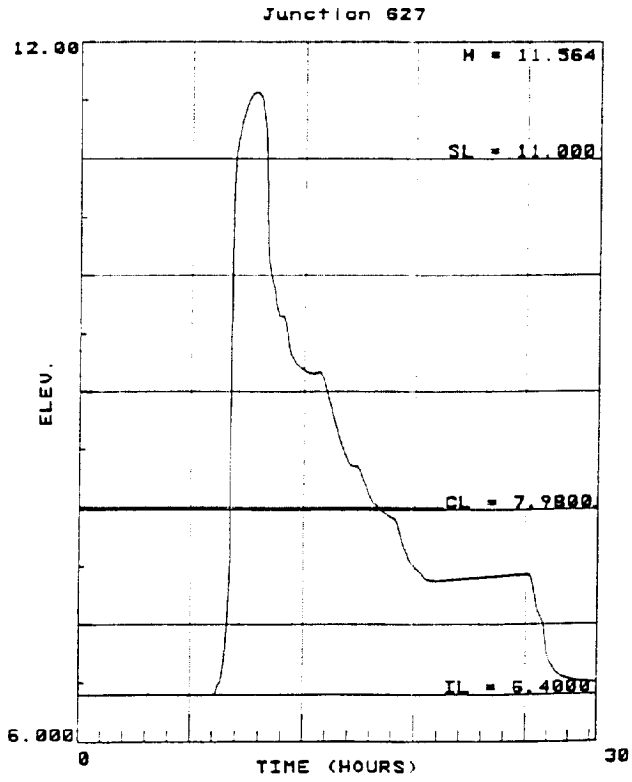

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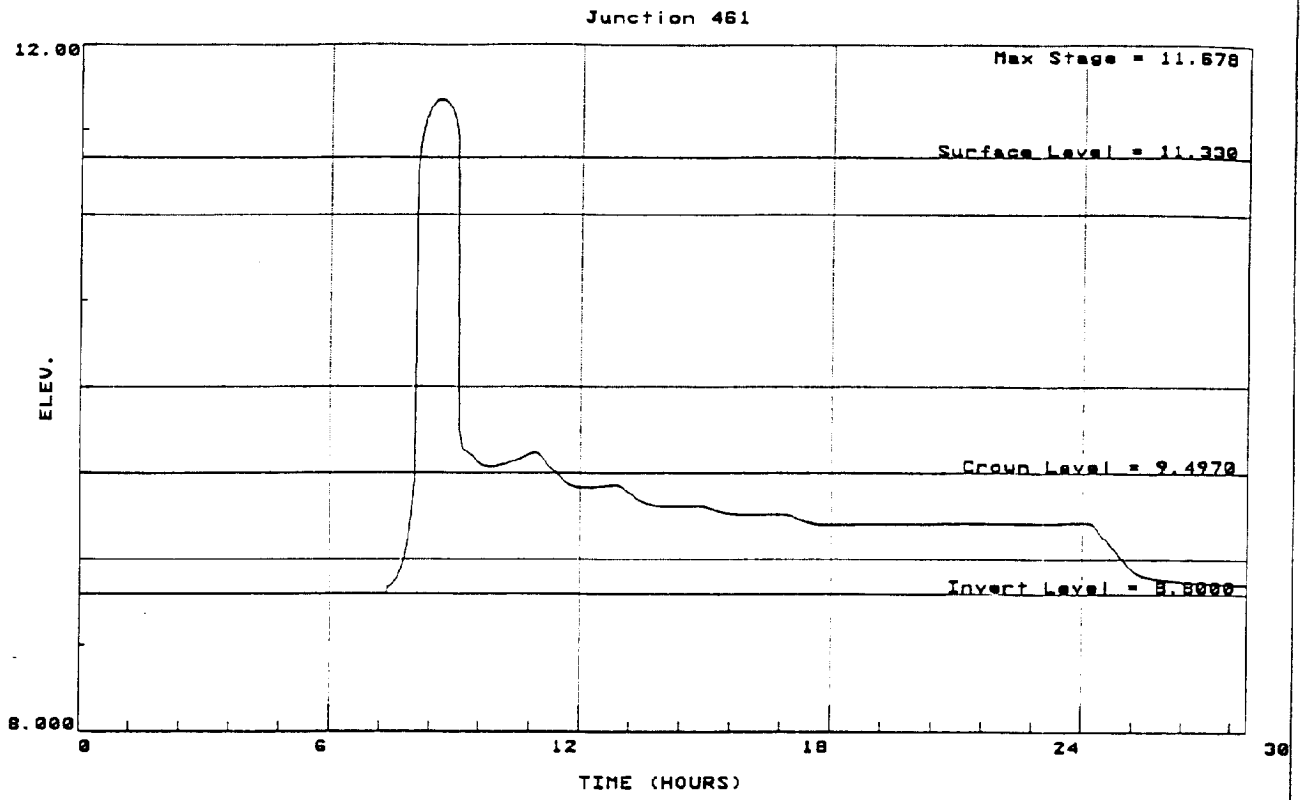

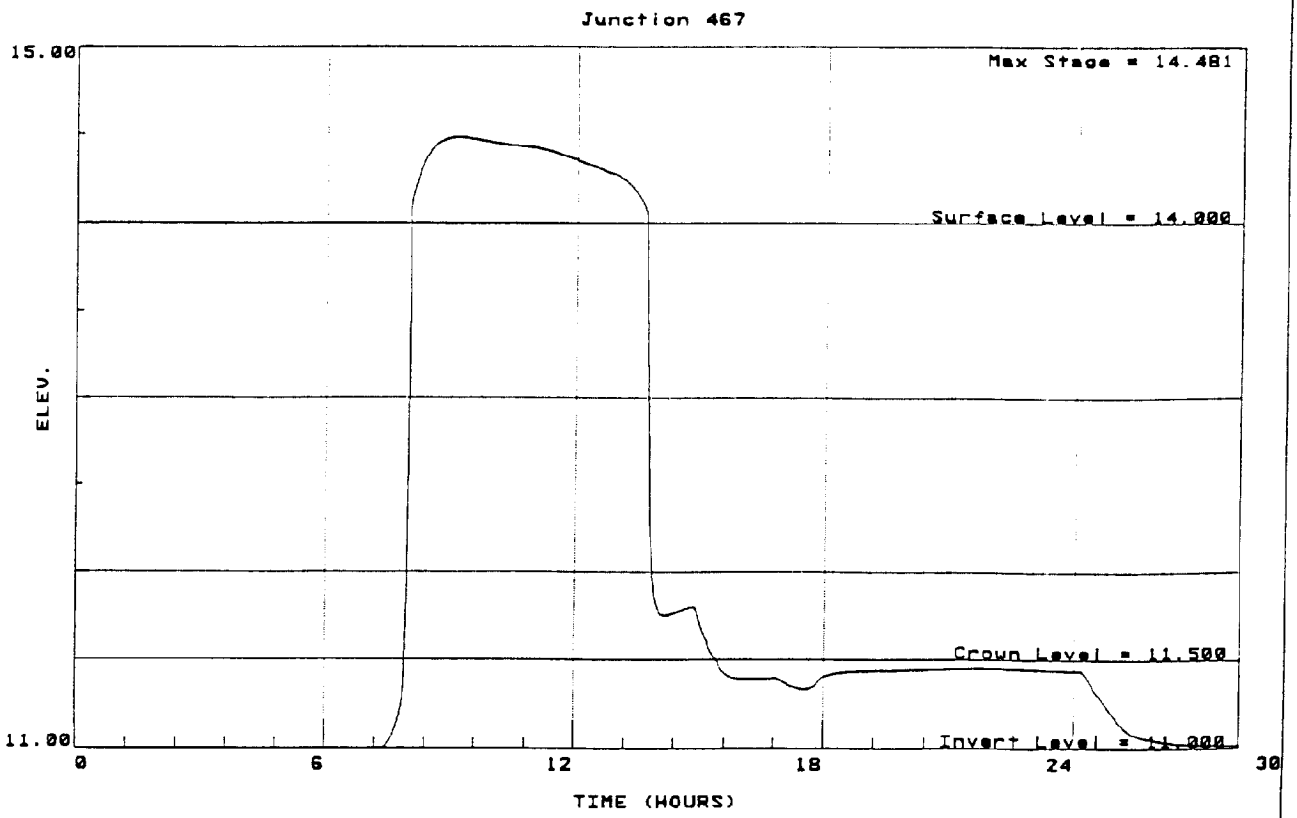

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APPENDIX C

Existing 100 Year Backwater Analysis

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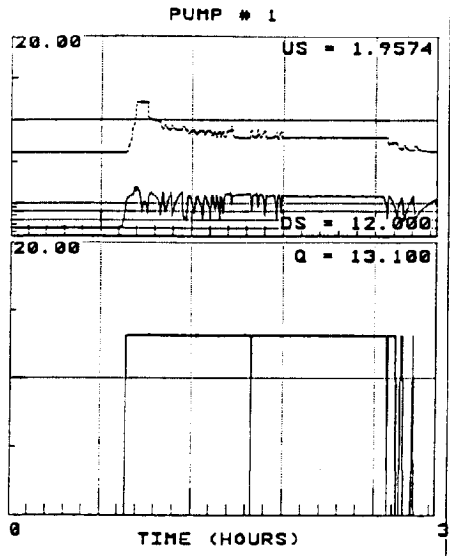

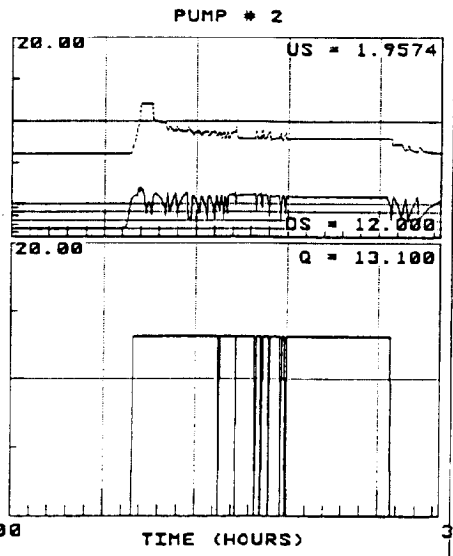

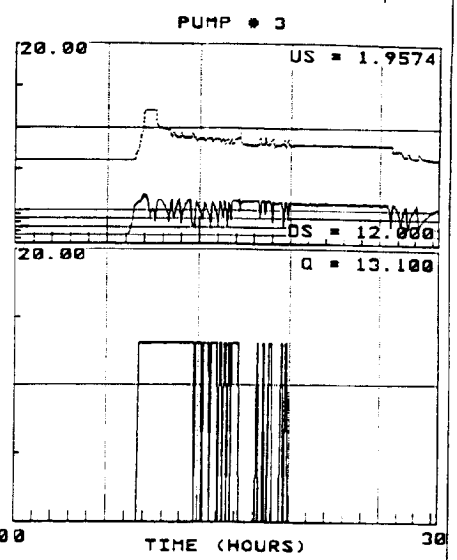

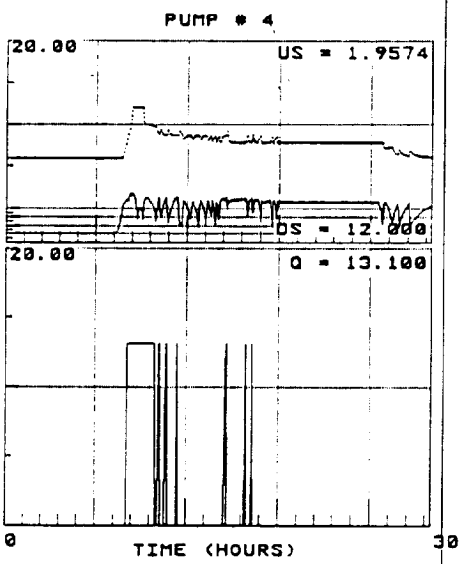

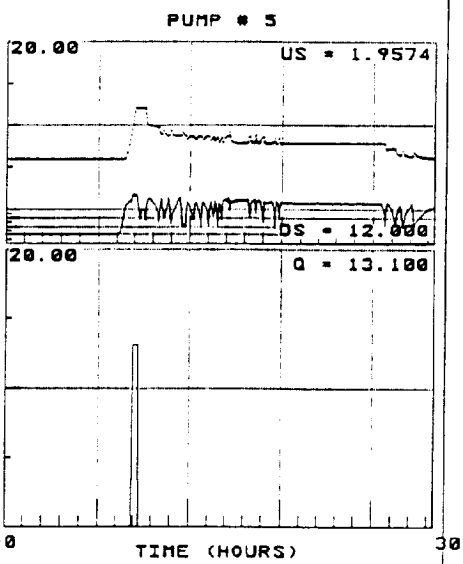

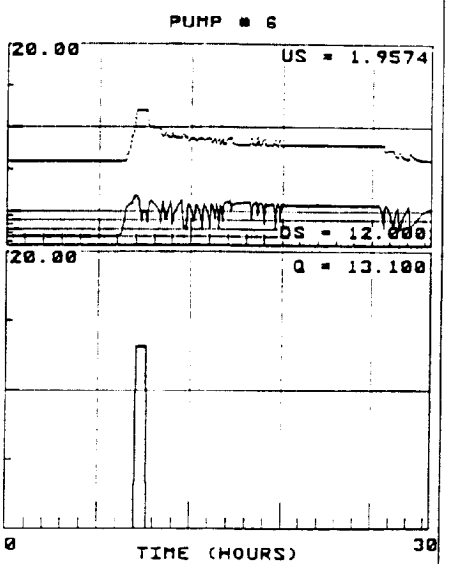

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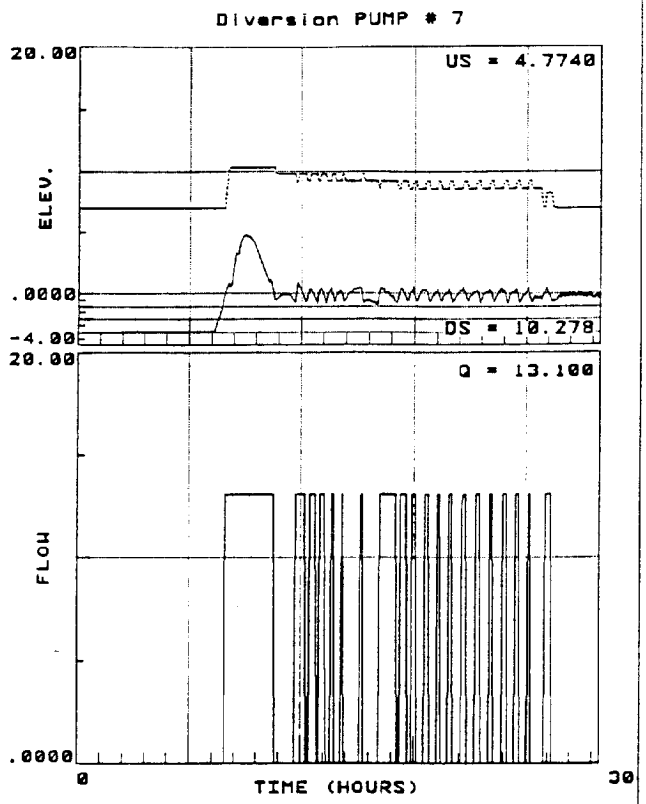

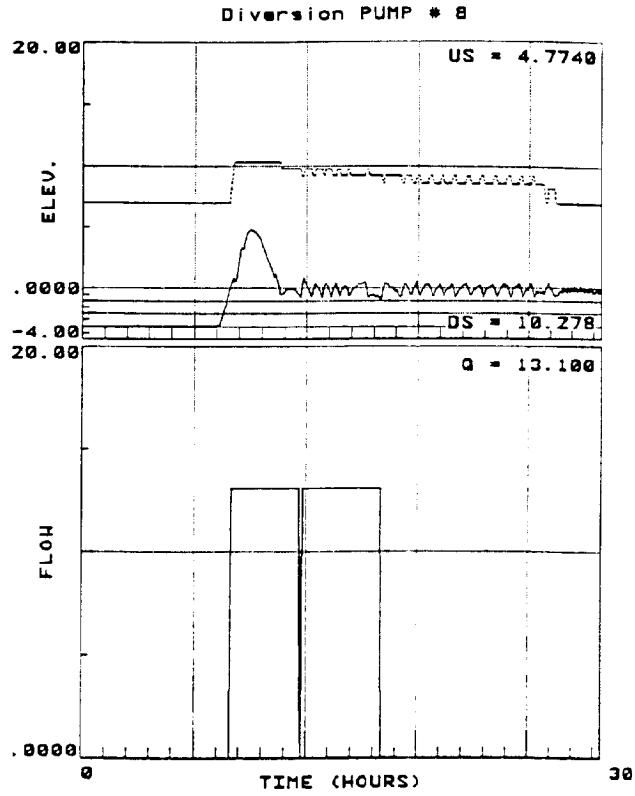

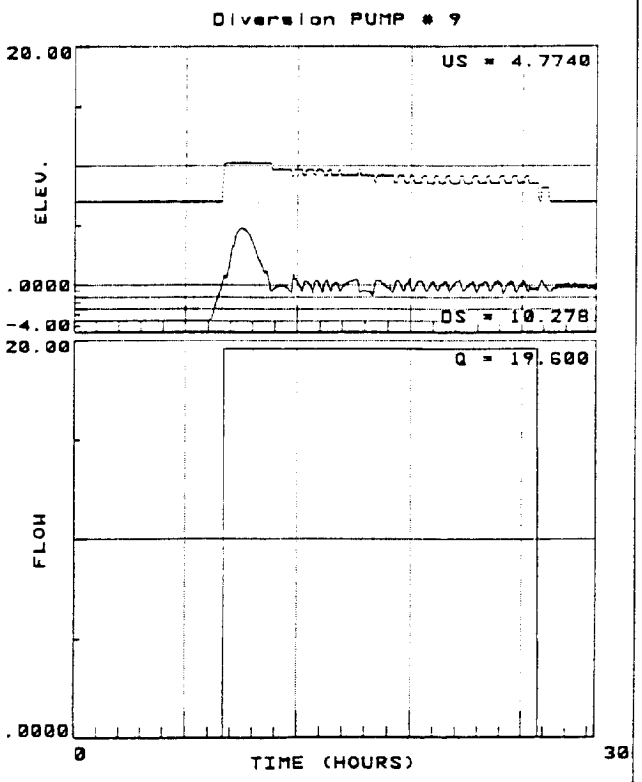

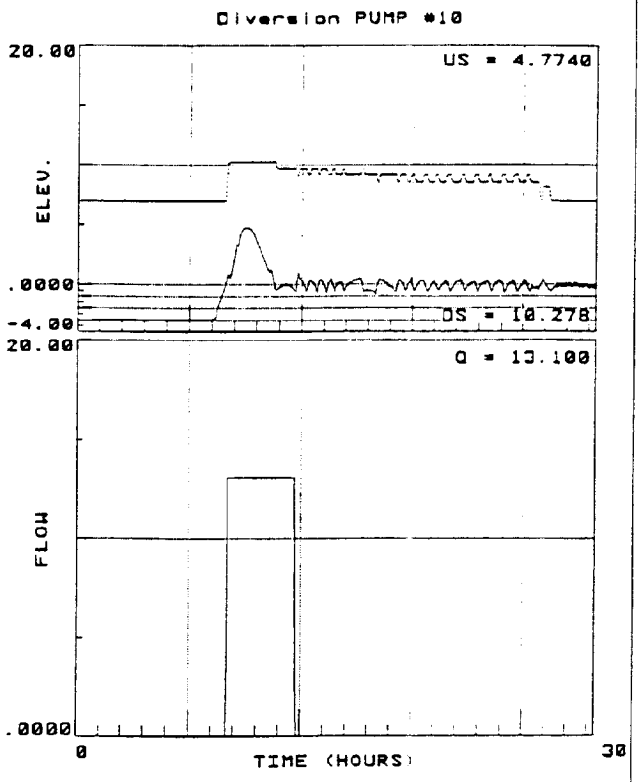

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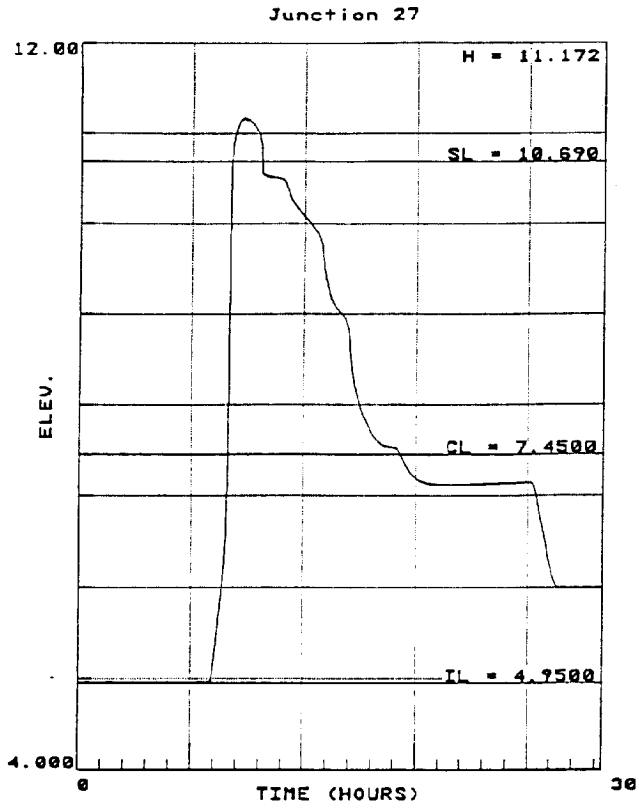

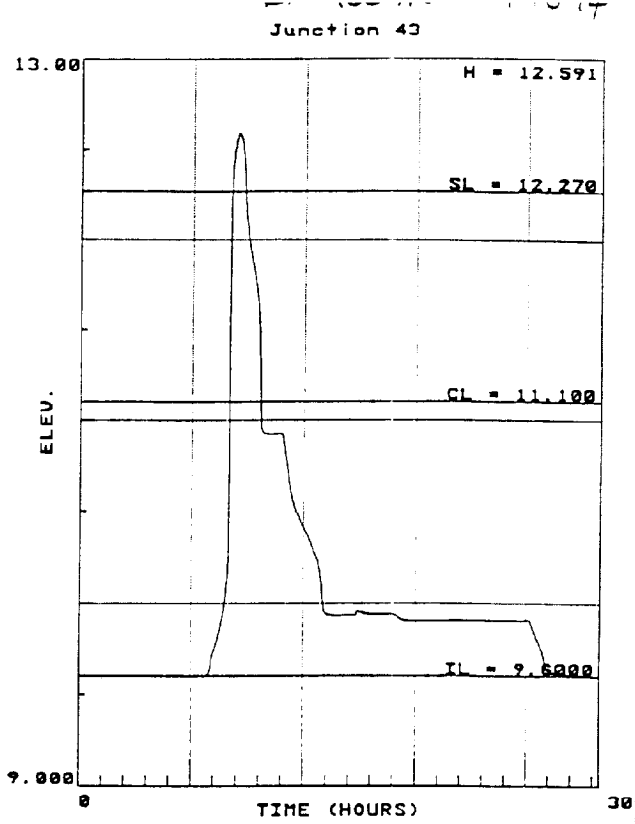

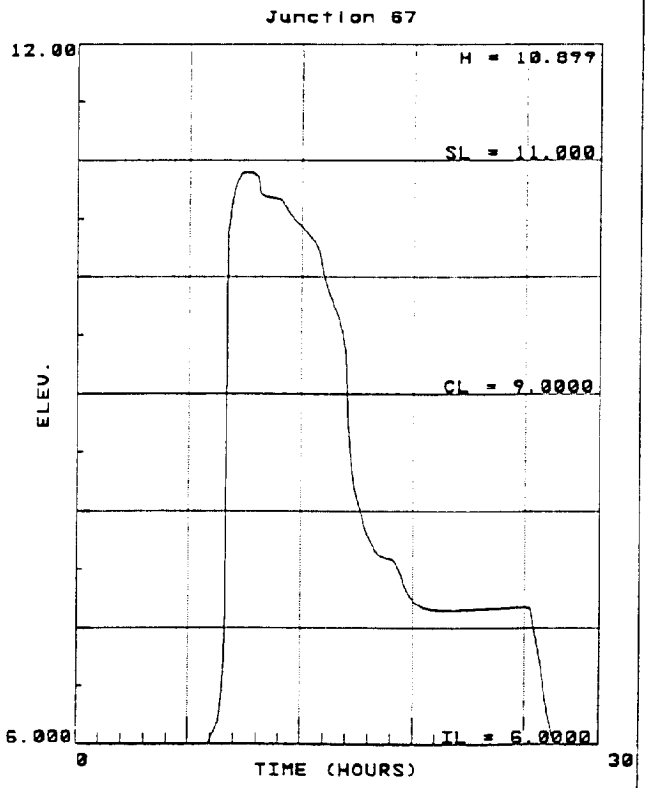

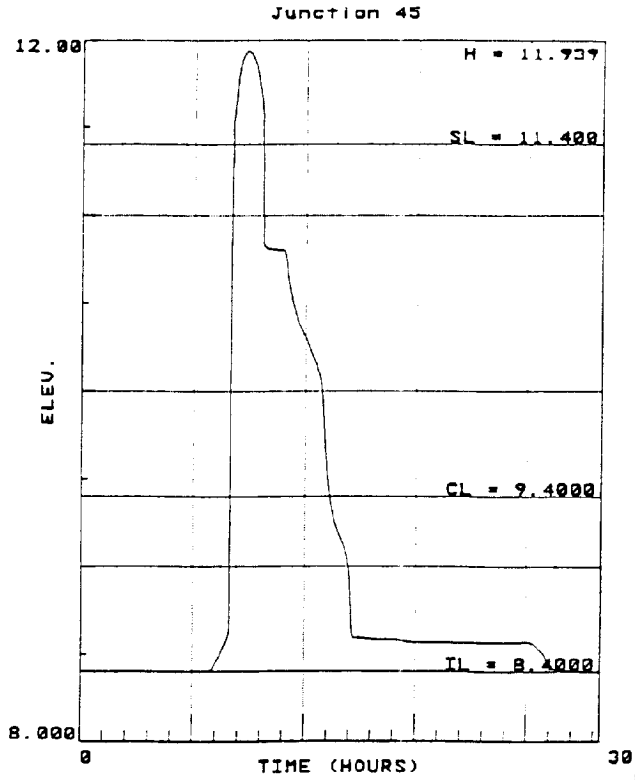

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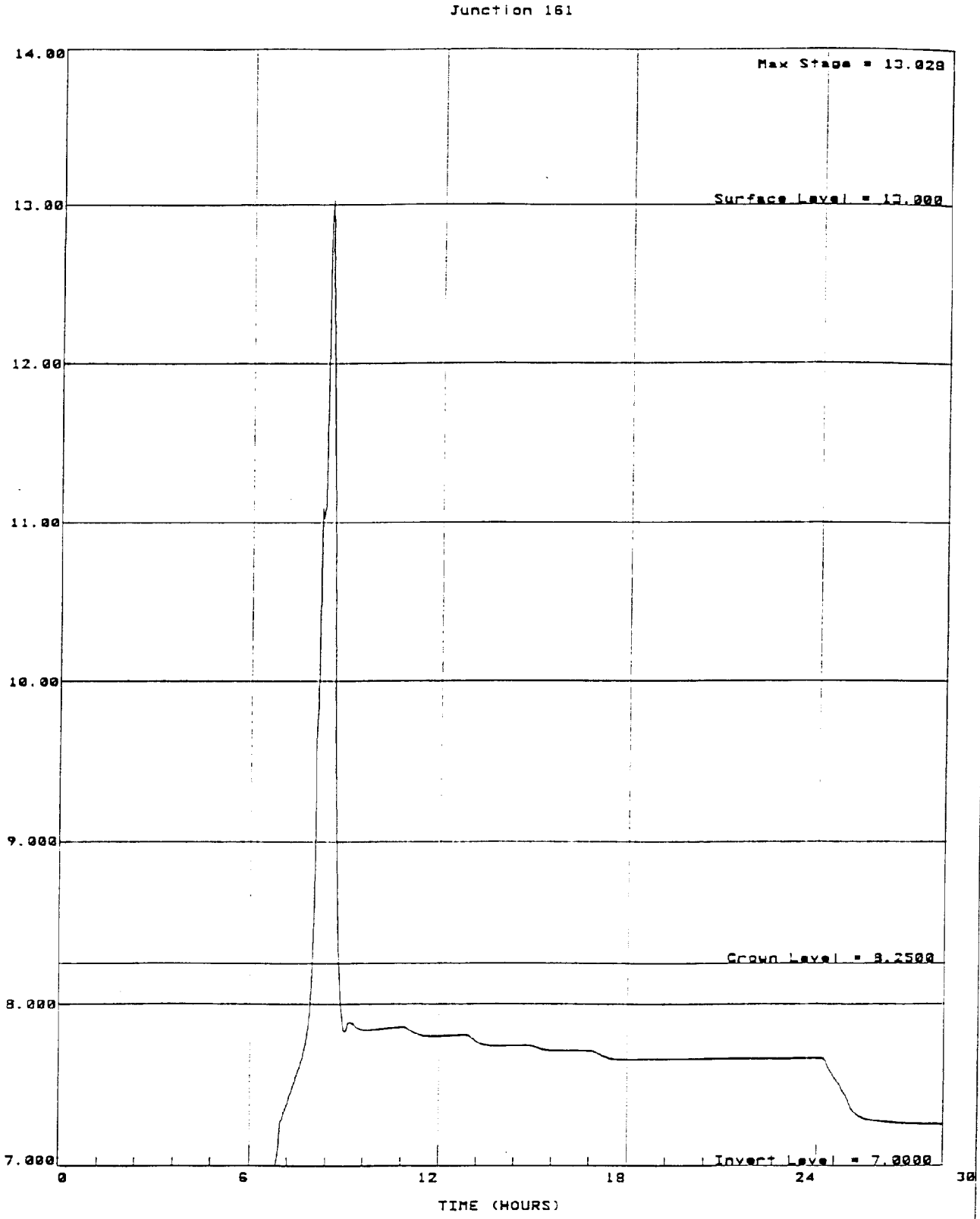

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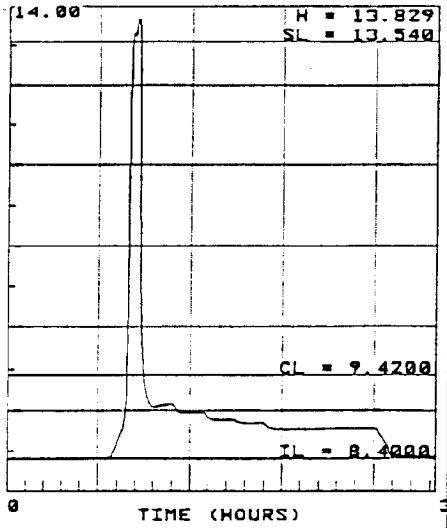

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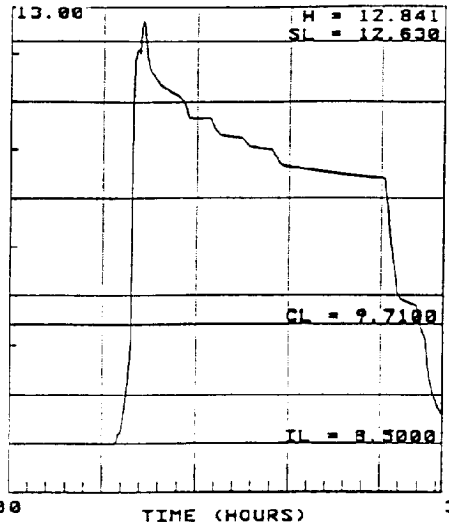

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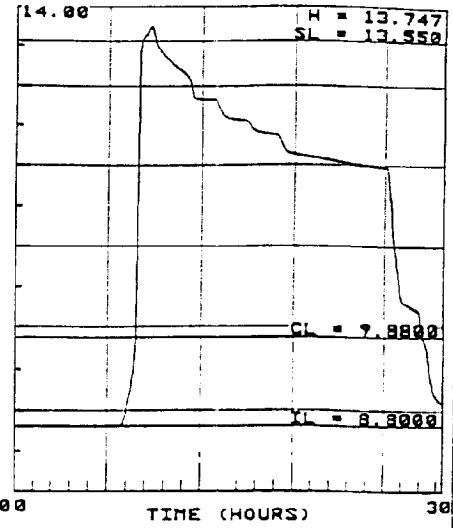

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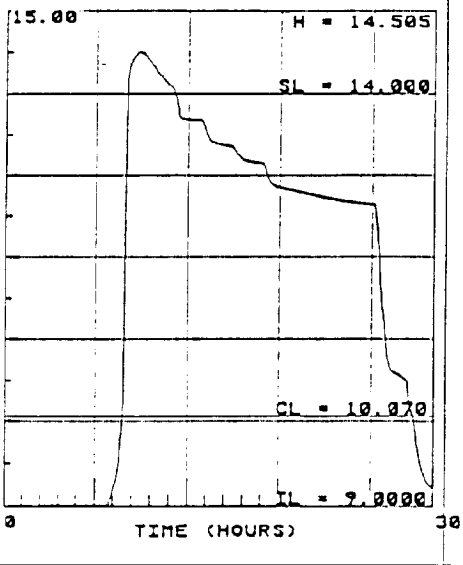

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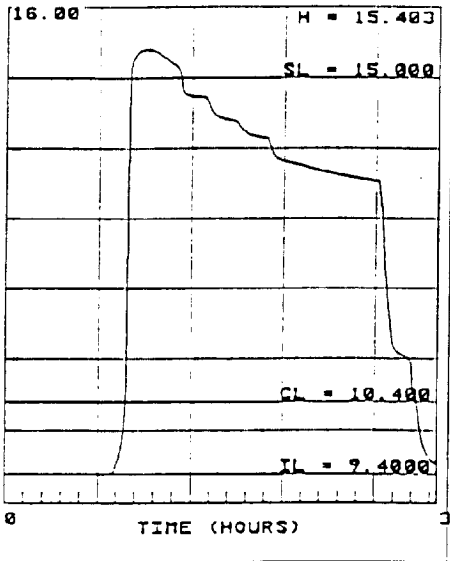

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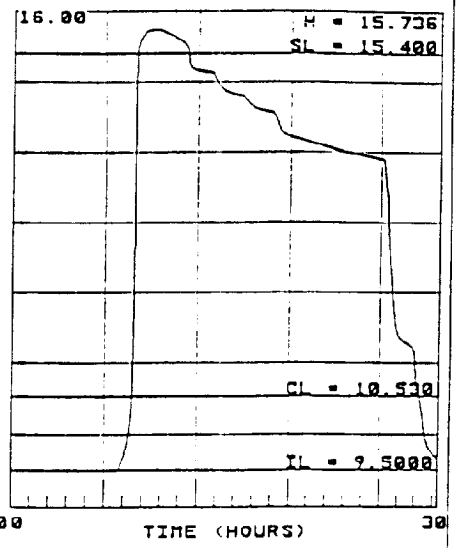

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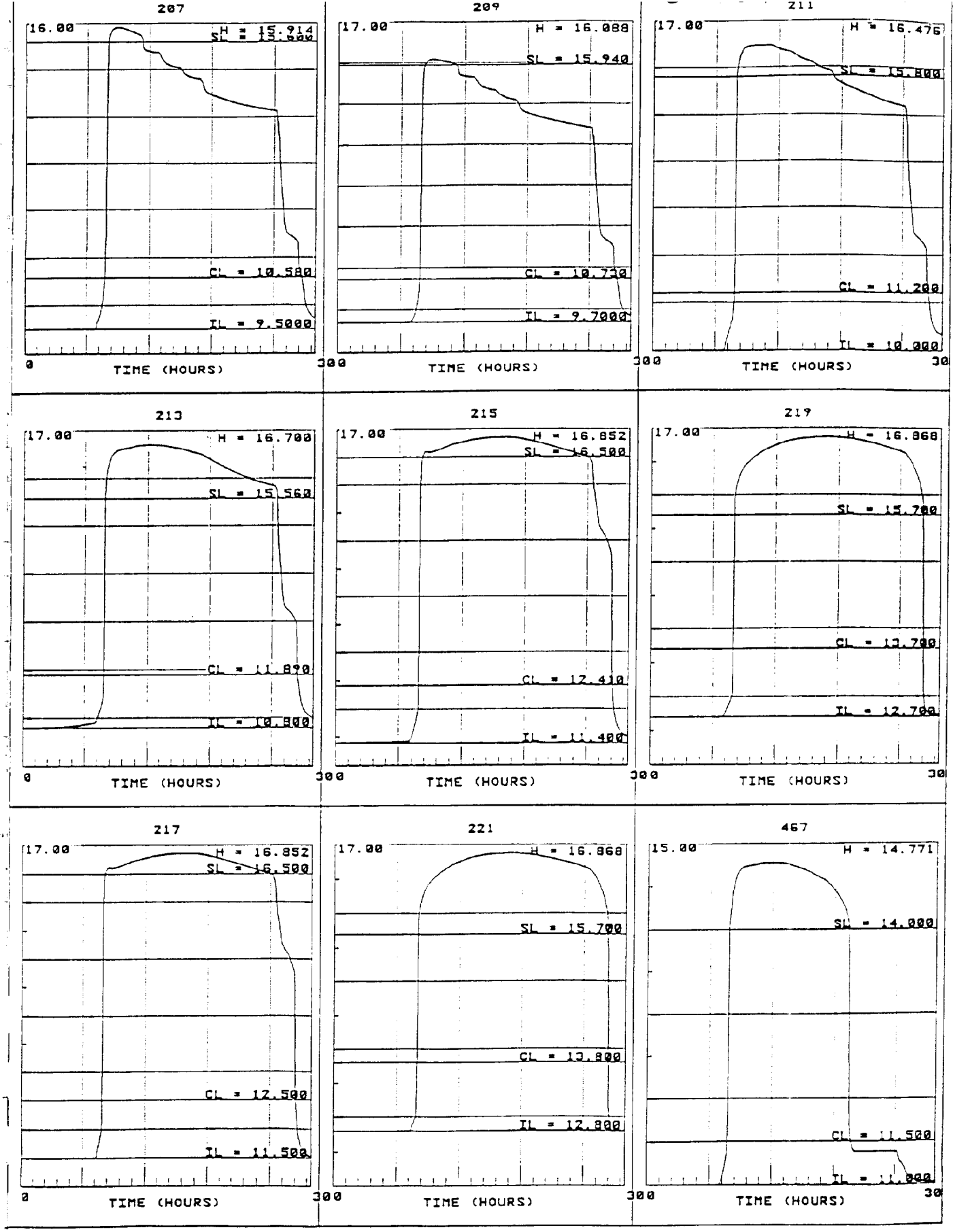

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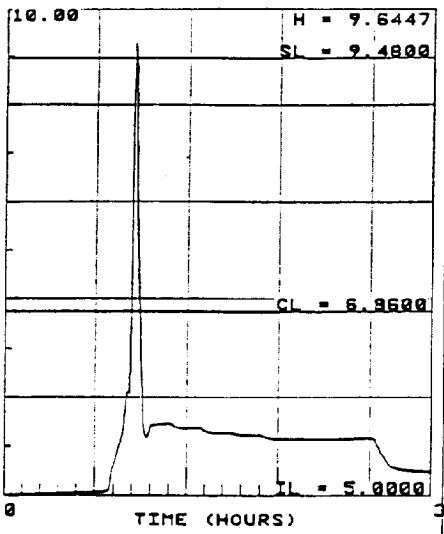

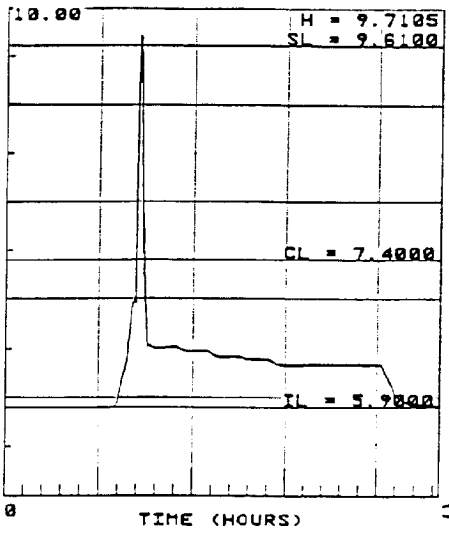

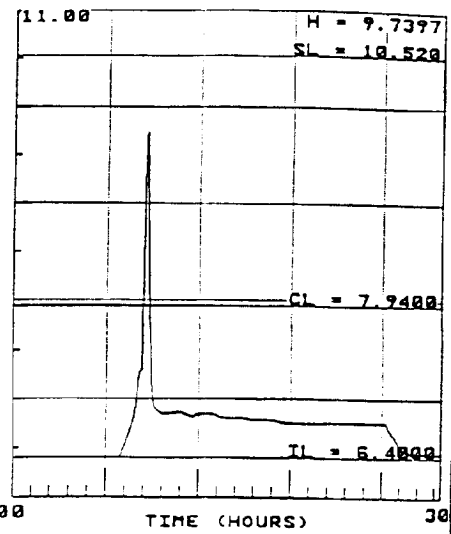

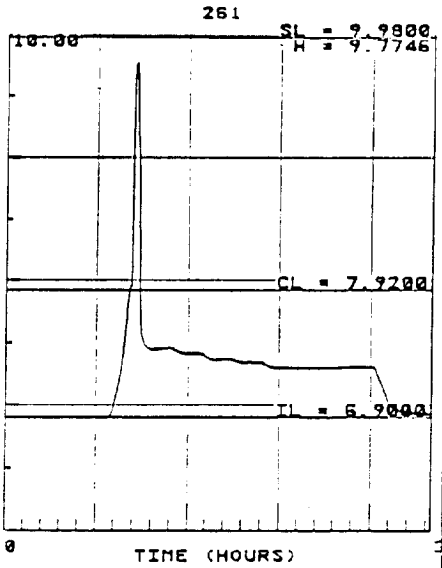

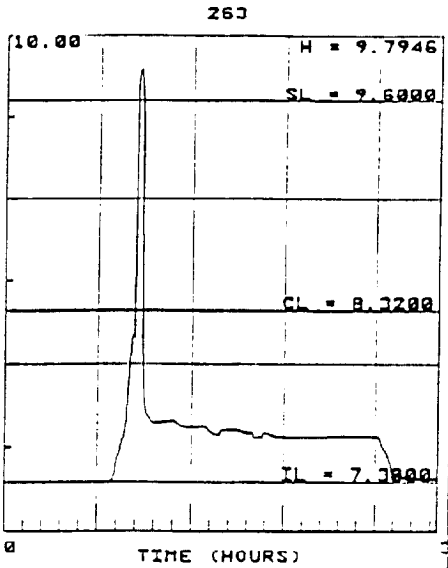

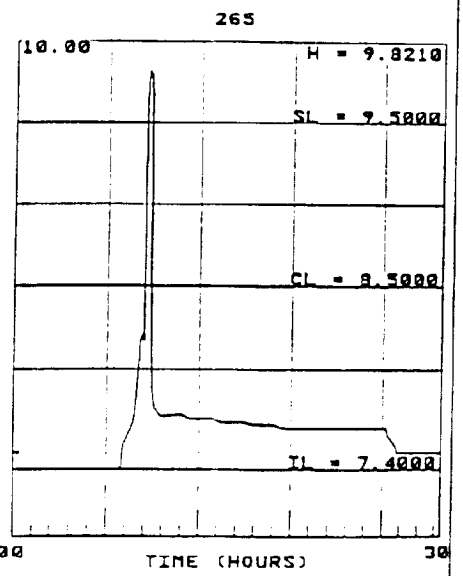

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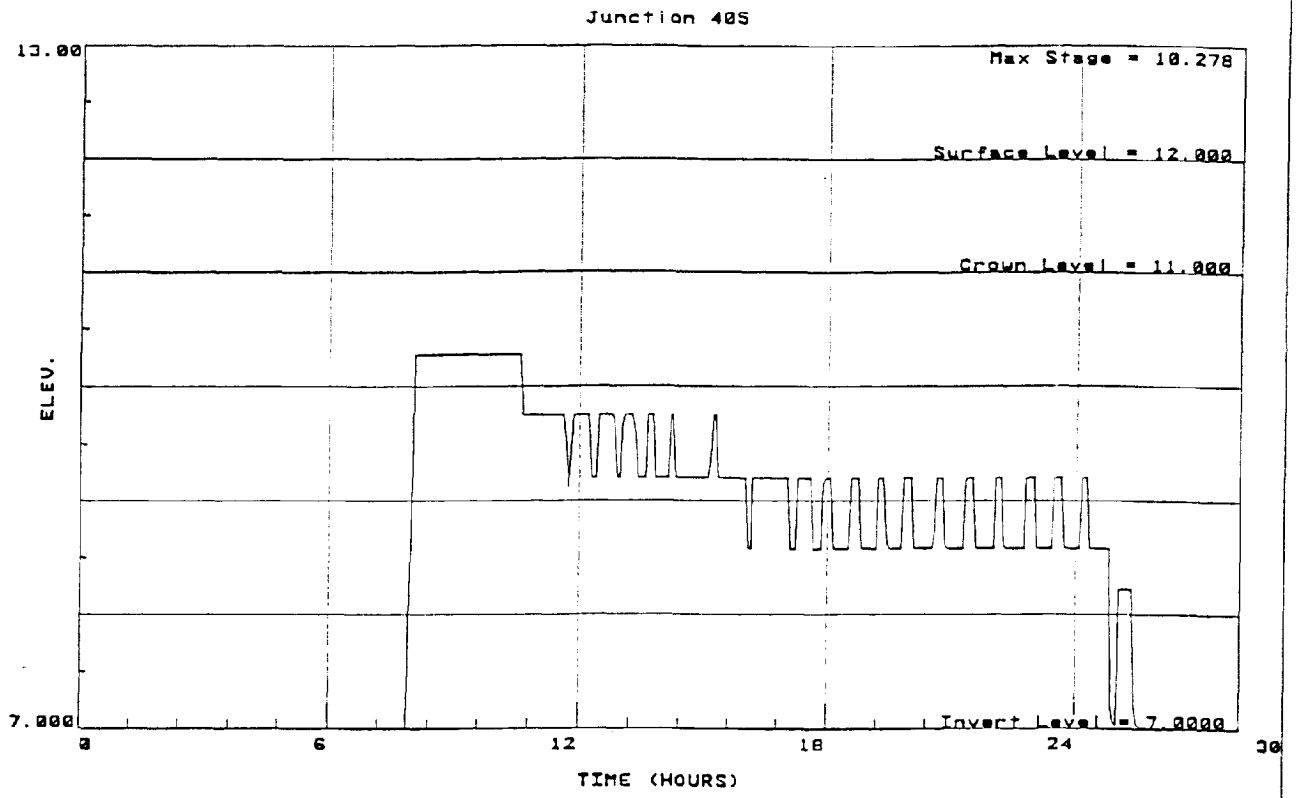

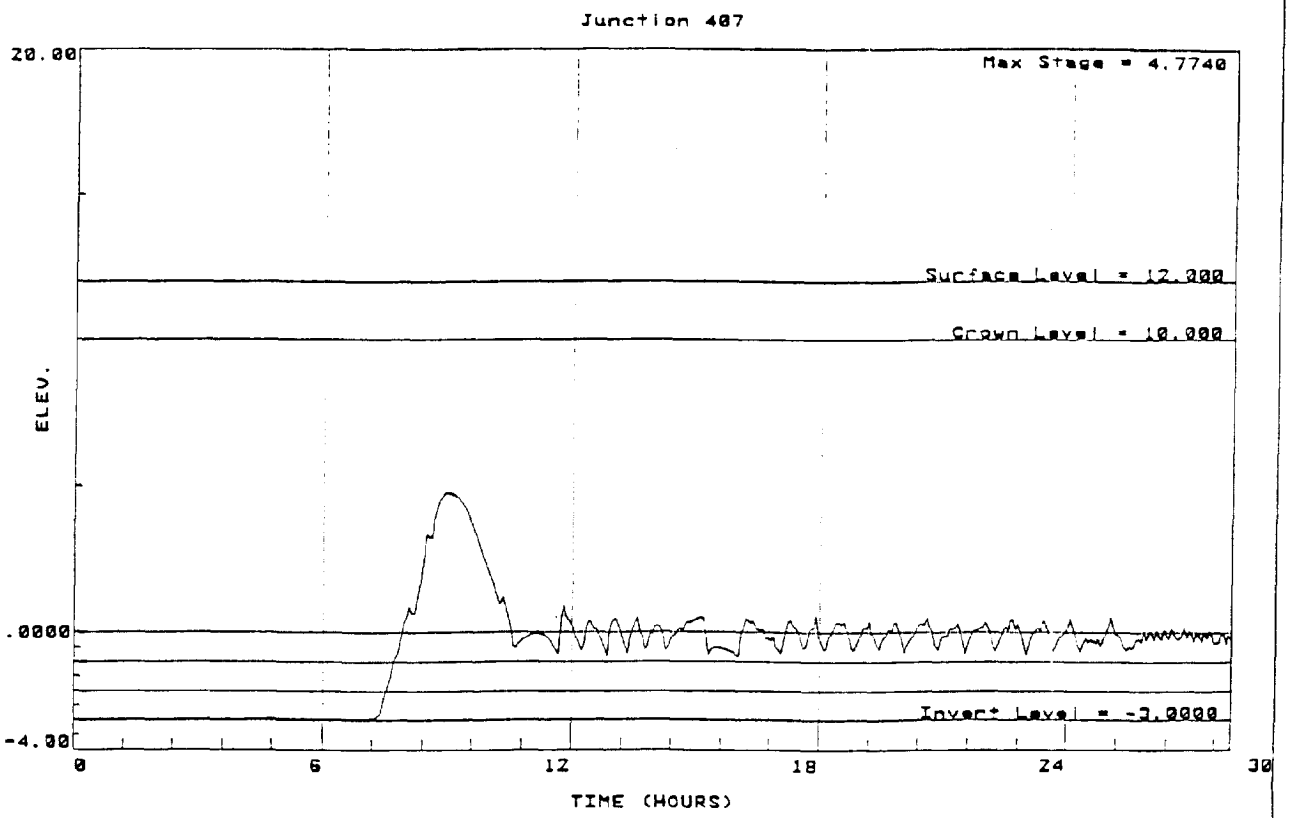

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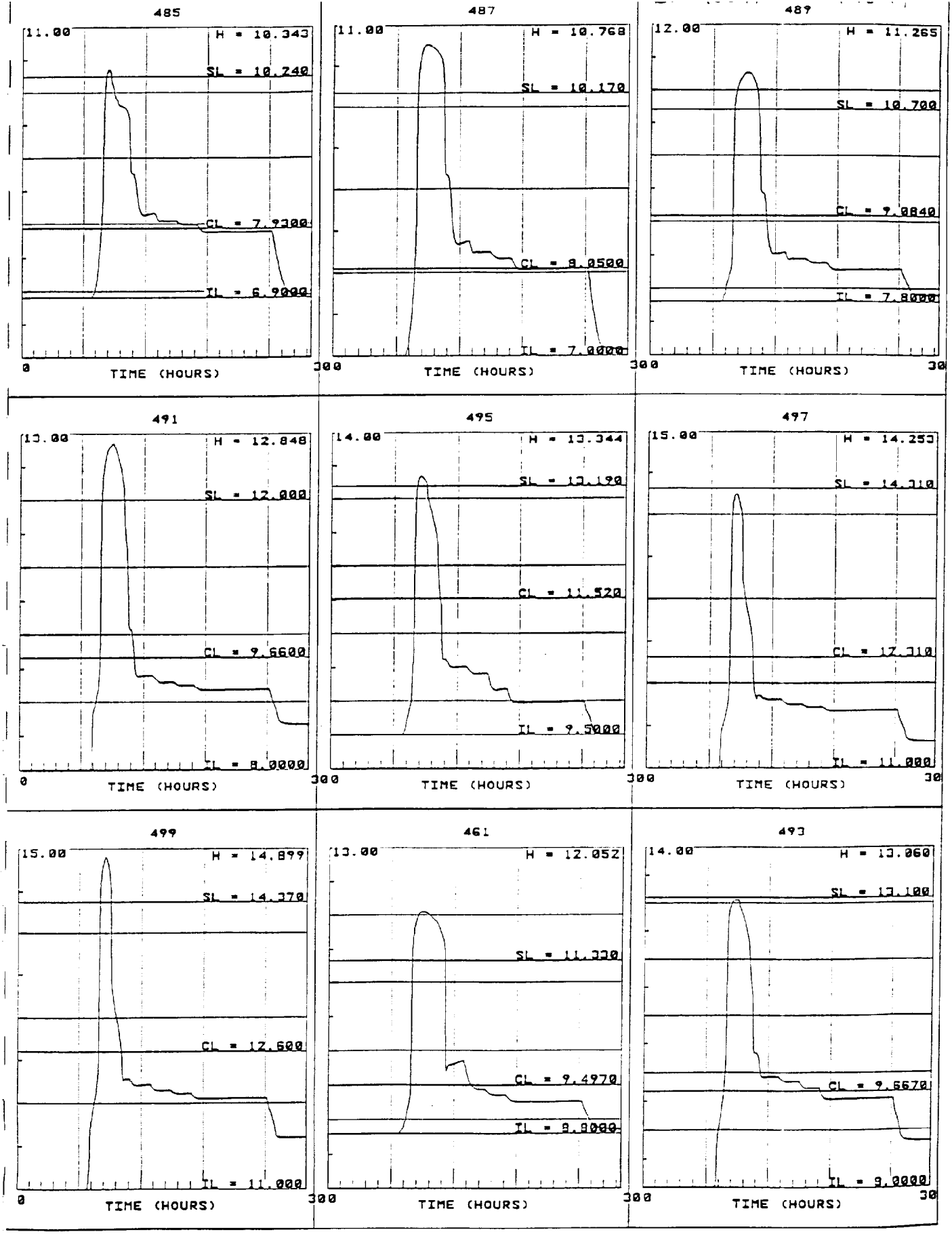

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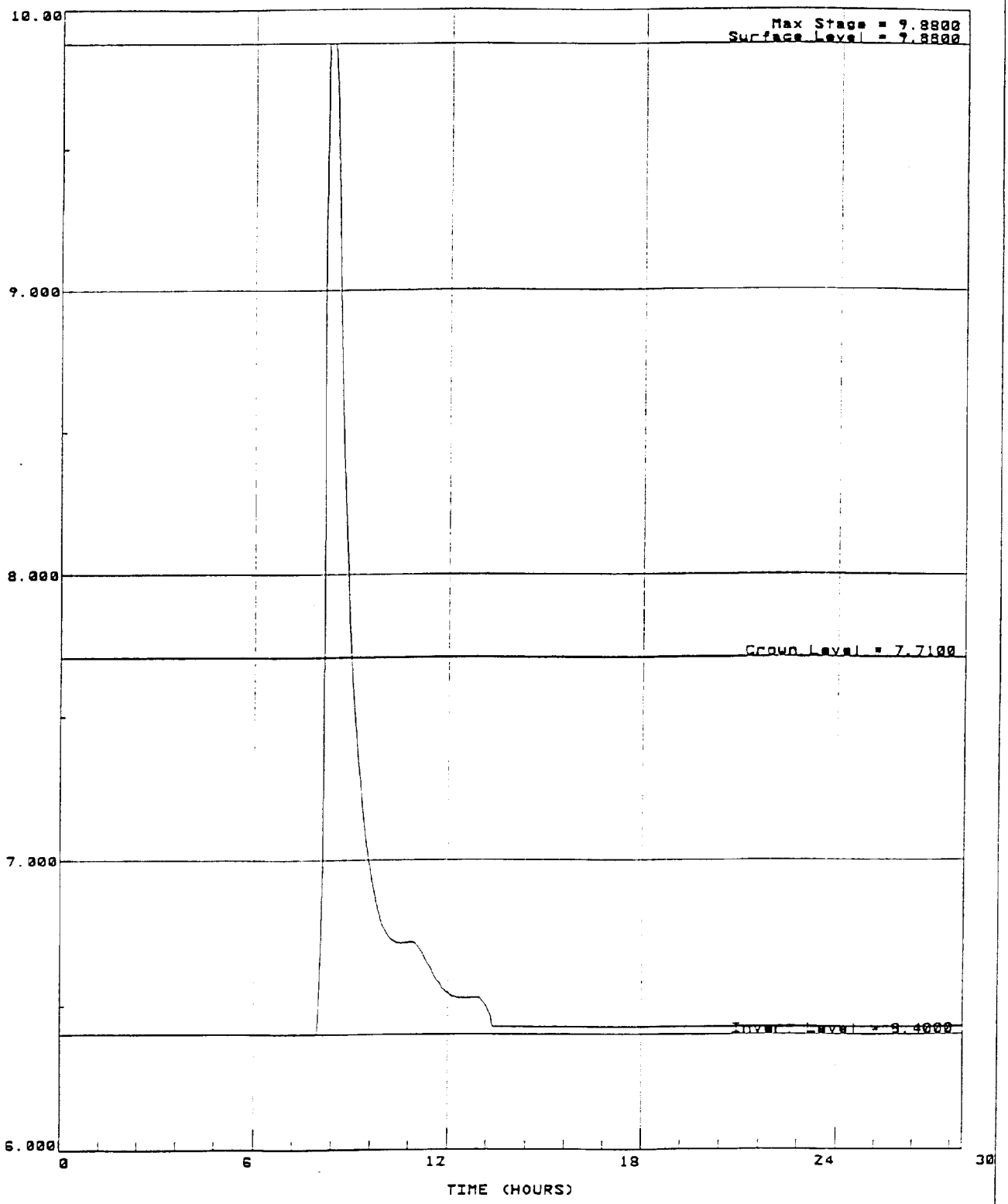
Junction 509



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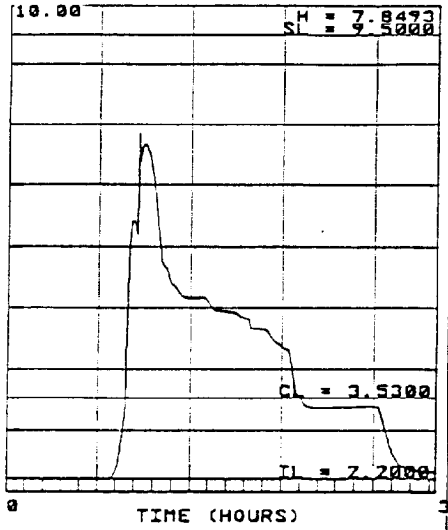

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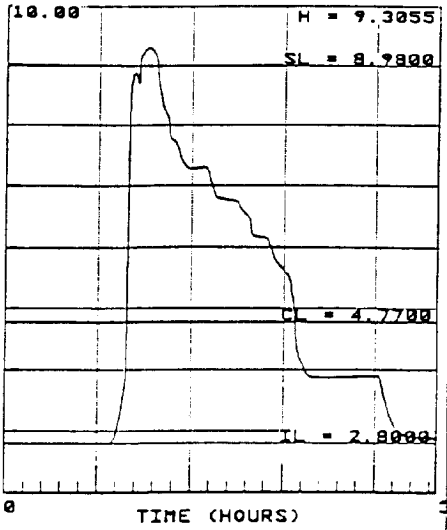

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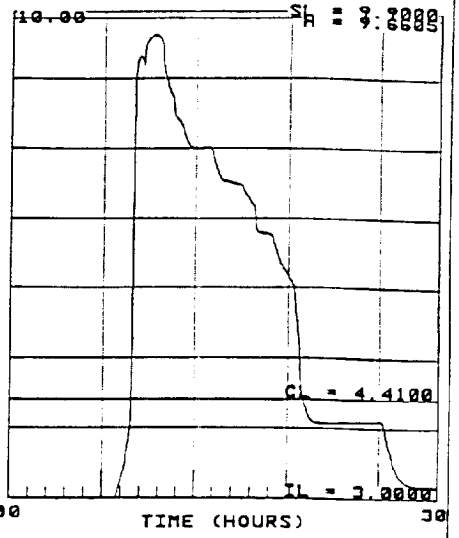

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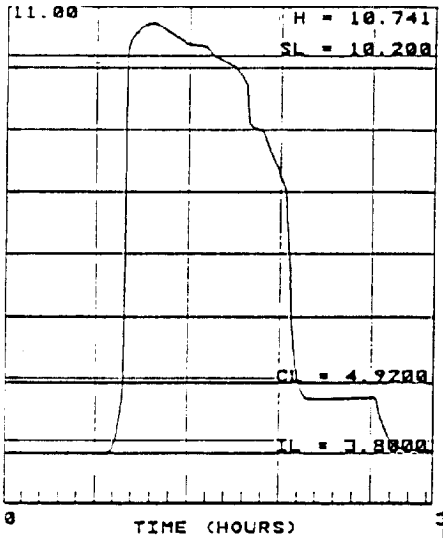

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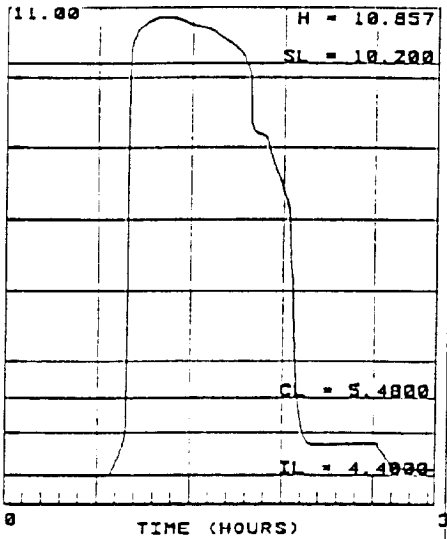

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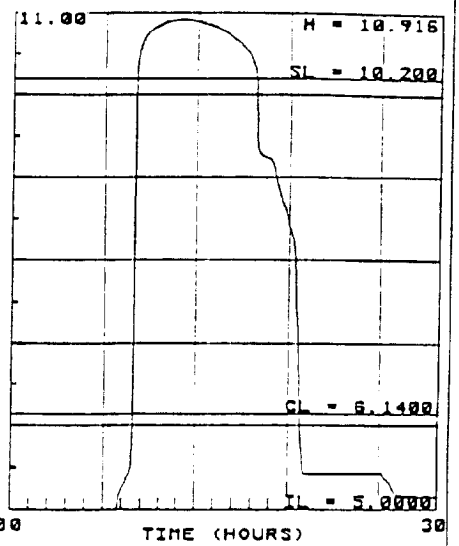

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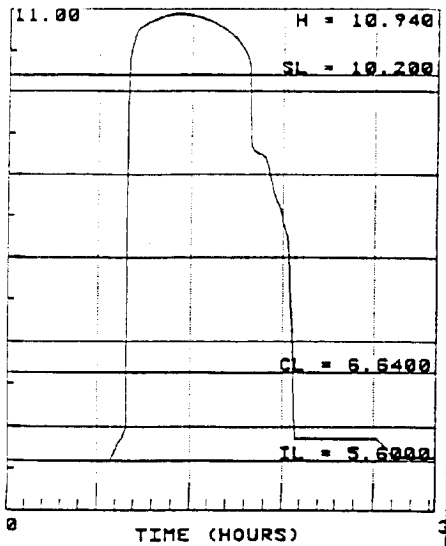

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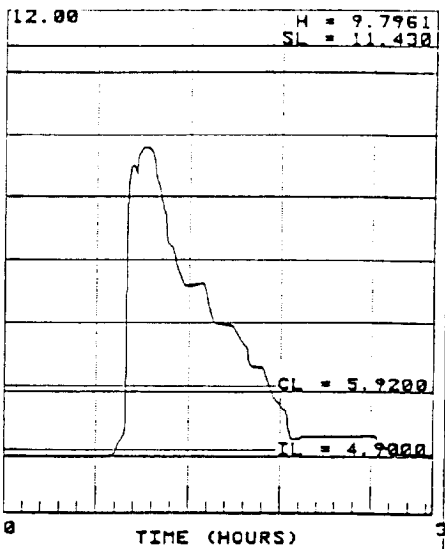

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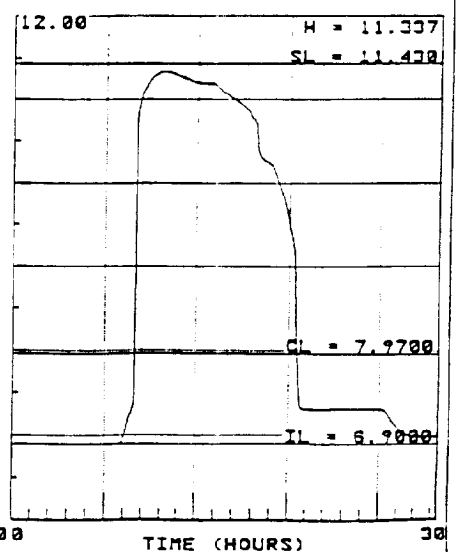

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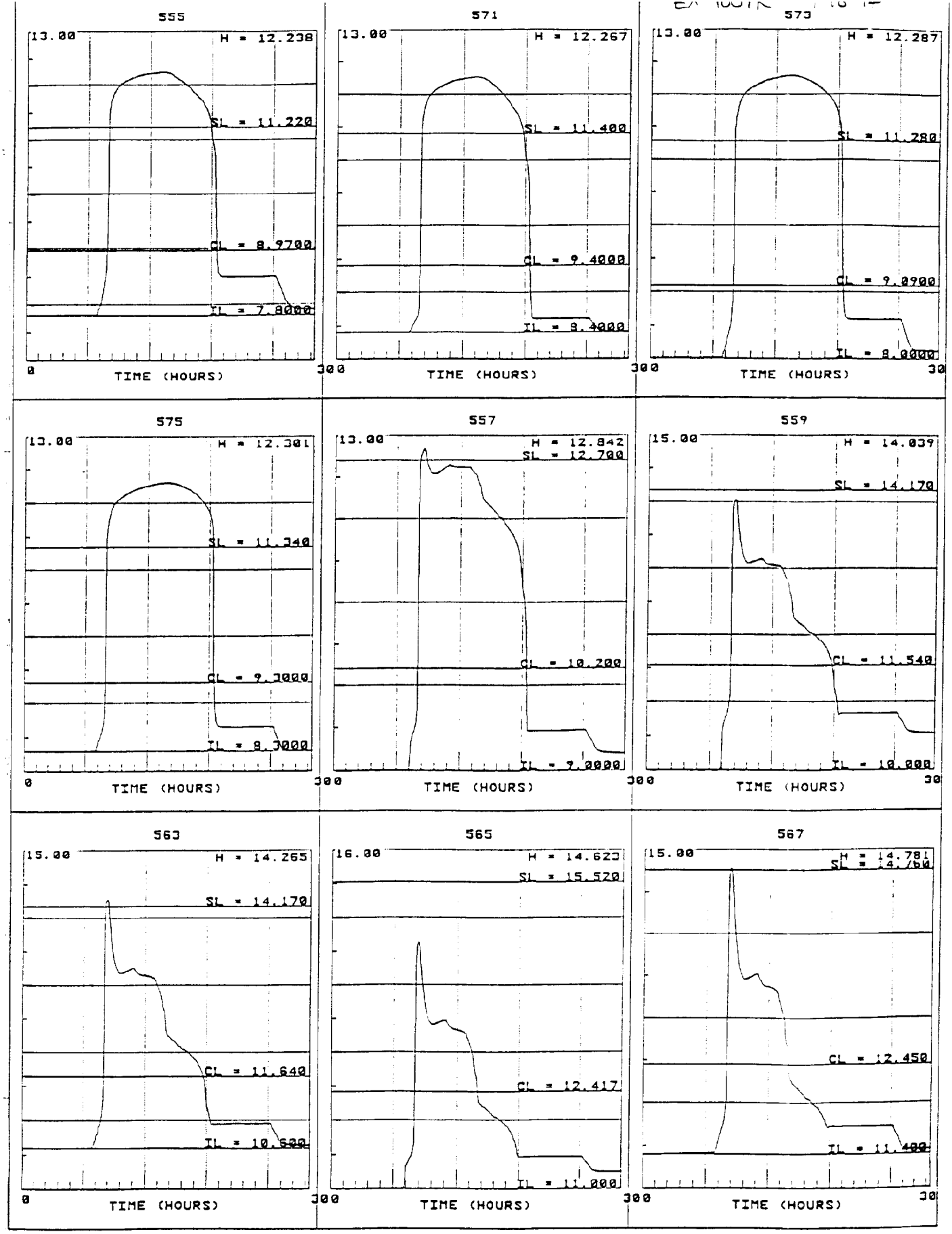

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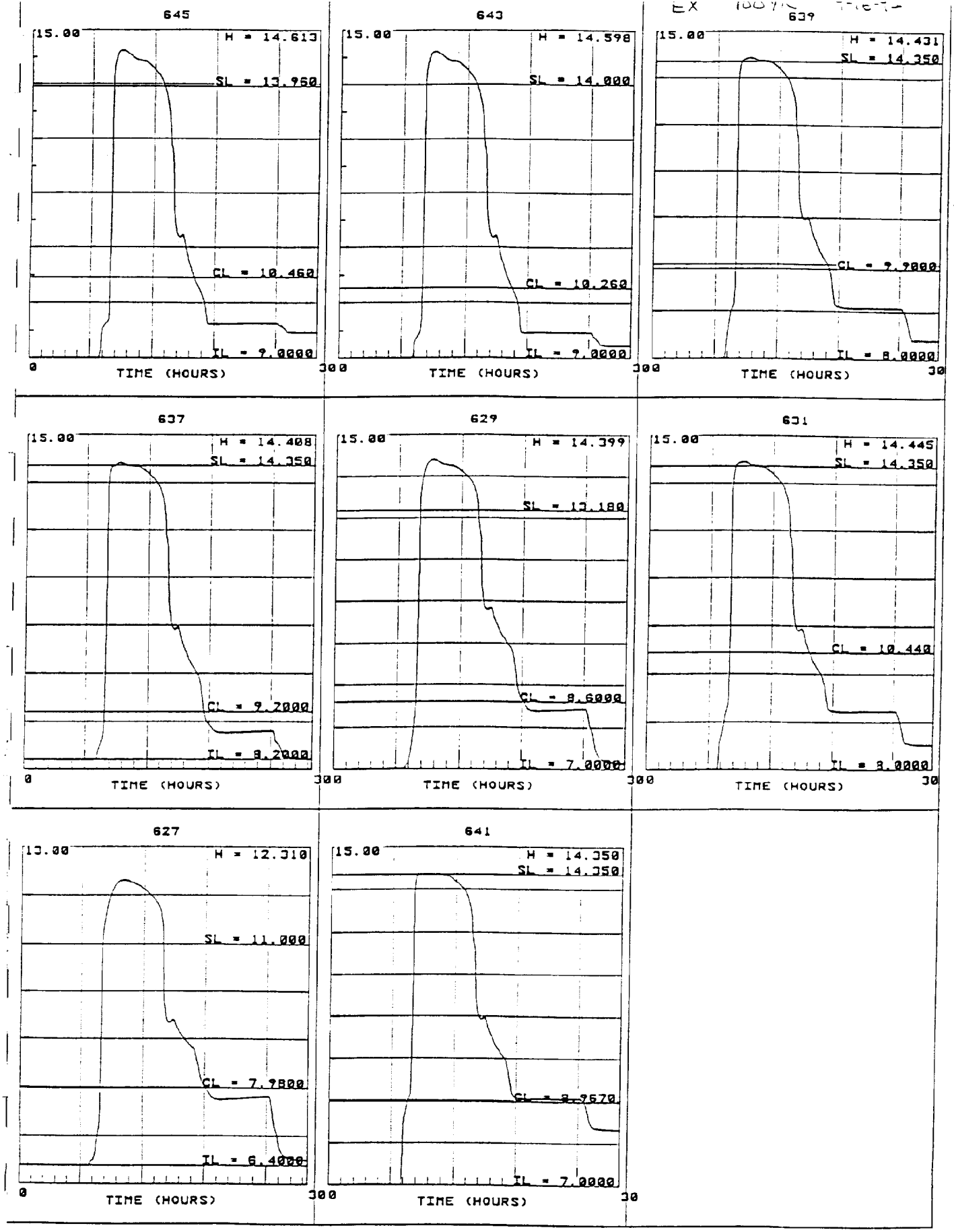

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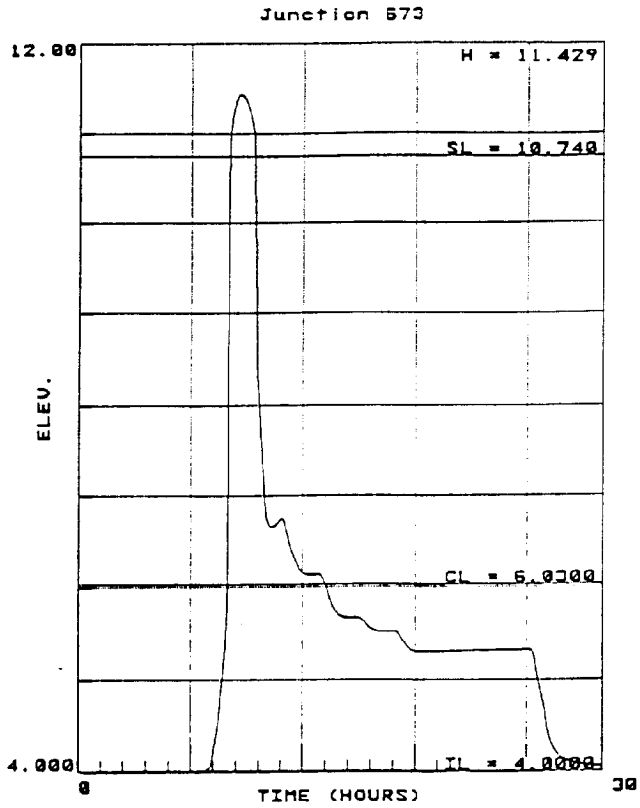

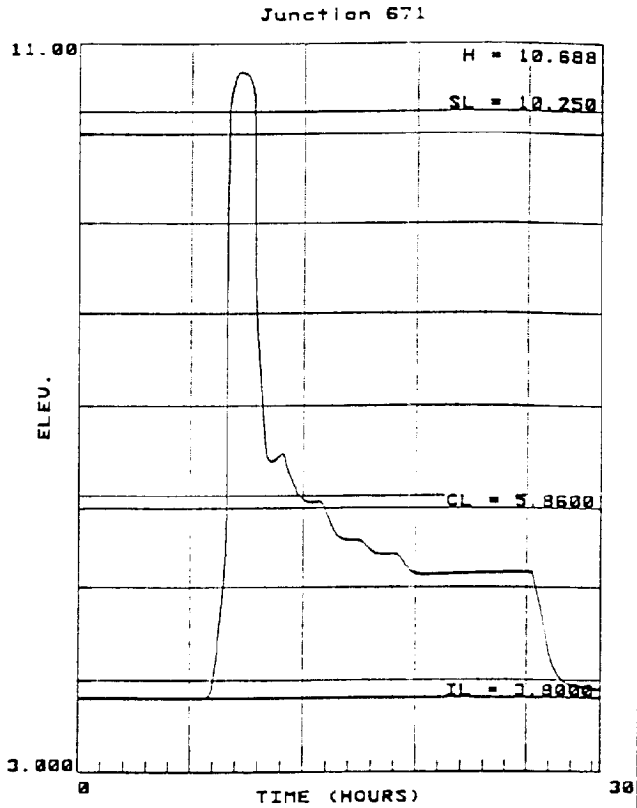

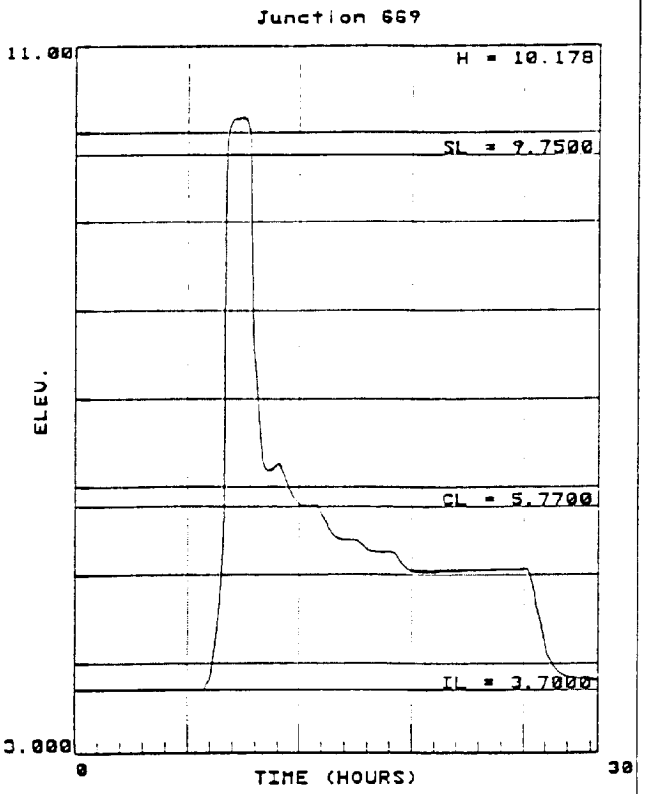

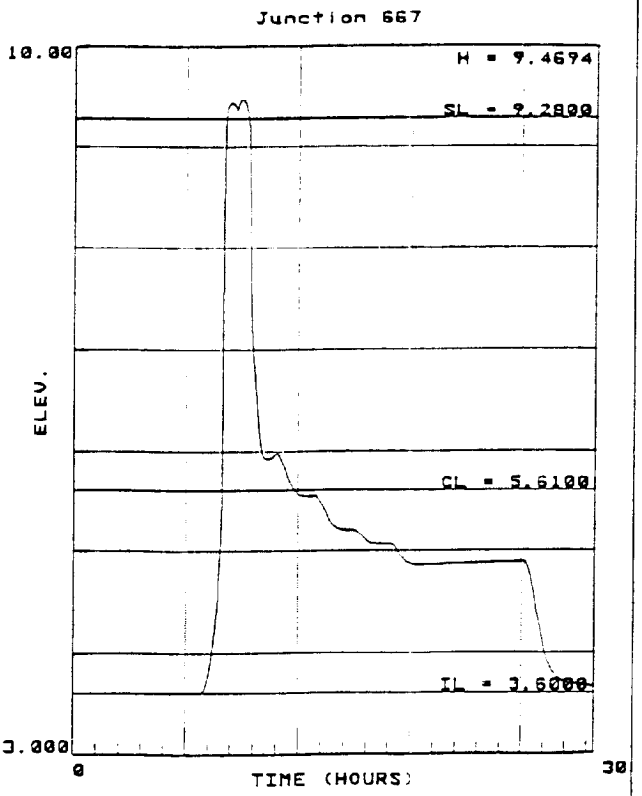

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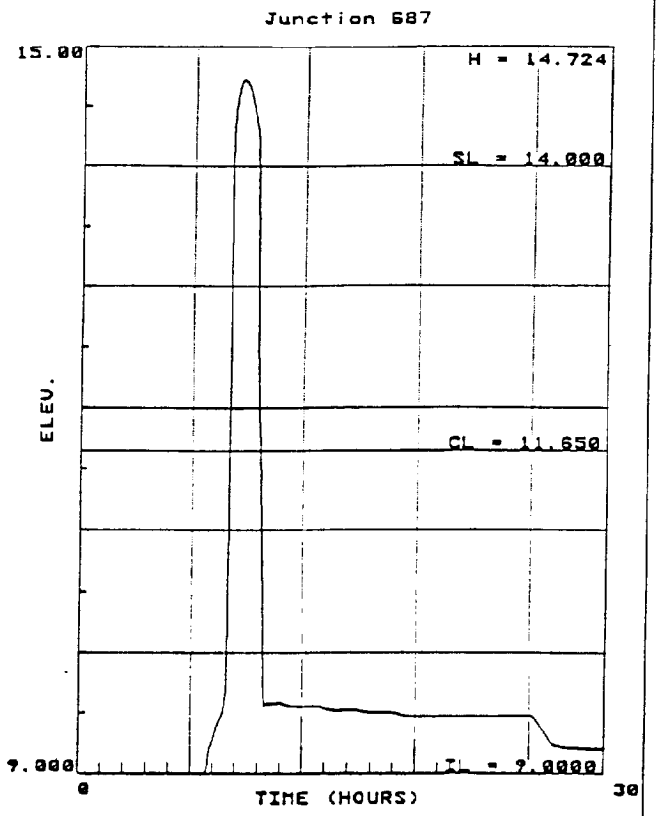

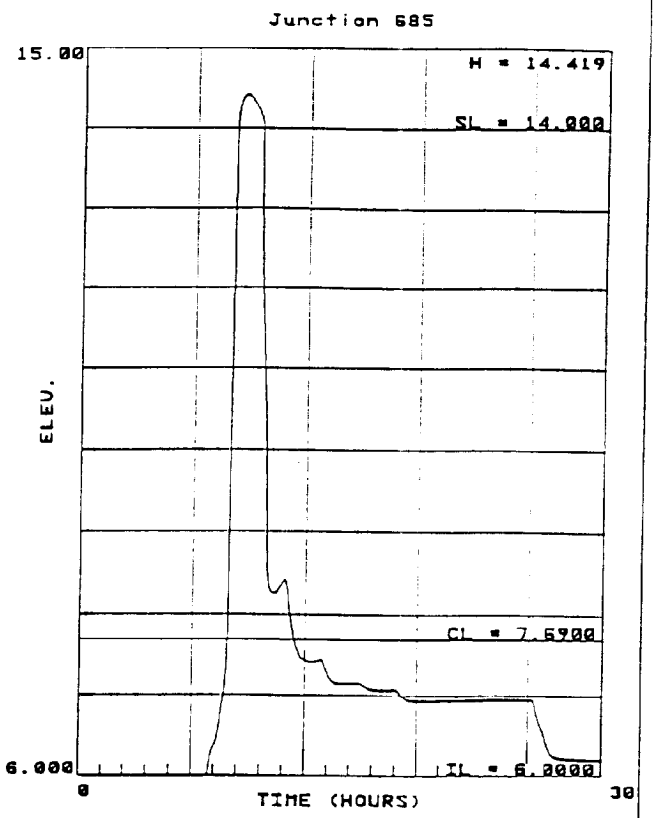

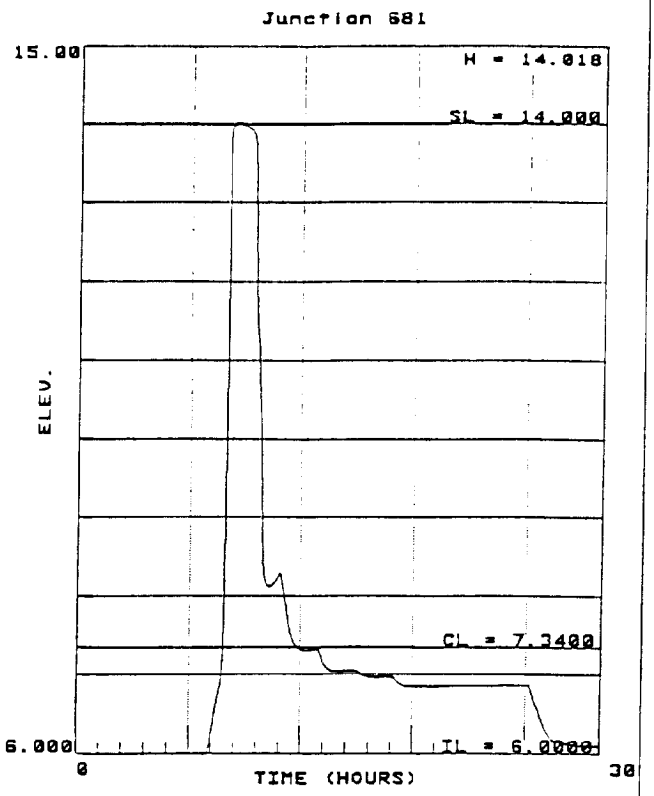

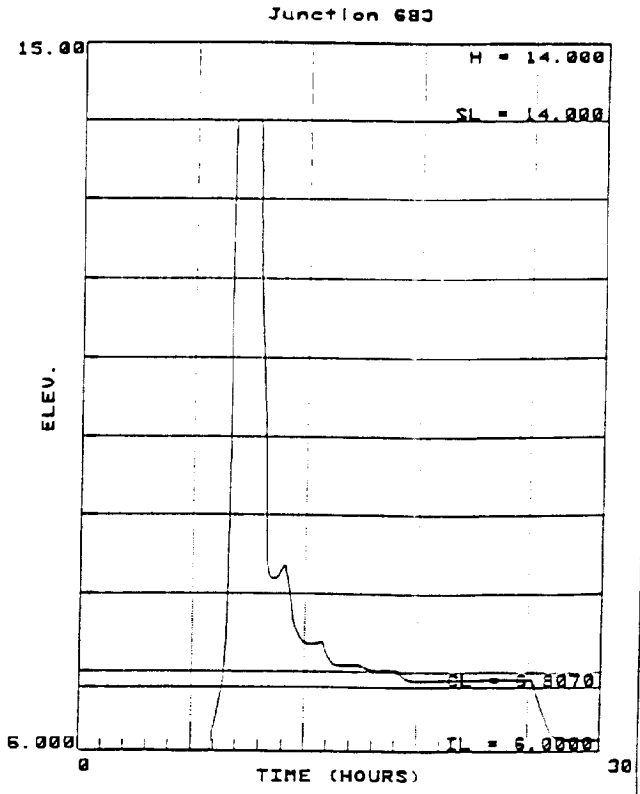

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SEA401959

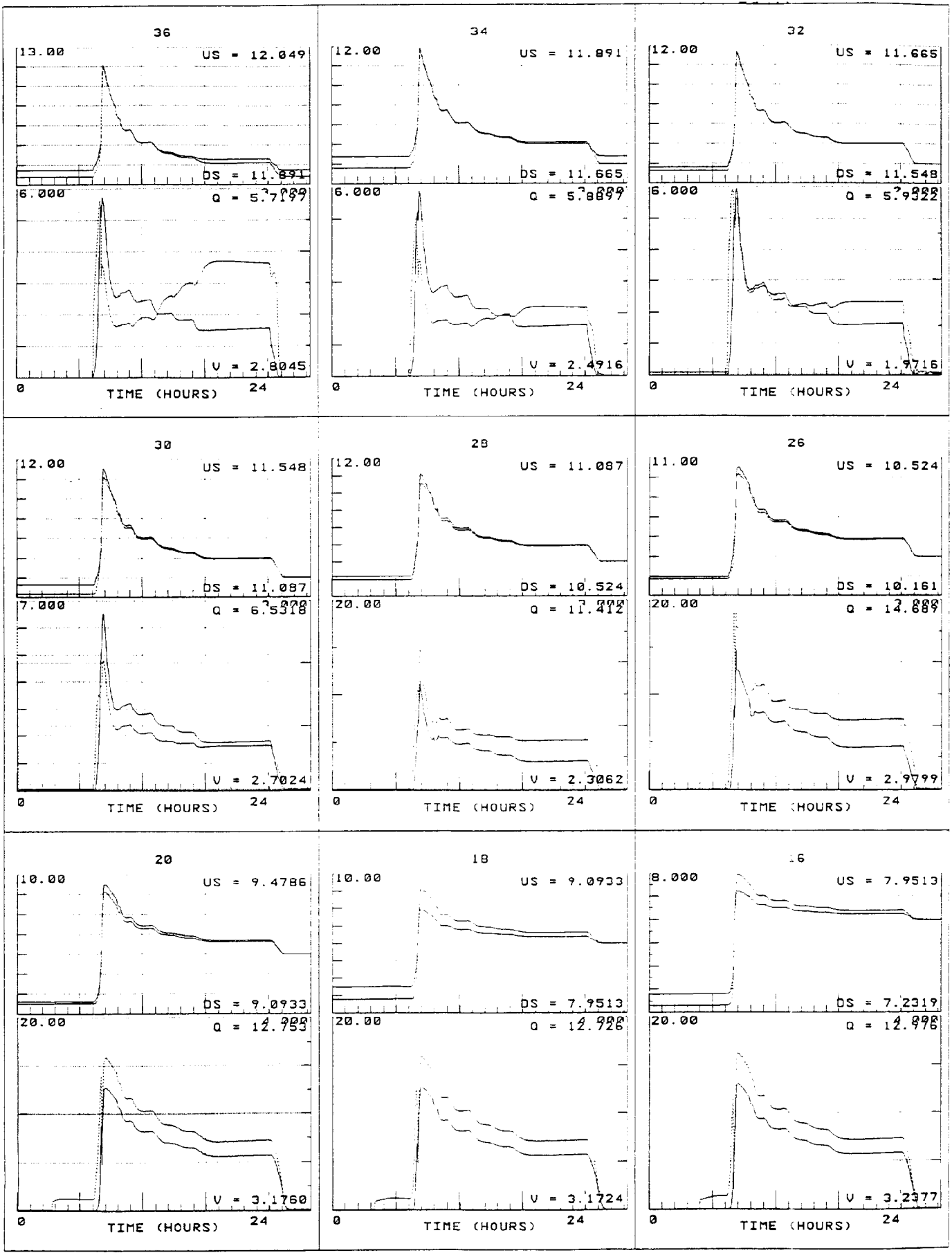
APPENDIX D

Proposed 25 Year Conveyance

APPENDIX D

Proposed 25 Year Conveyance

South Conveyance System



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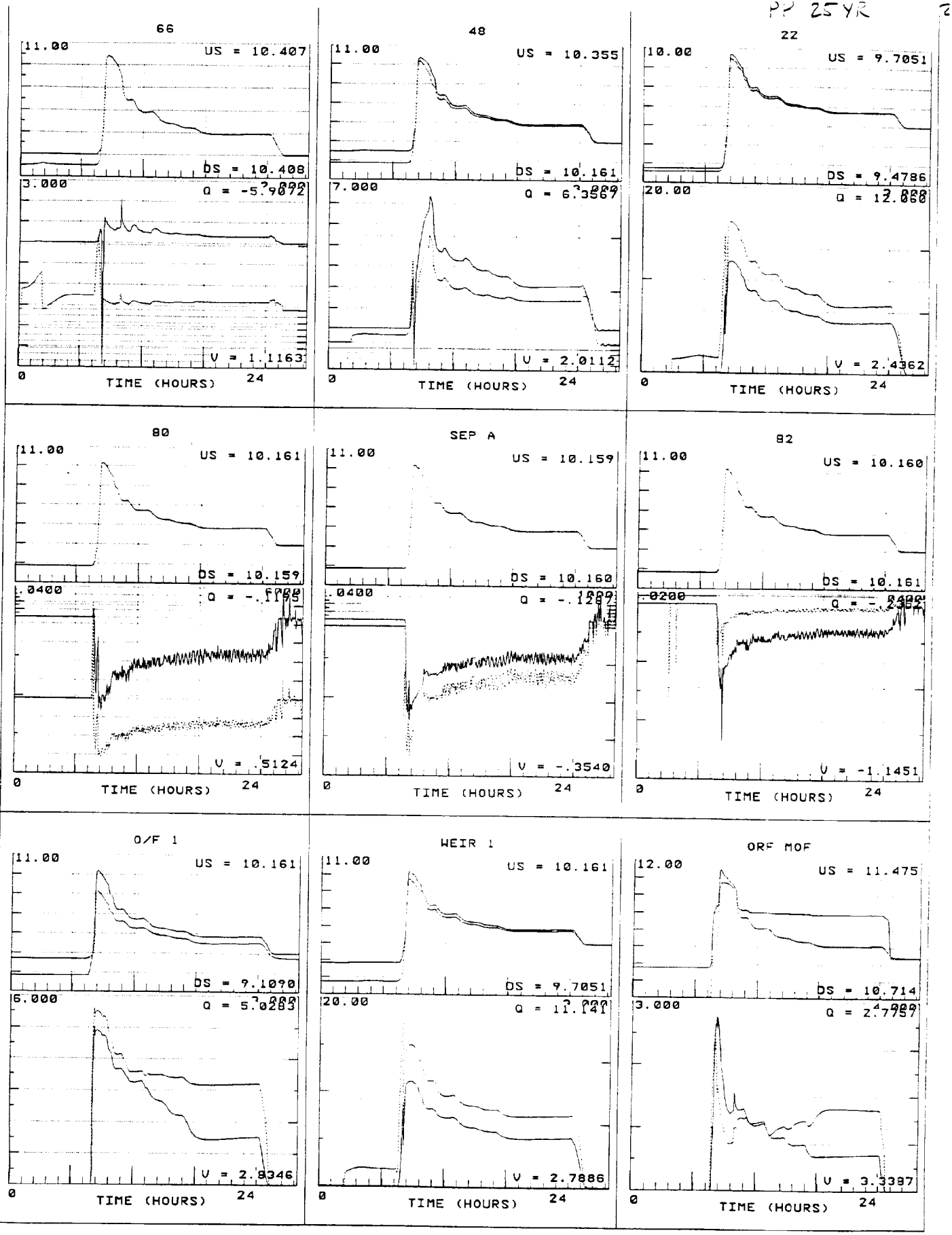
PP 25YR



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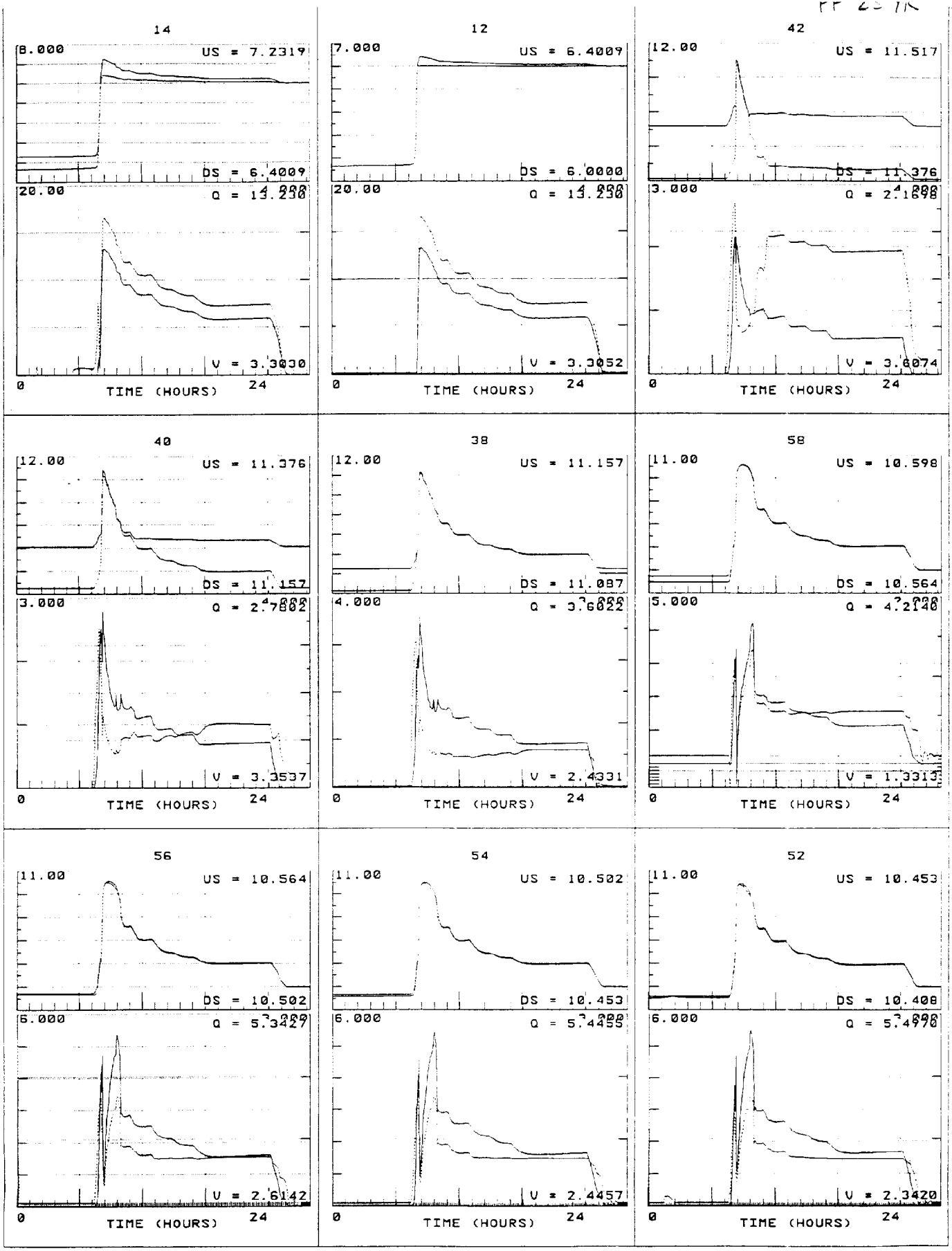

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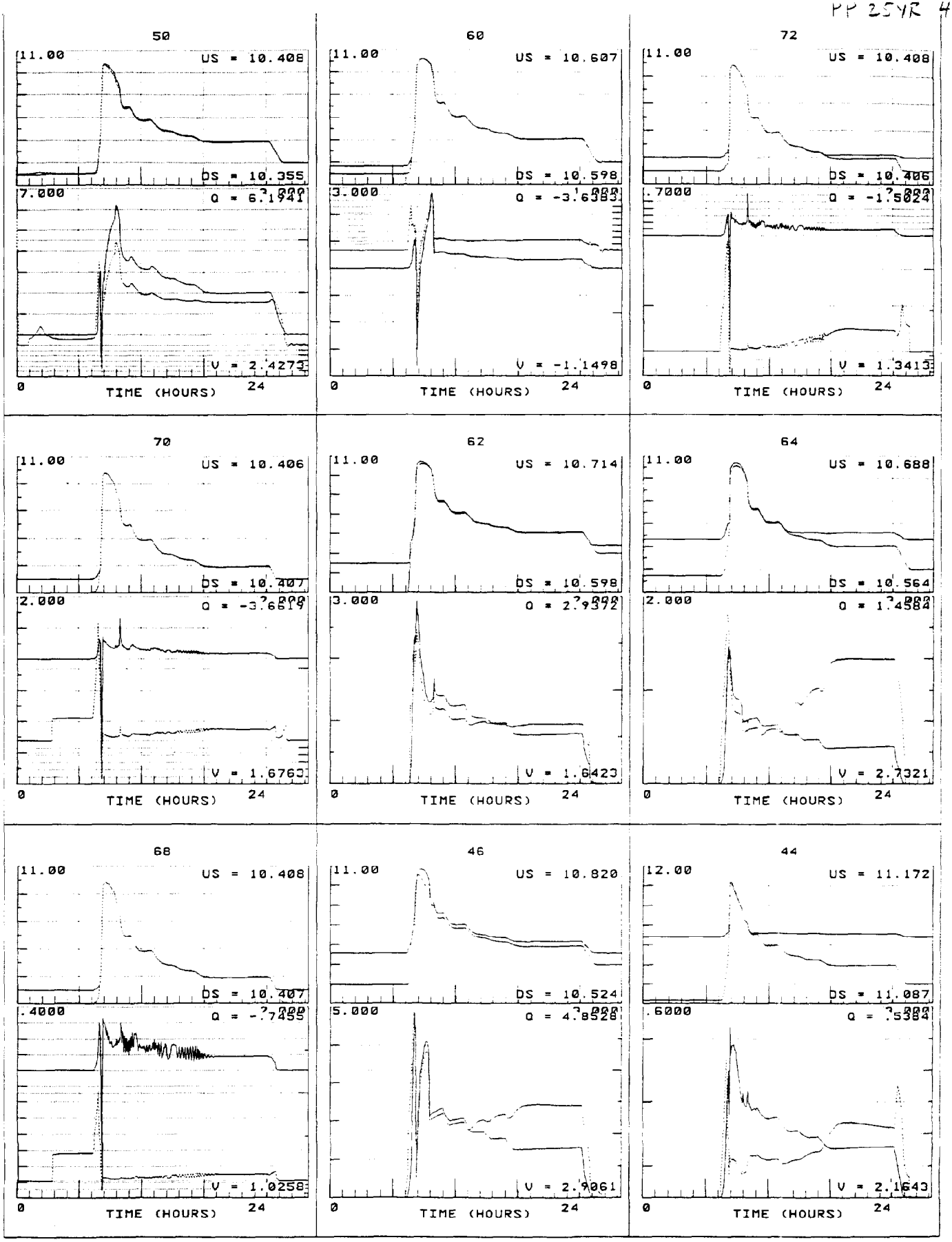
PP 25YR 4



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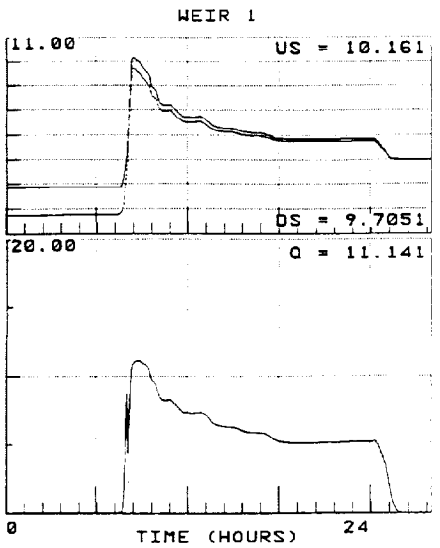
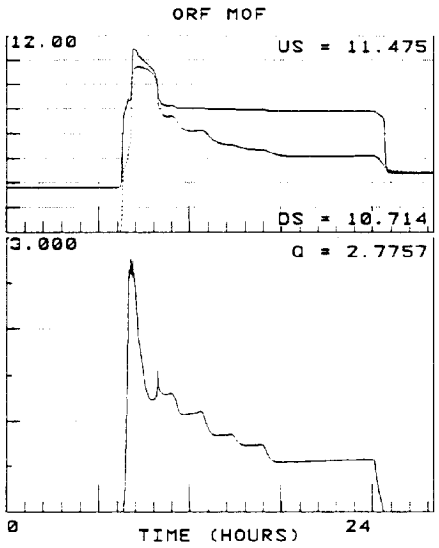
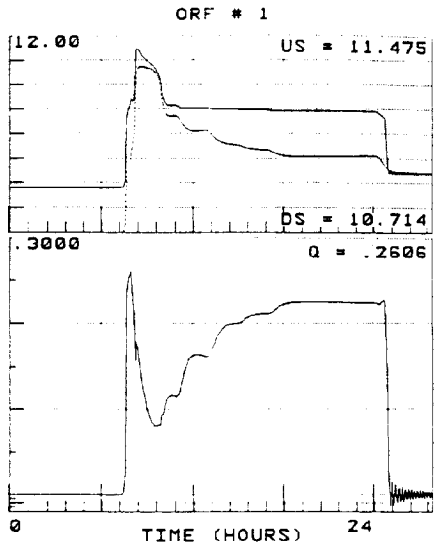
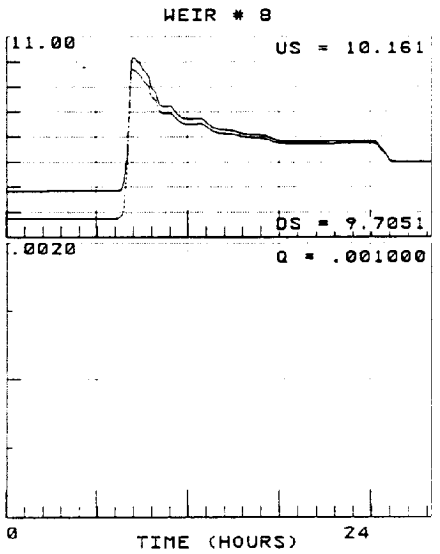








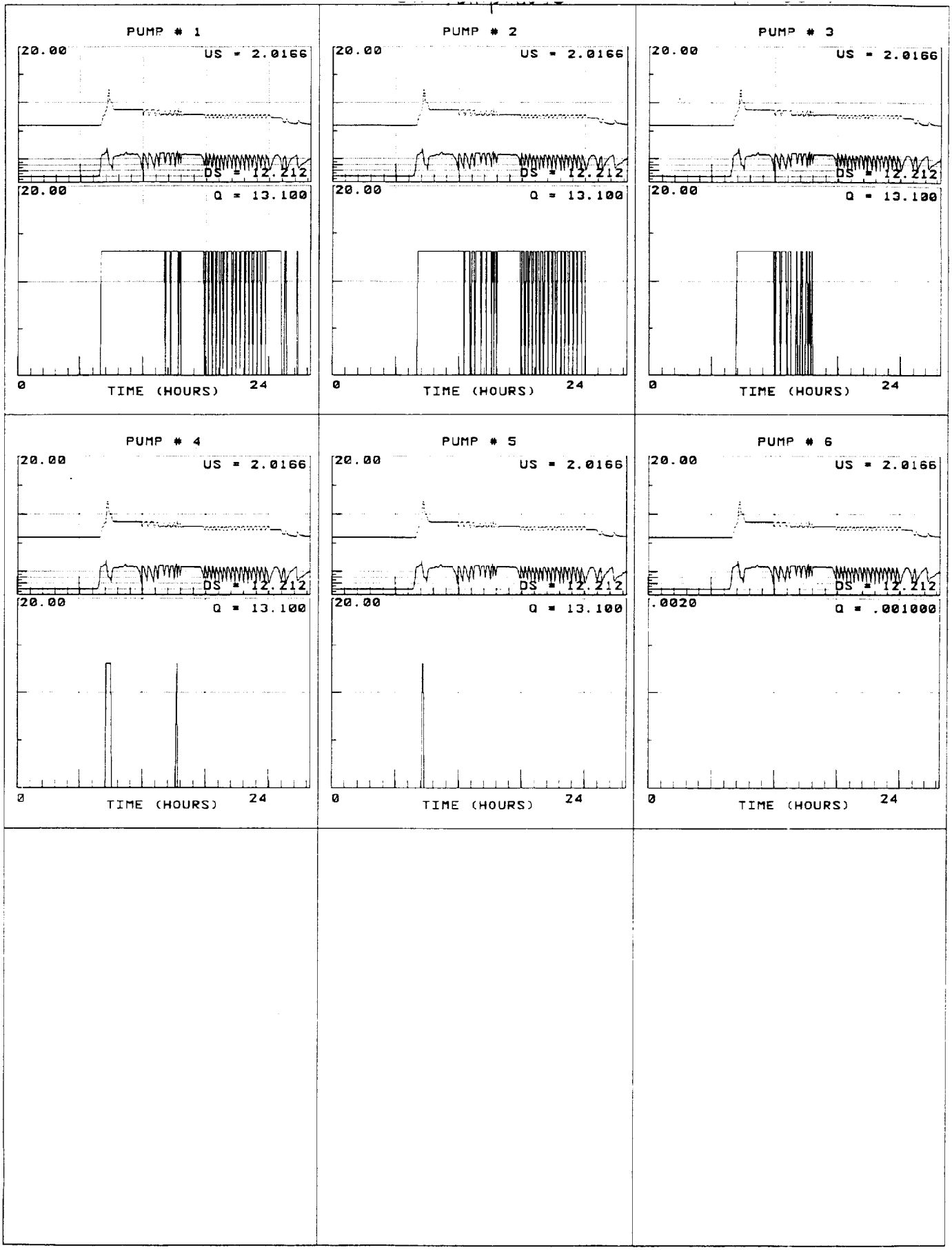
KCSlip4 35421

SEA401966

APPENDIX D

Proposed 25 Year Conveyance

Southwest Pump System



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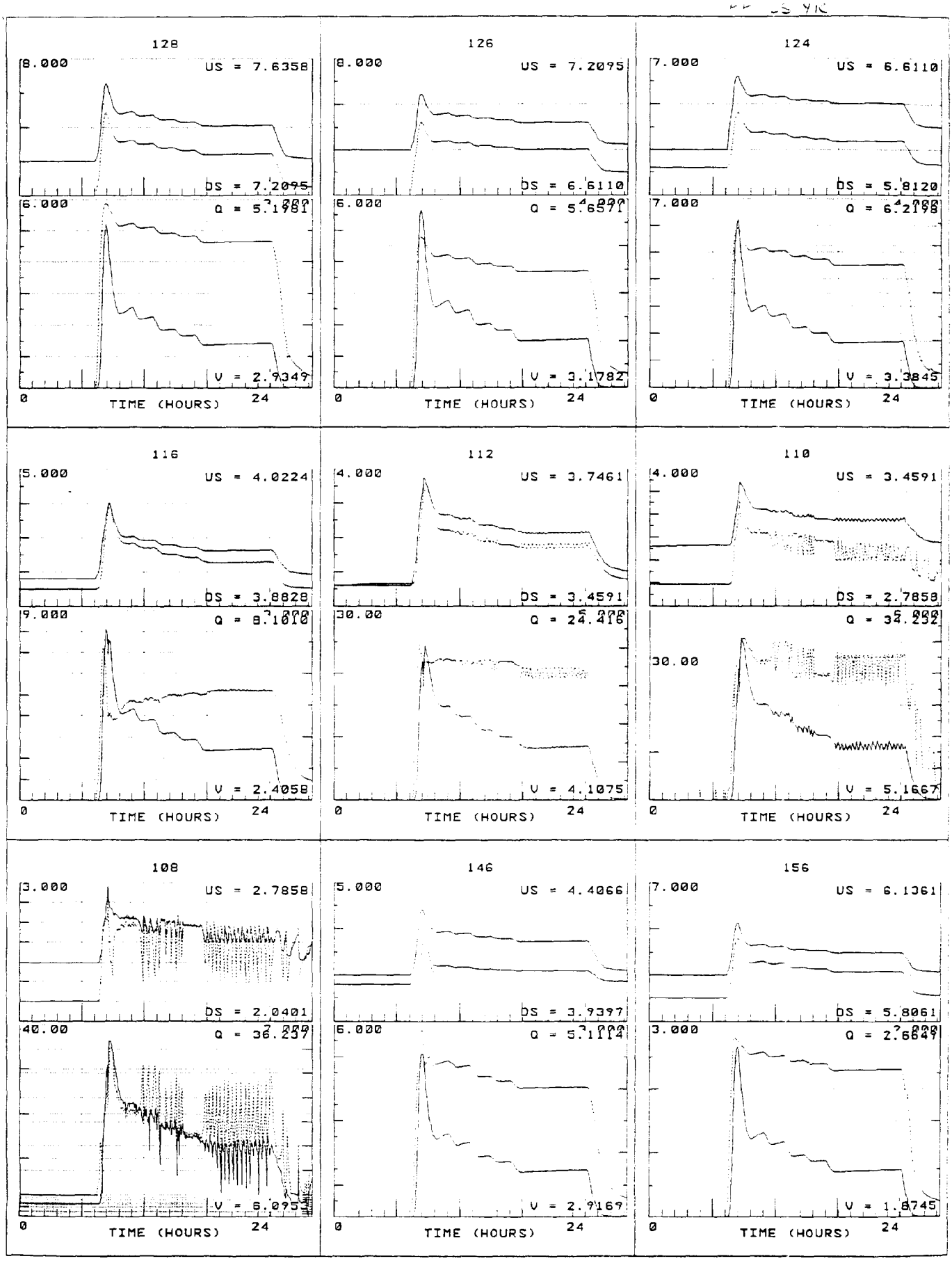

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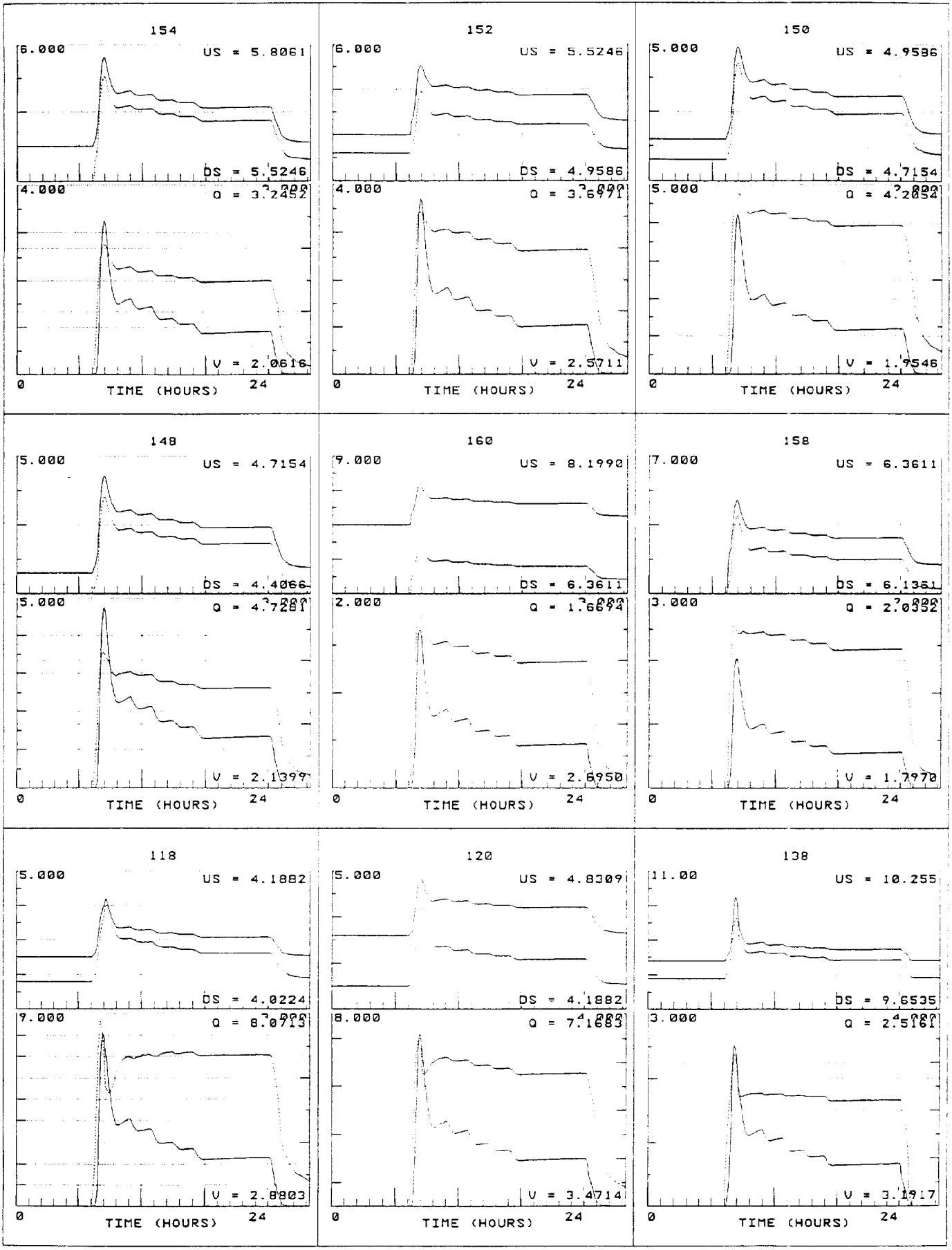

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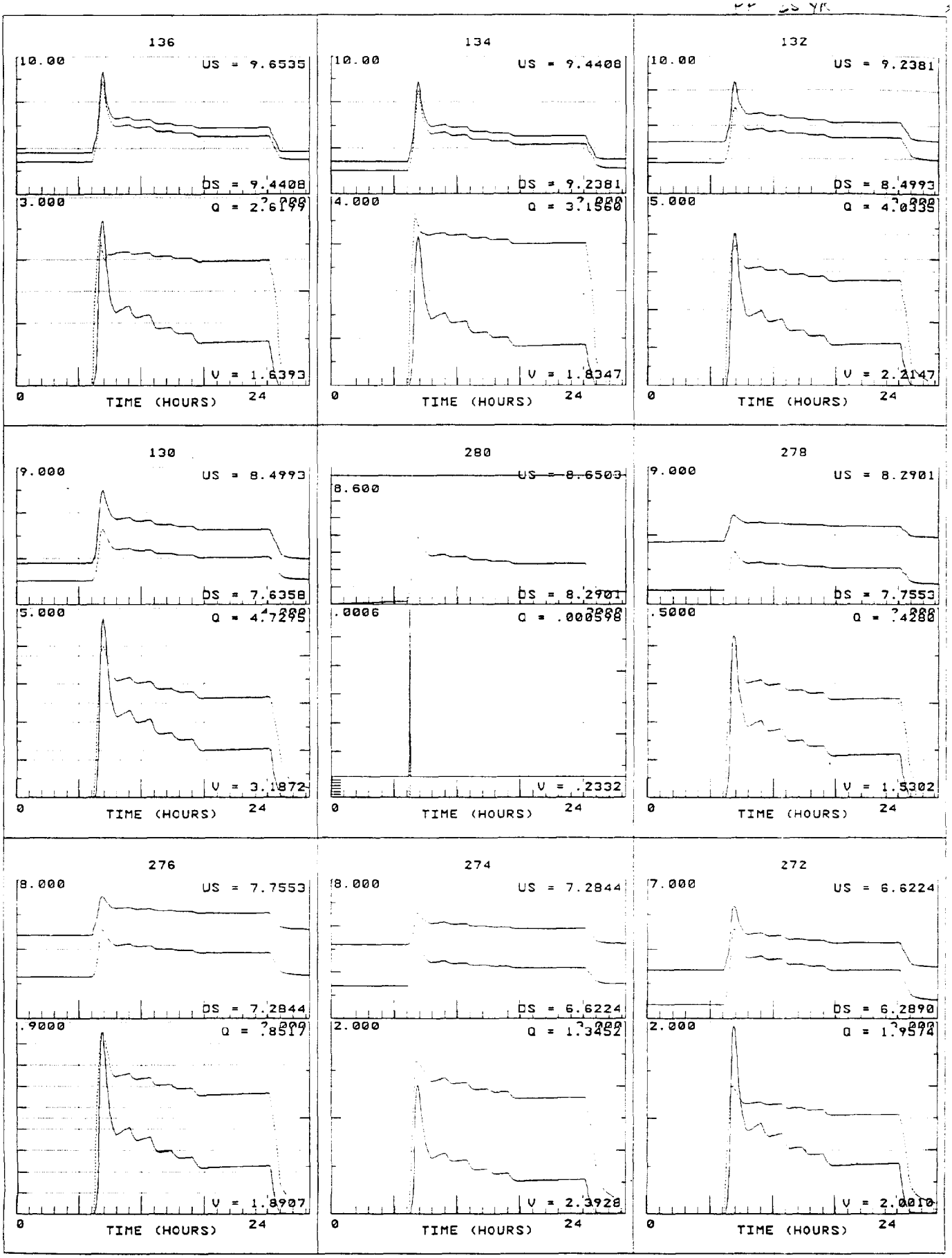

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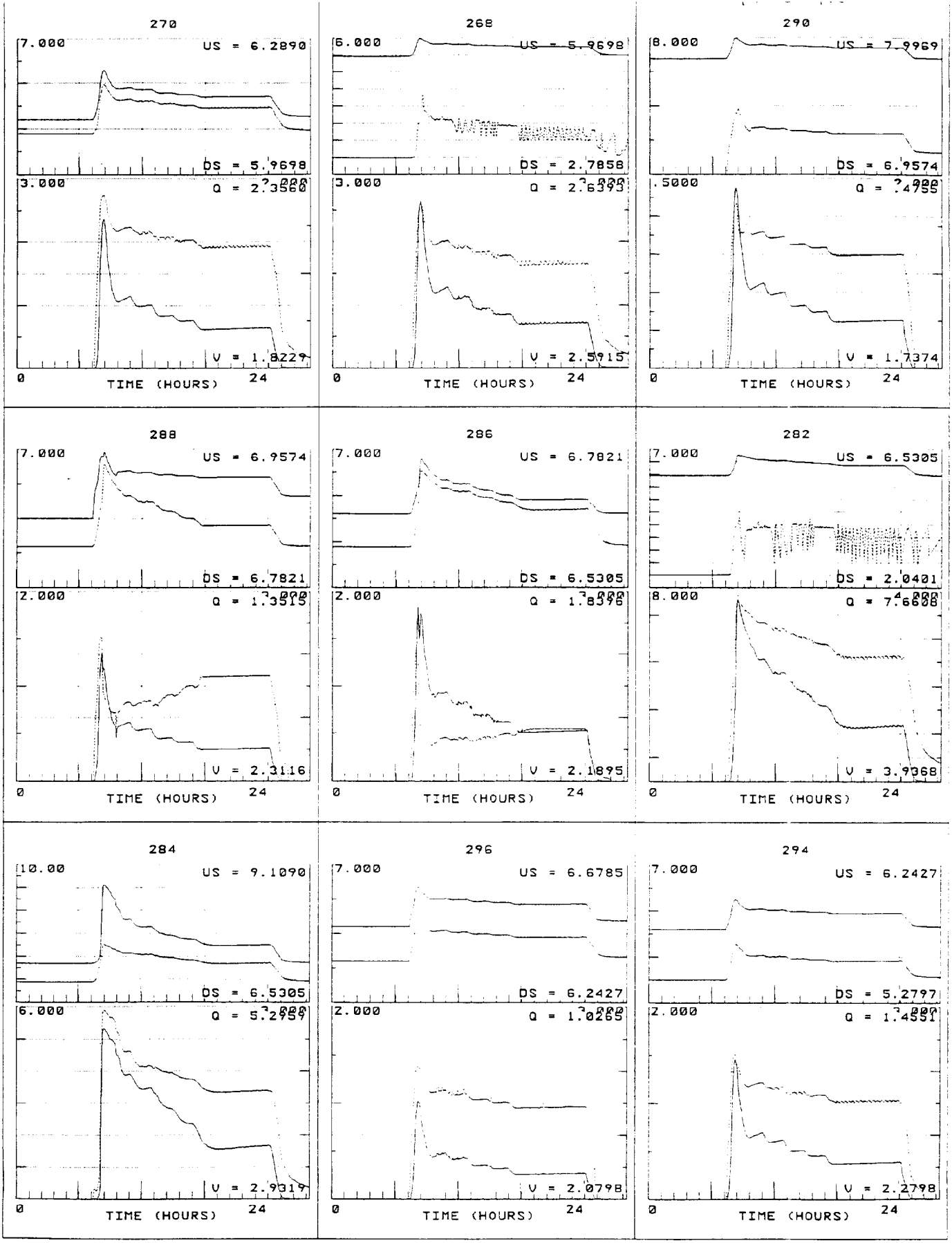

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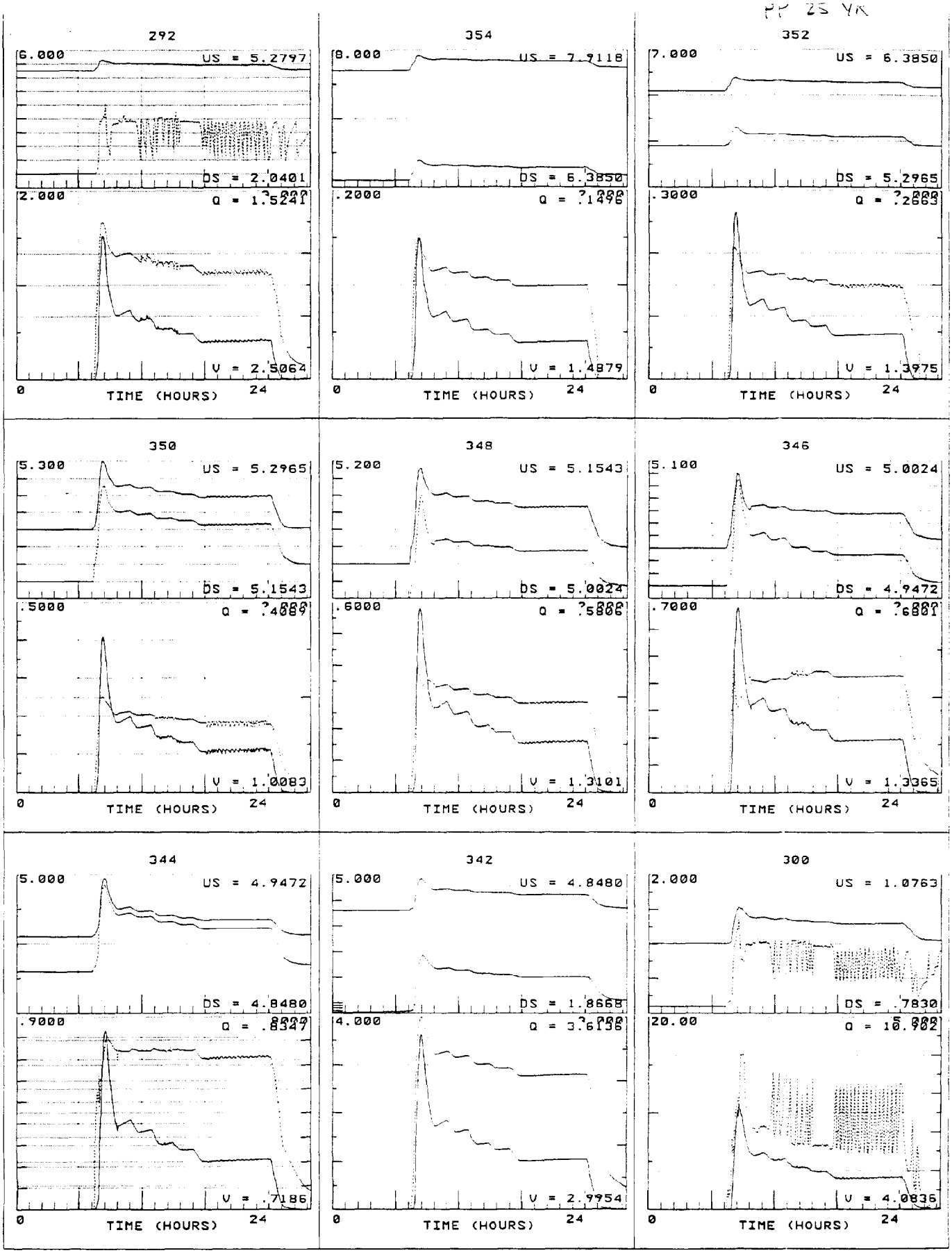
PP 25 YR



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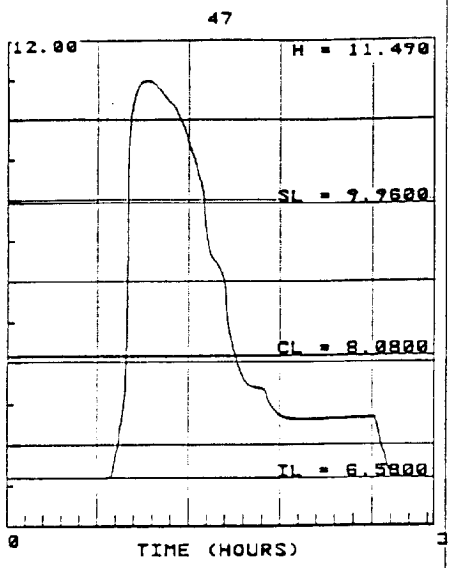
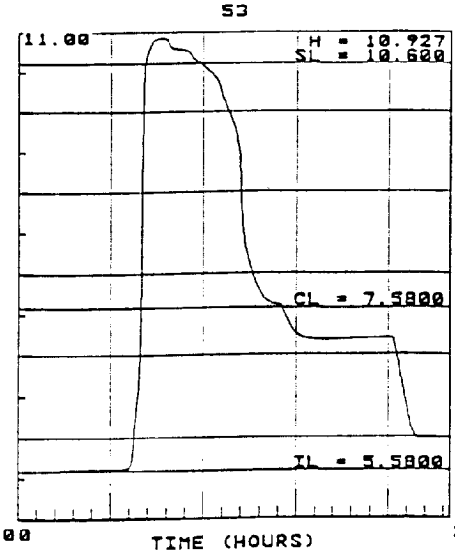
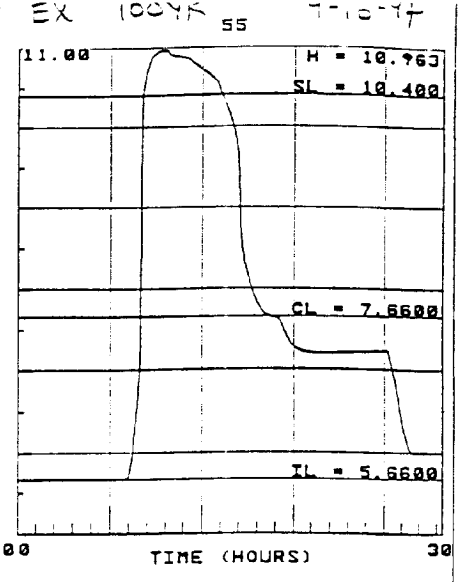
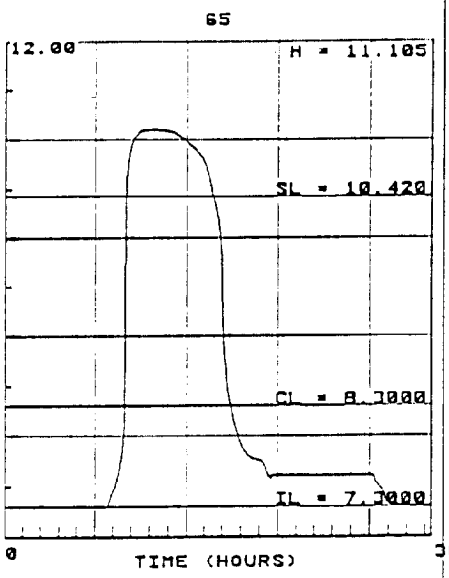
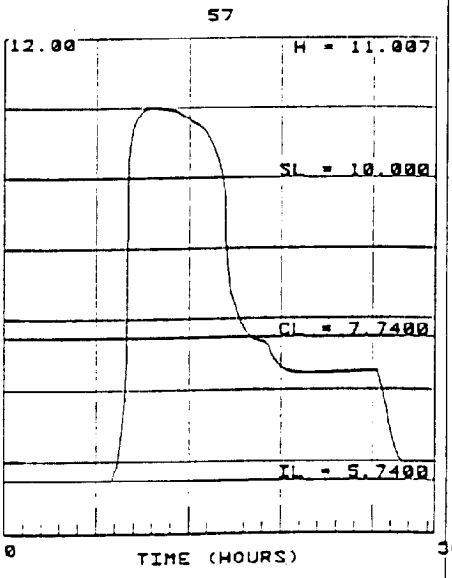
EX 100YR 7-10-94

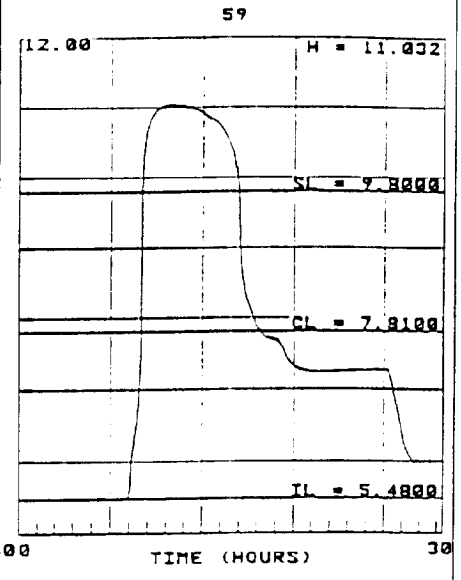


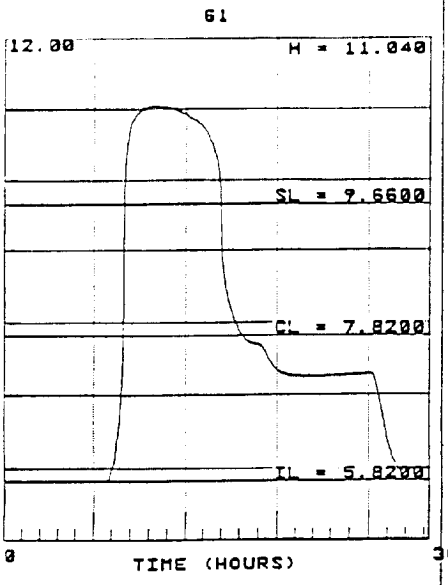


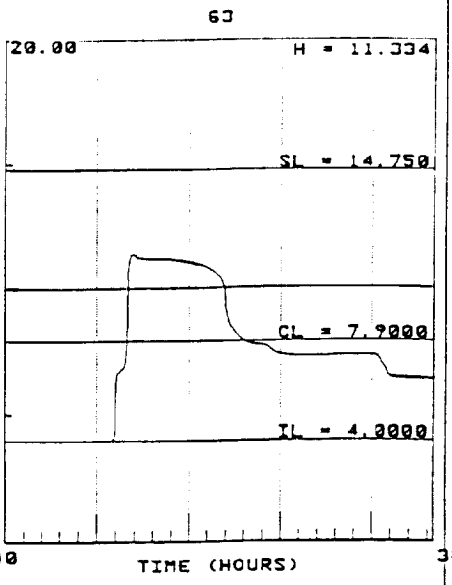


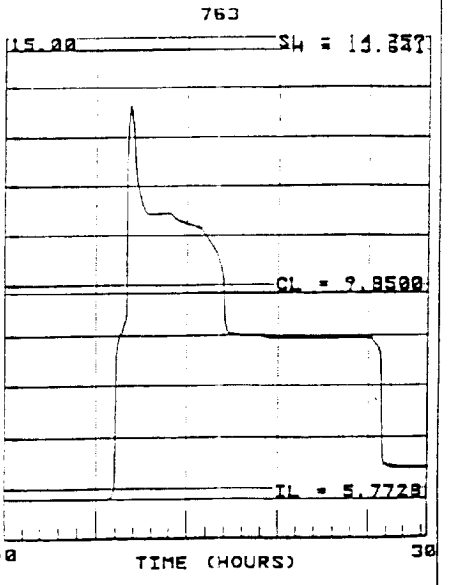












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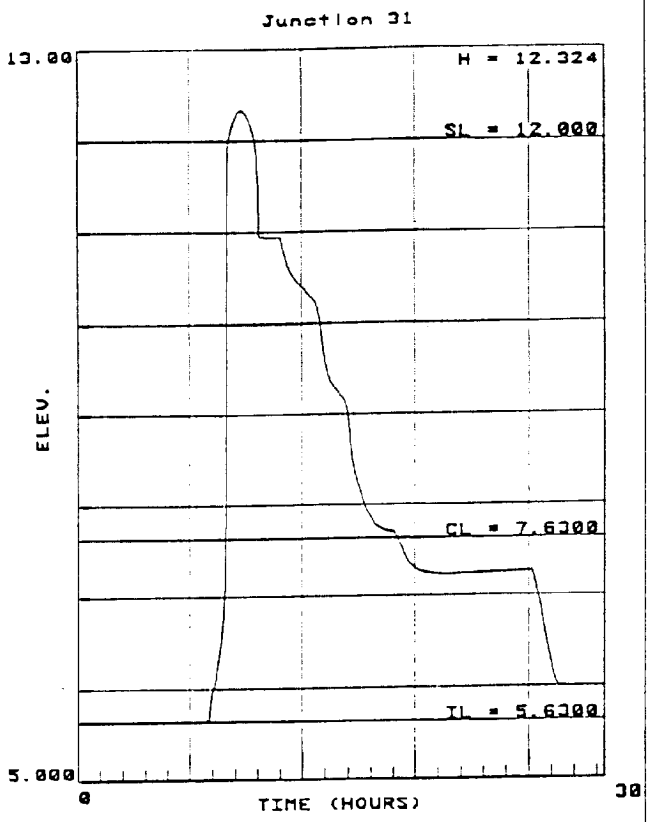

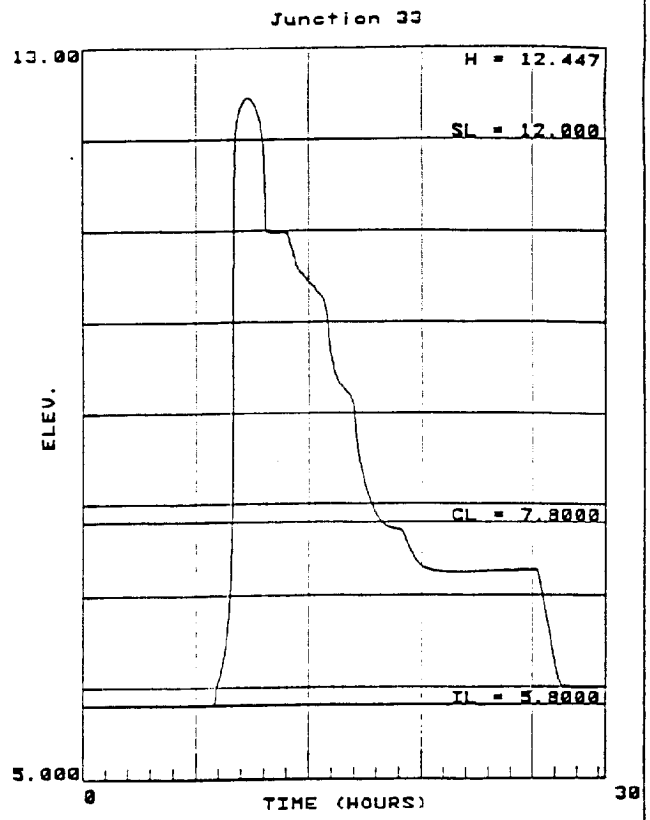

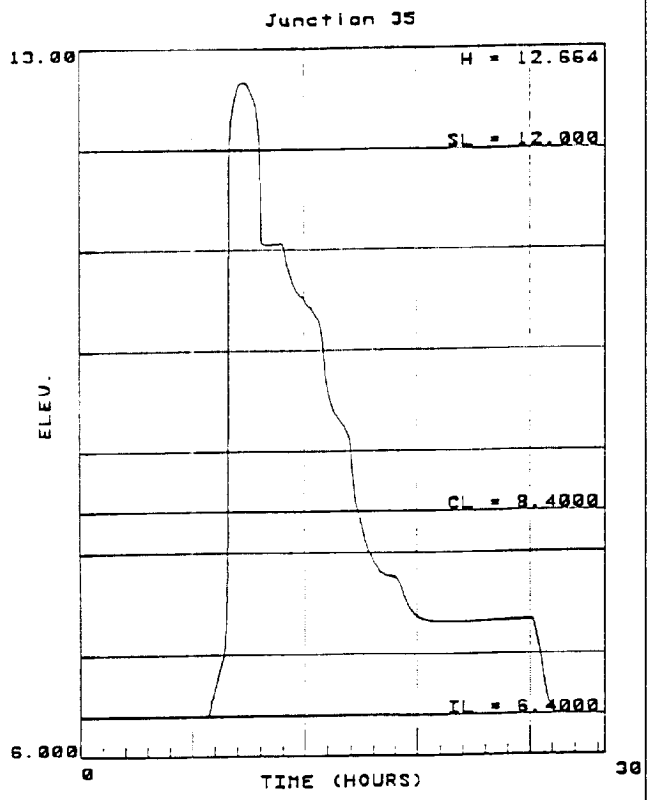

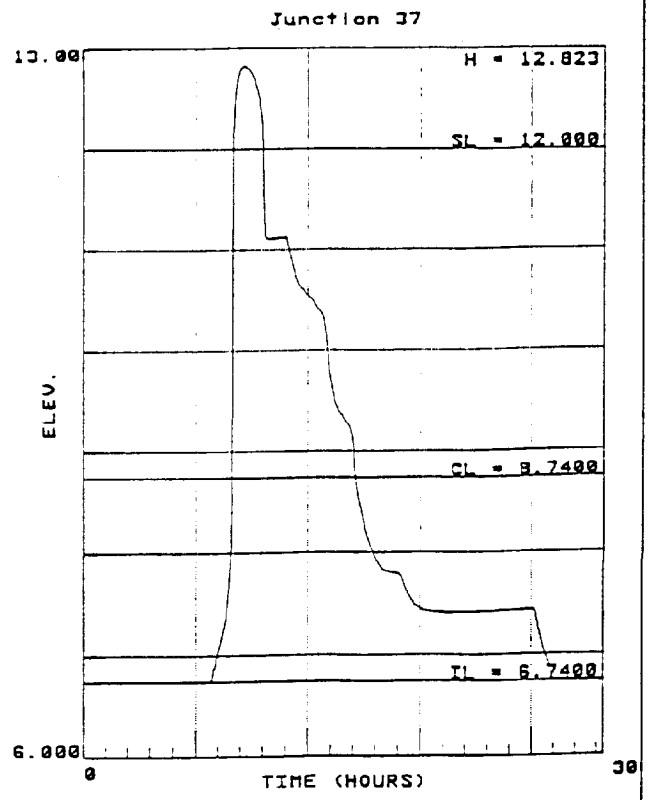

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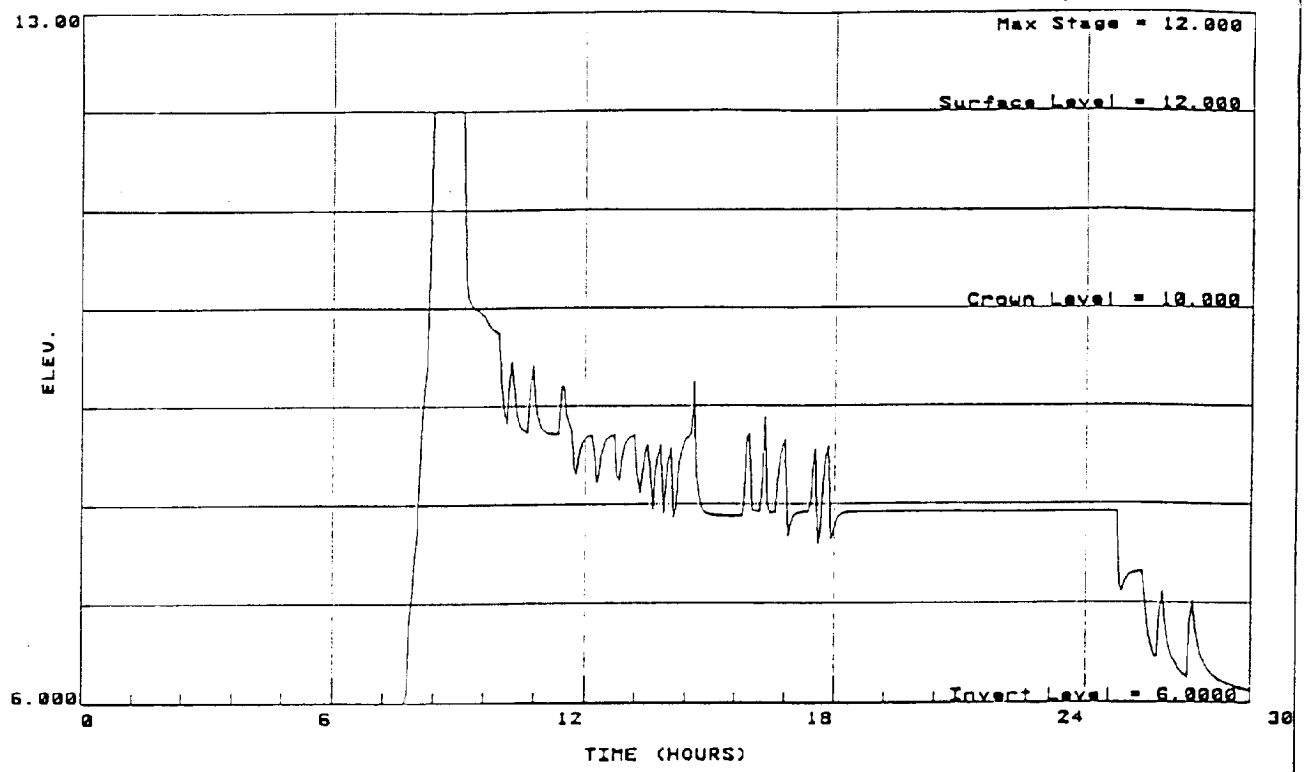

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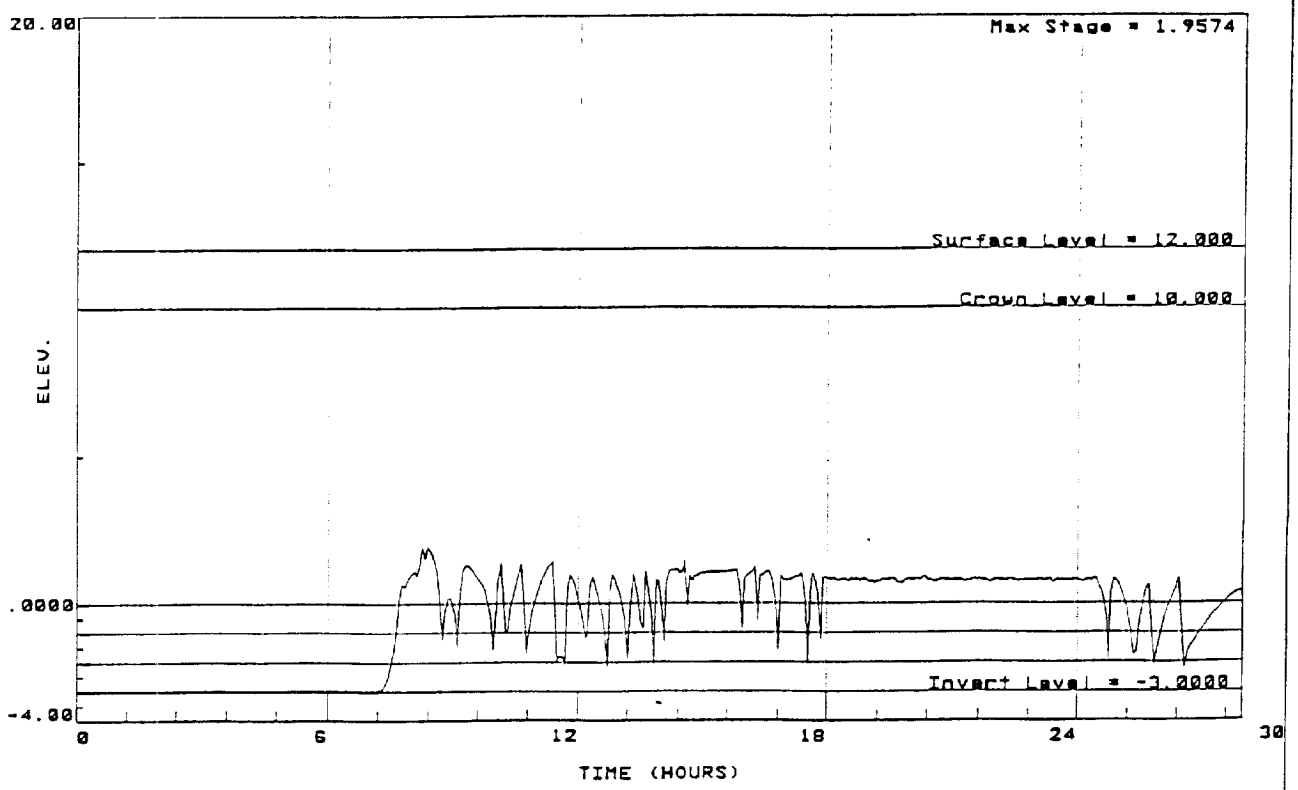

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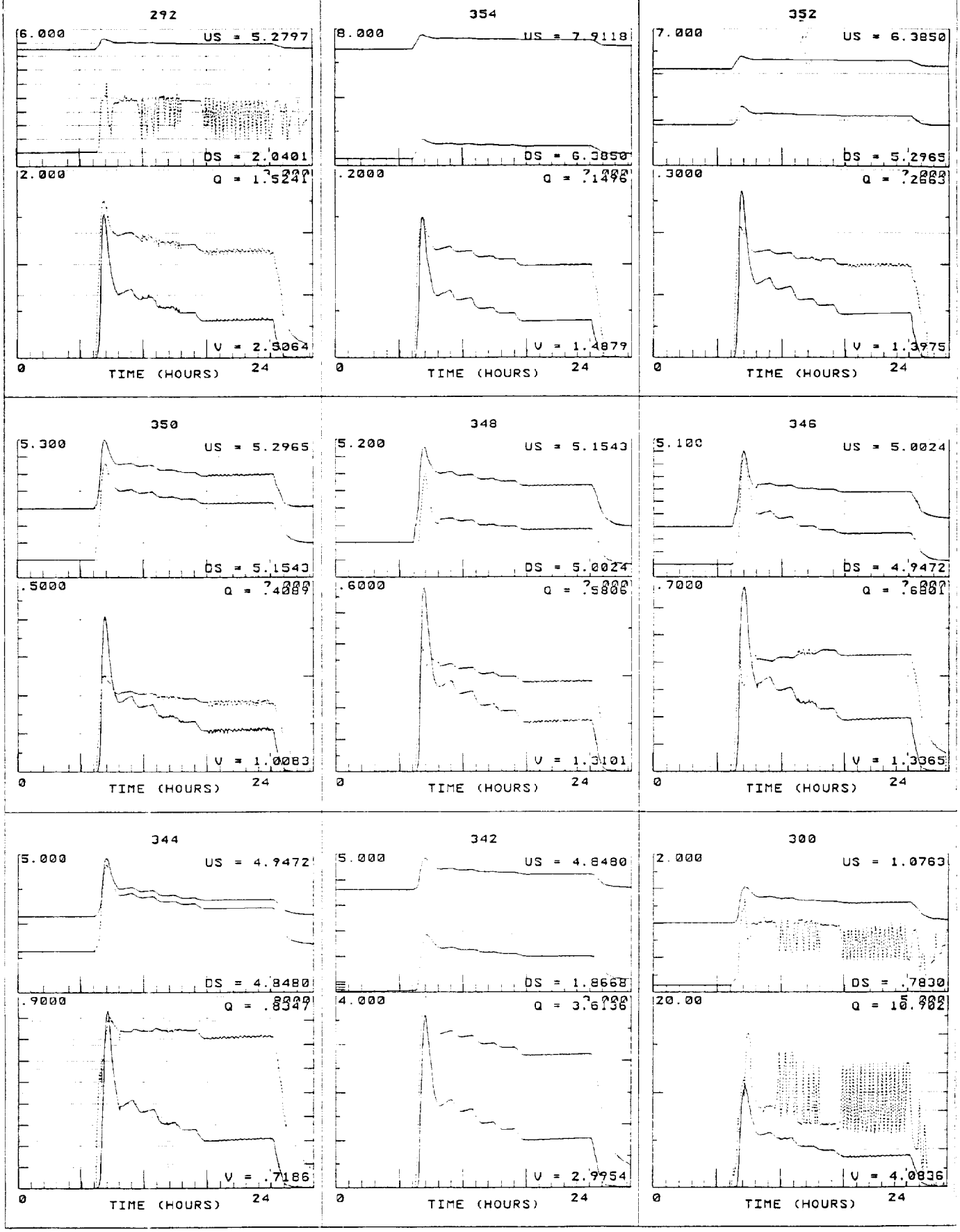

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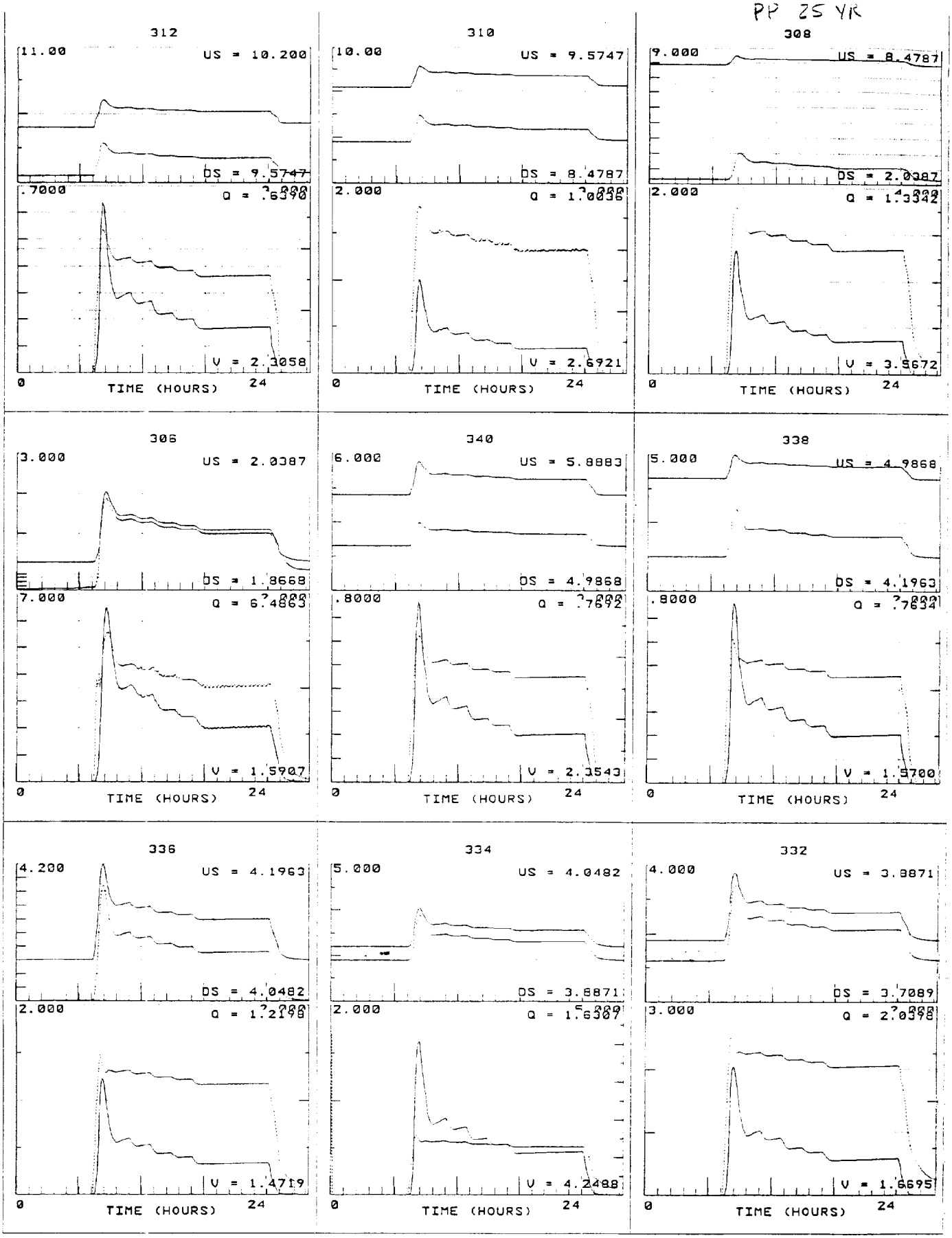

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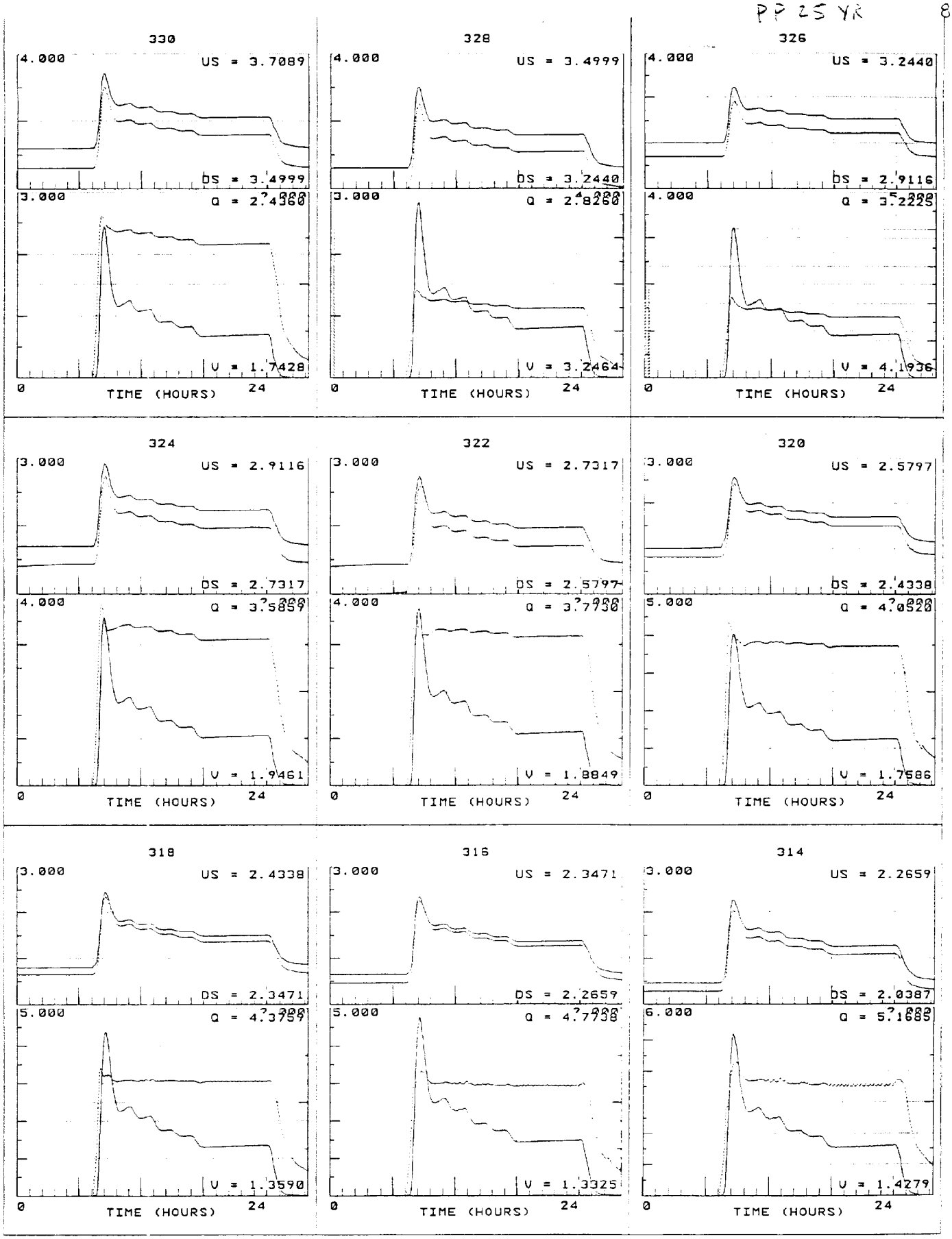

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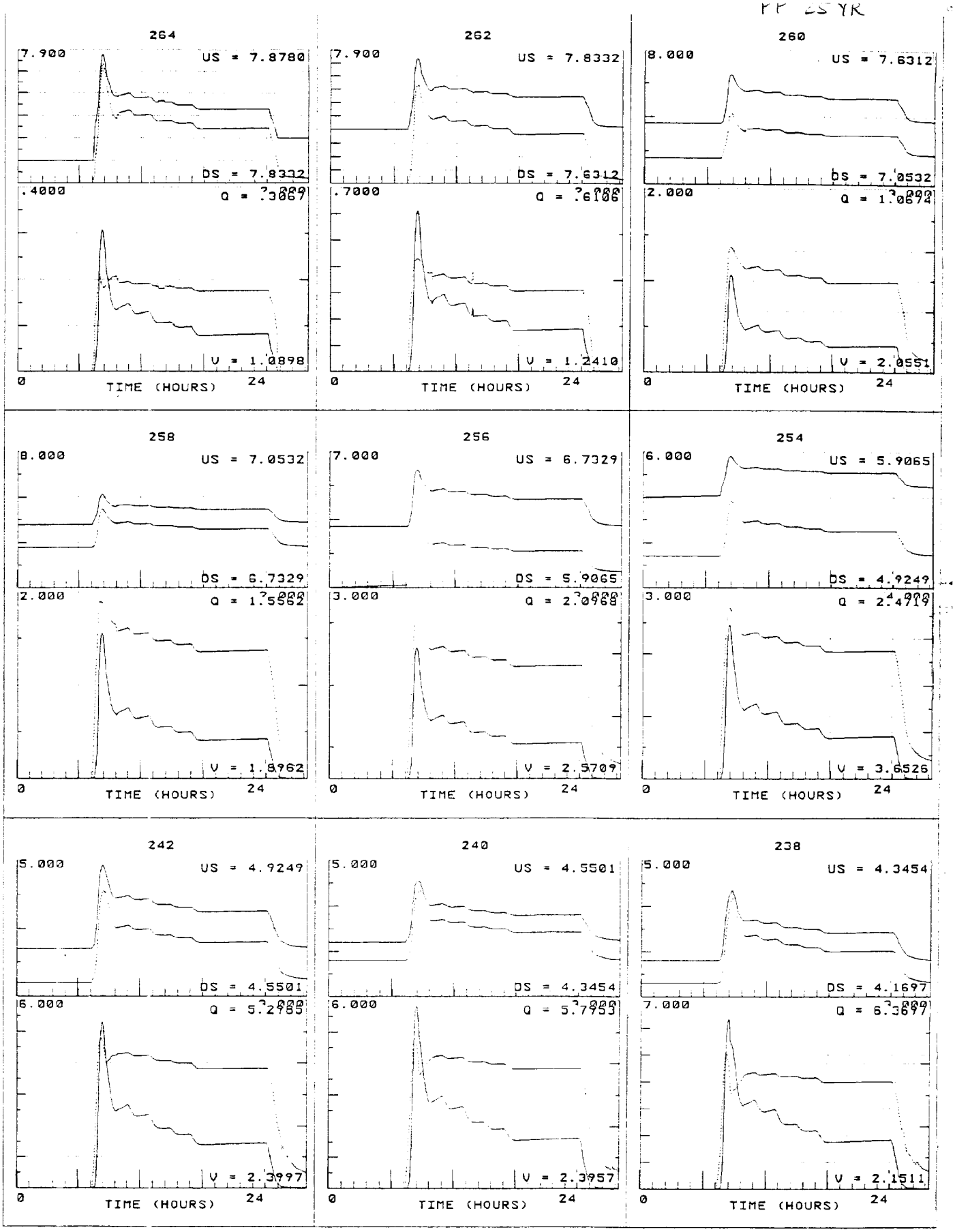

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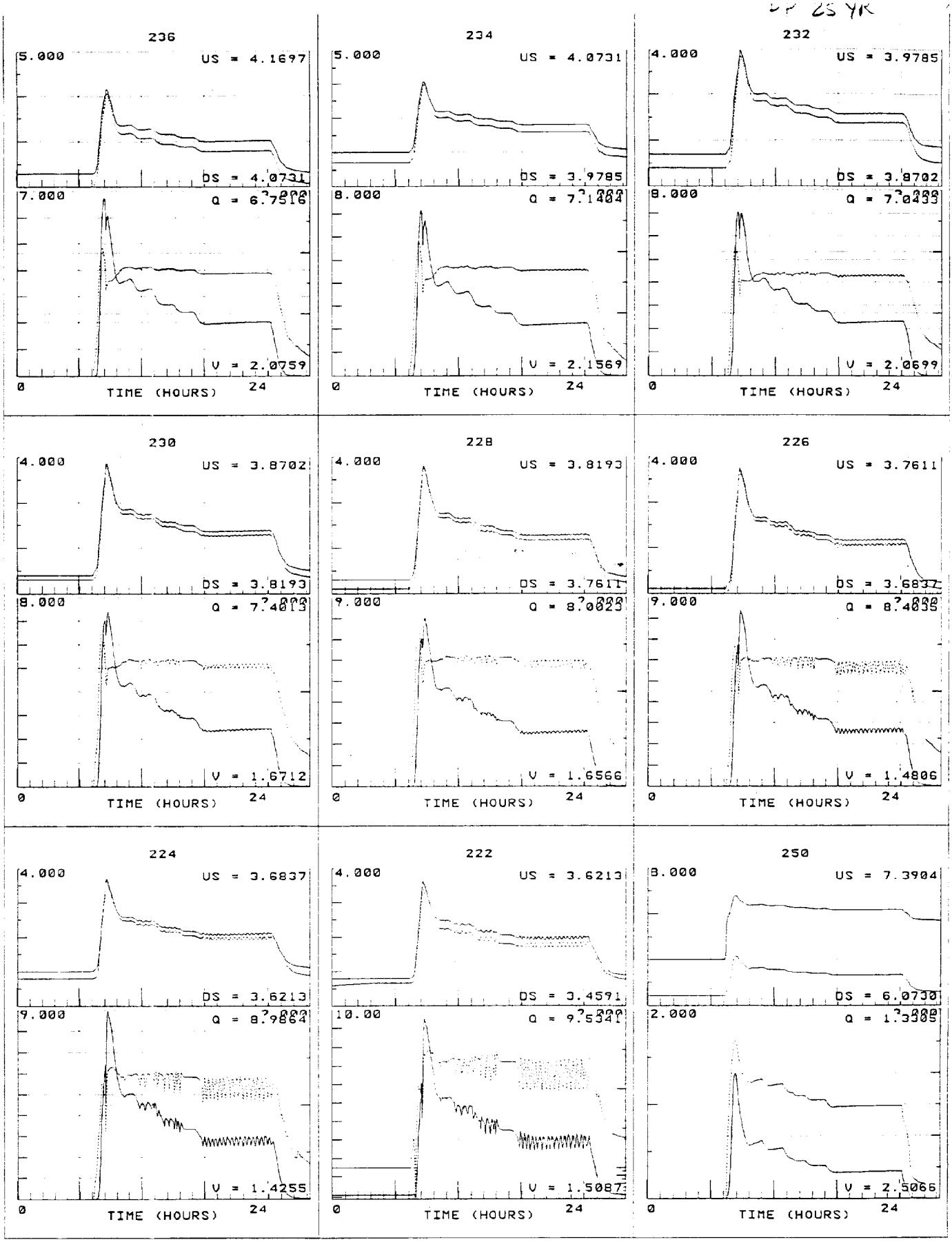

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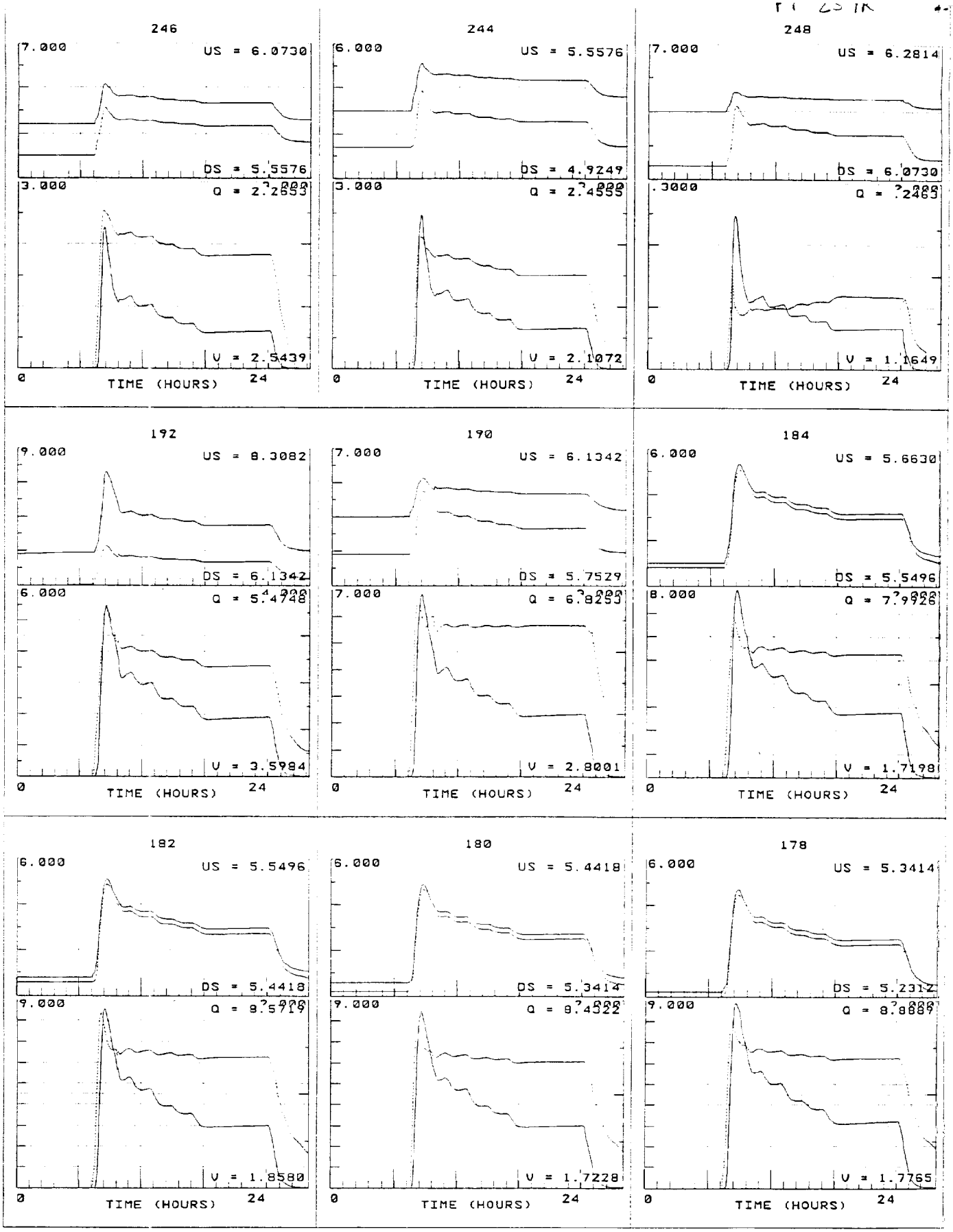

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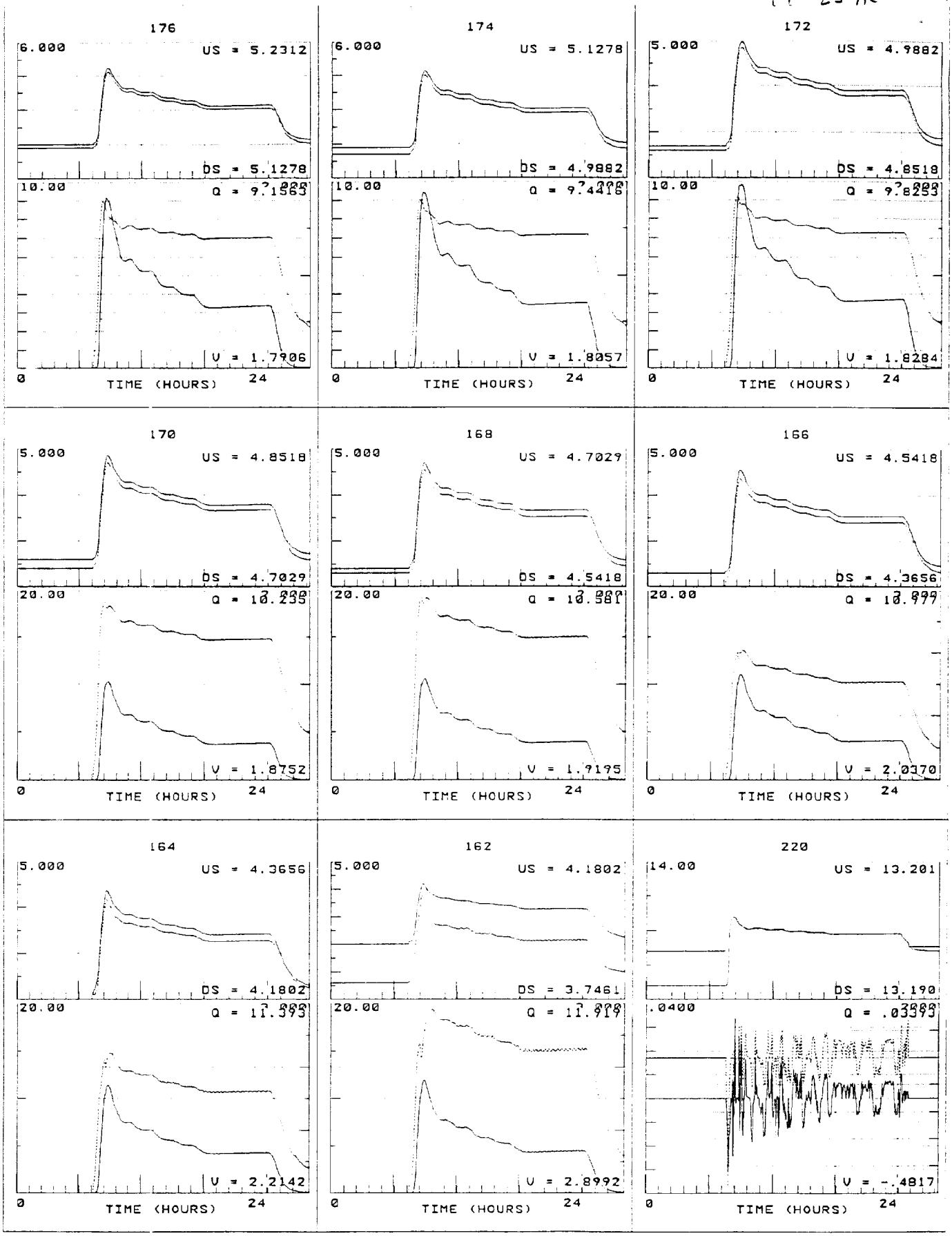

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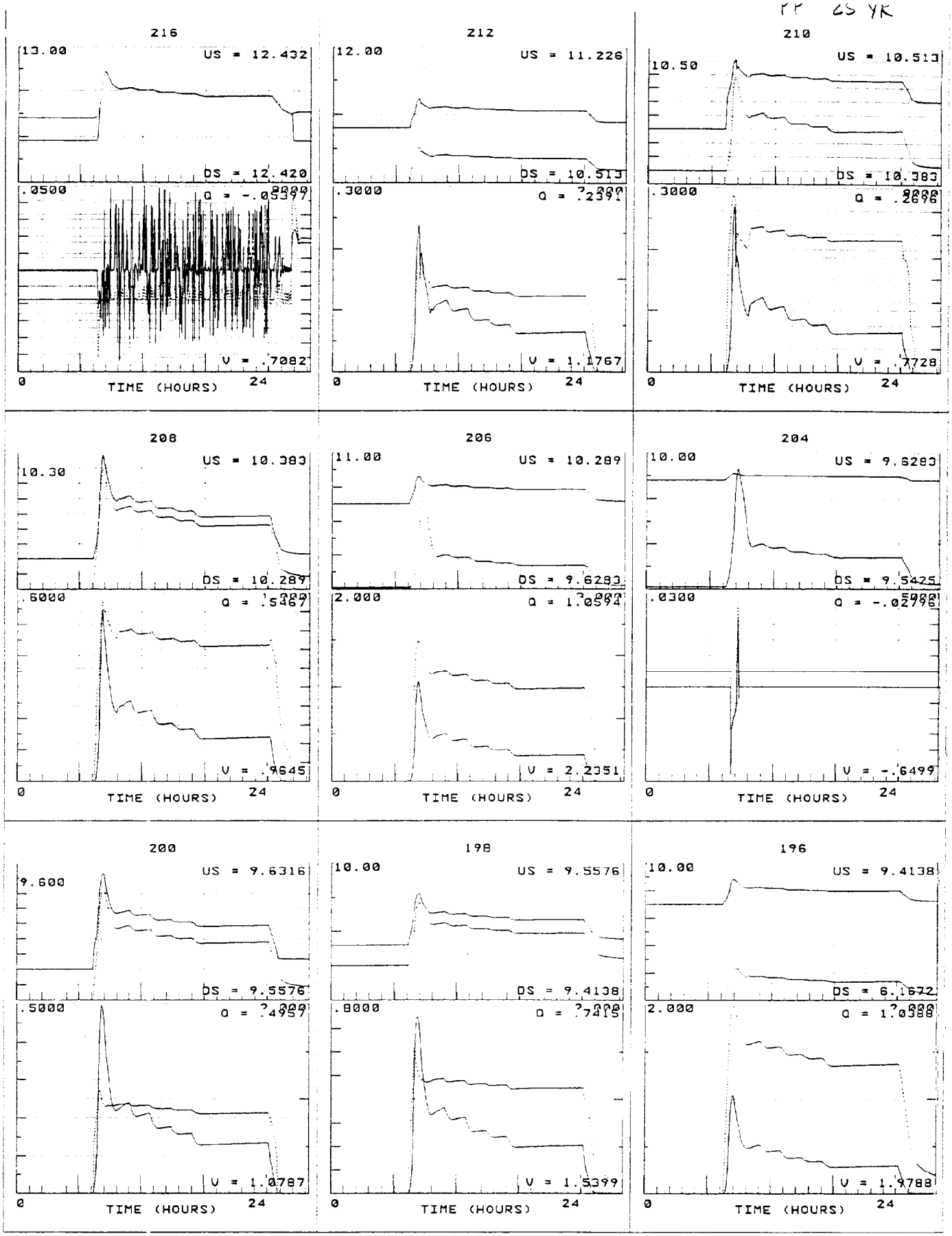

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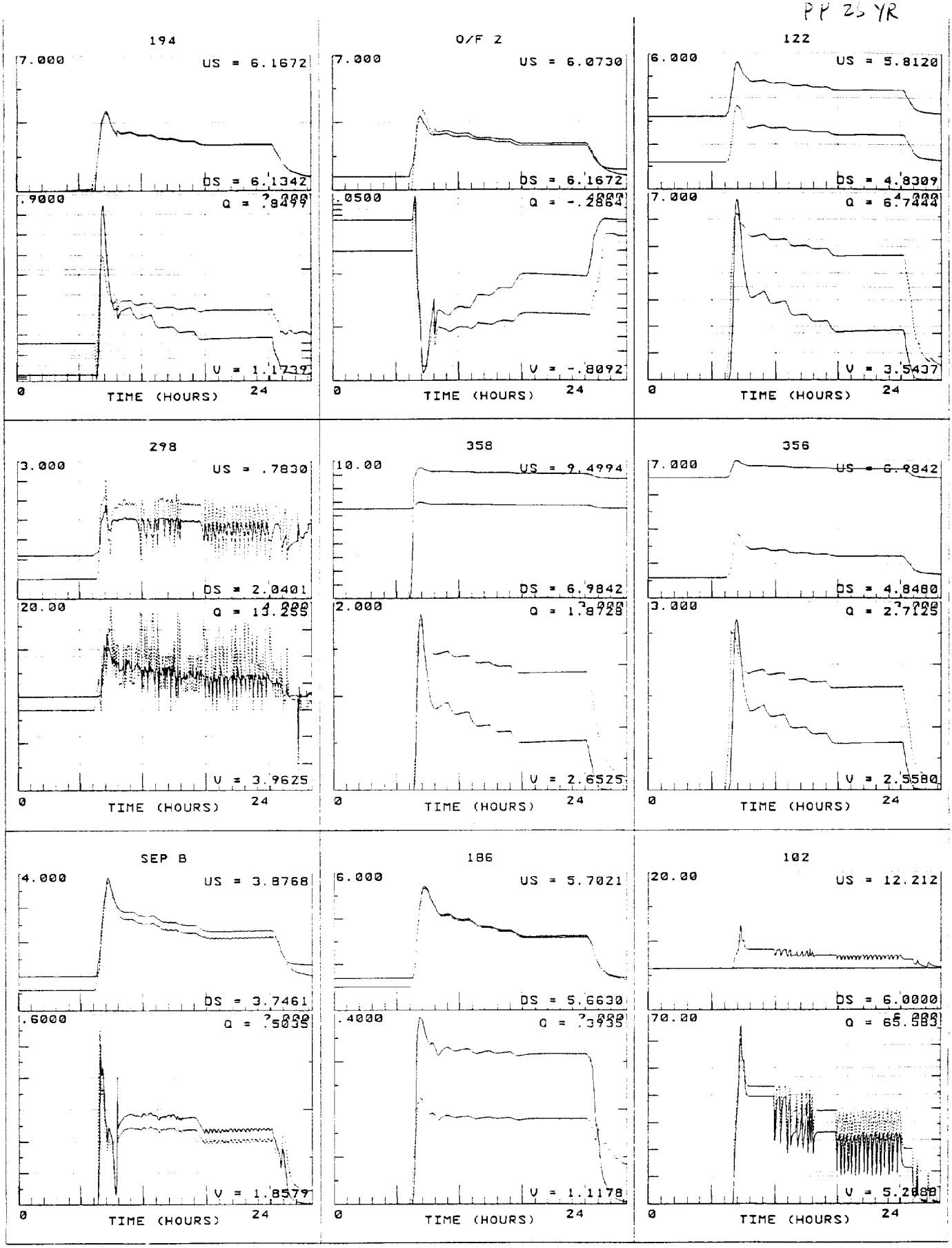

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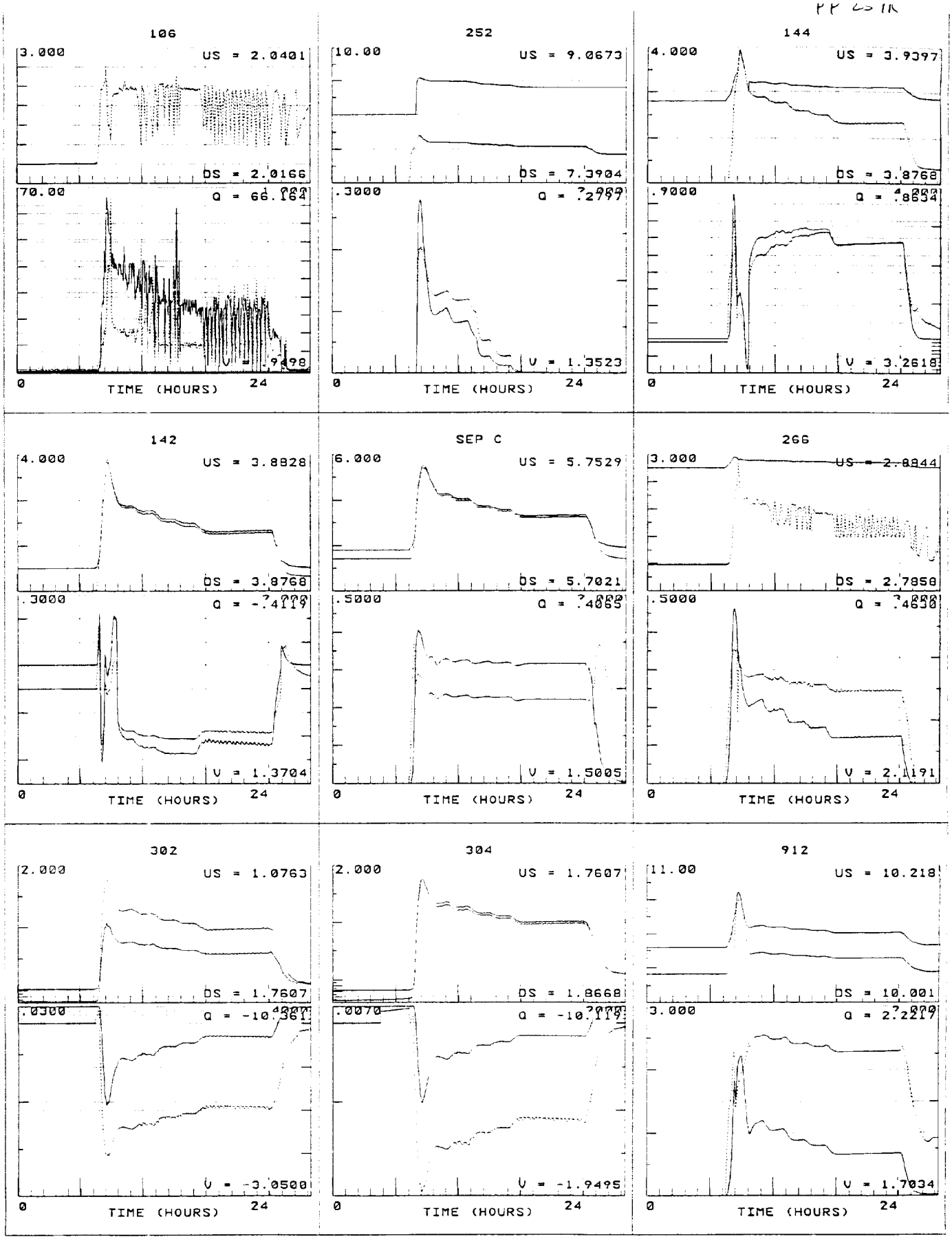

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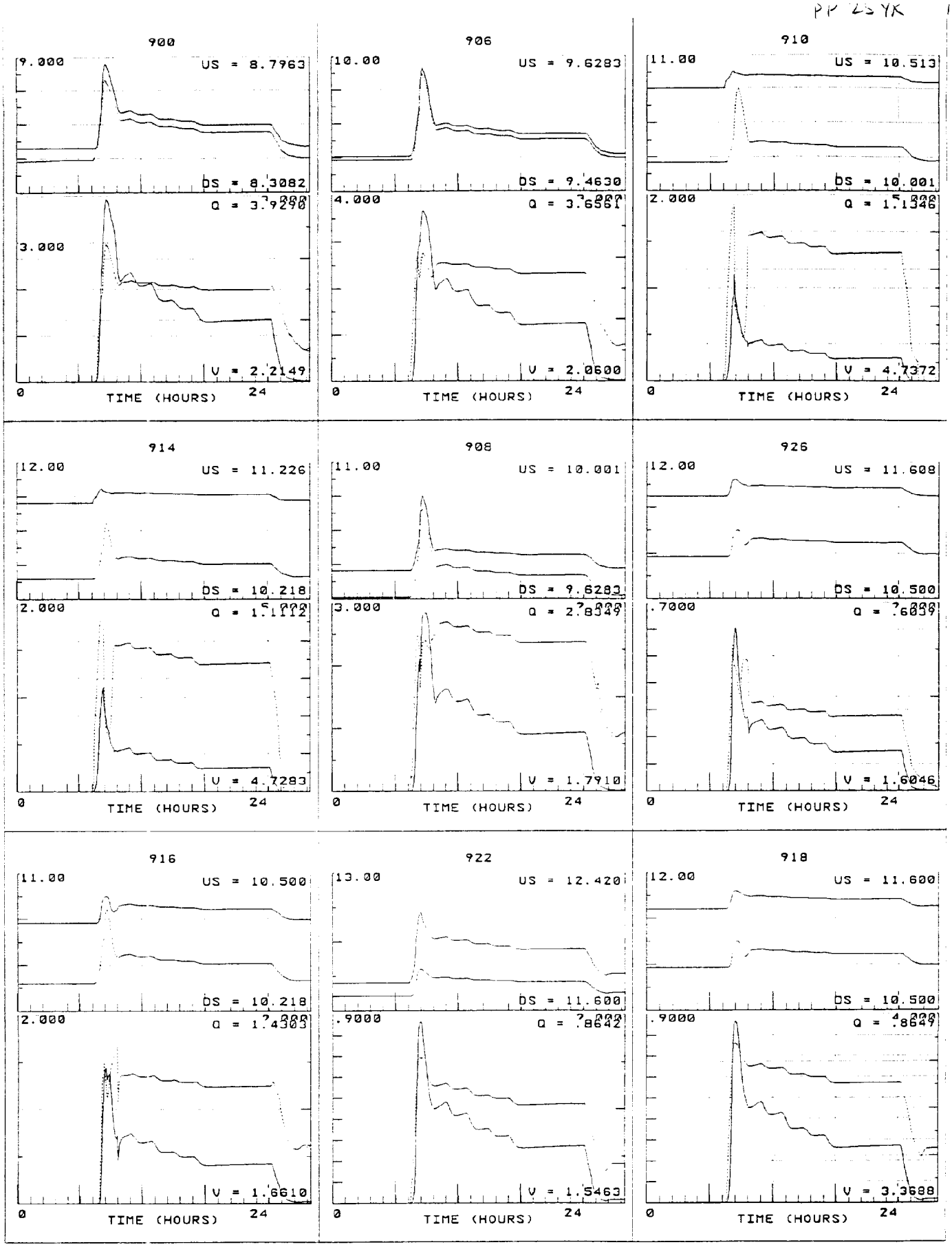
PP 25YR



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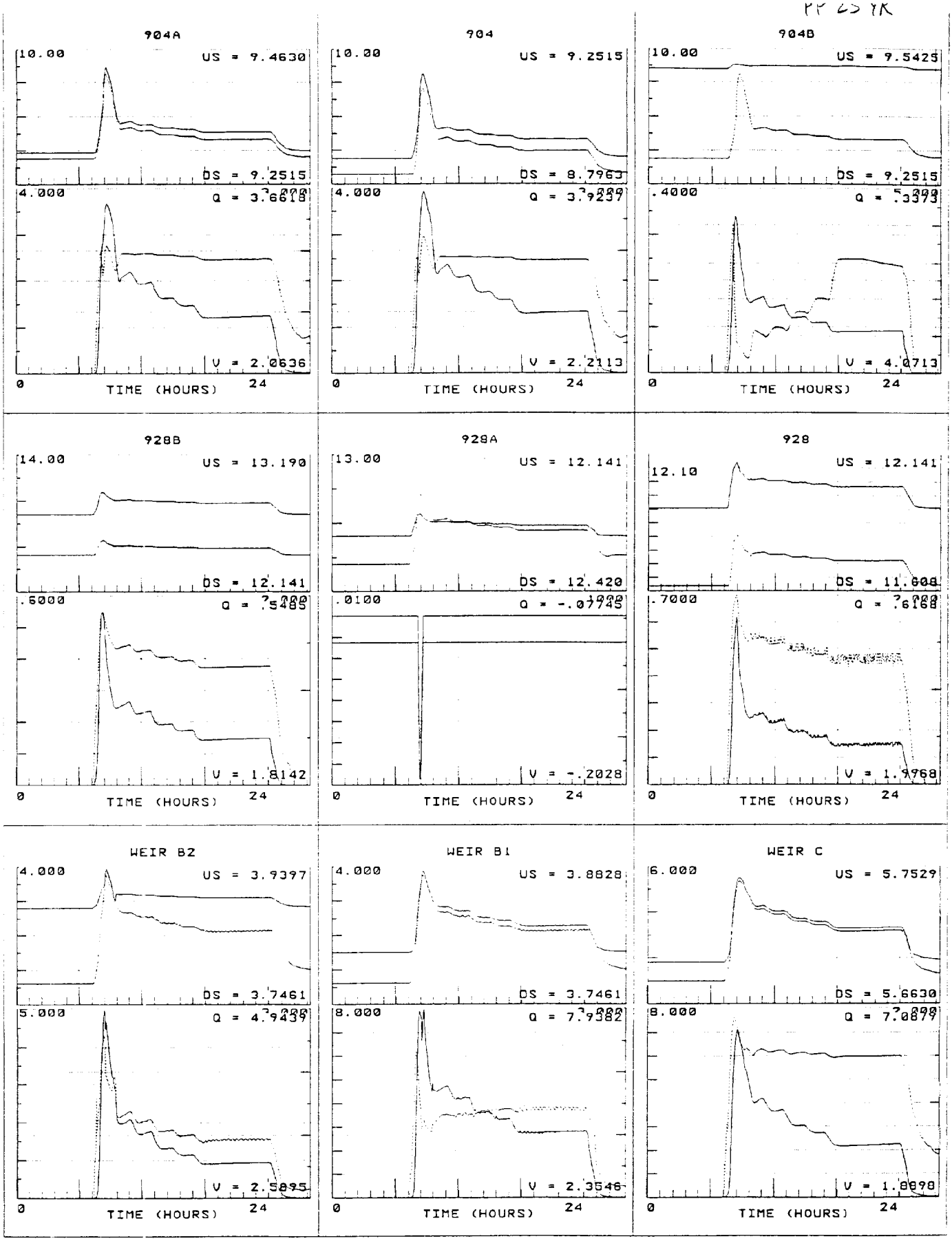


KCSlip4 35443

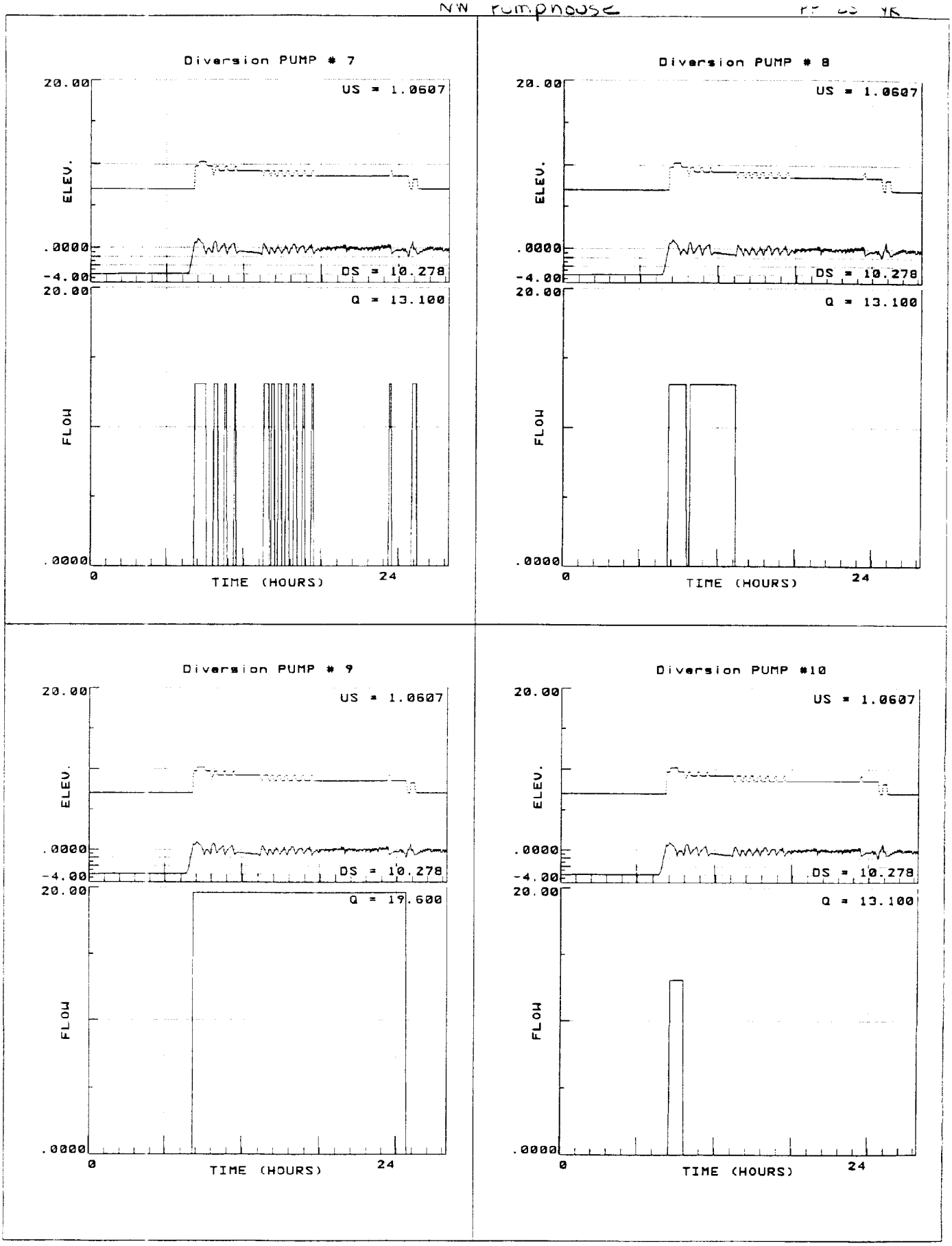
SEA401988

APPENDIX D

Proposed 25 Year Conveyance

Northwest Pump System

NW Pumphouse



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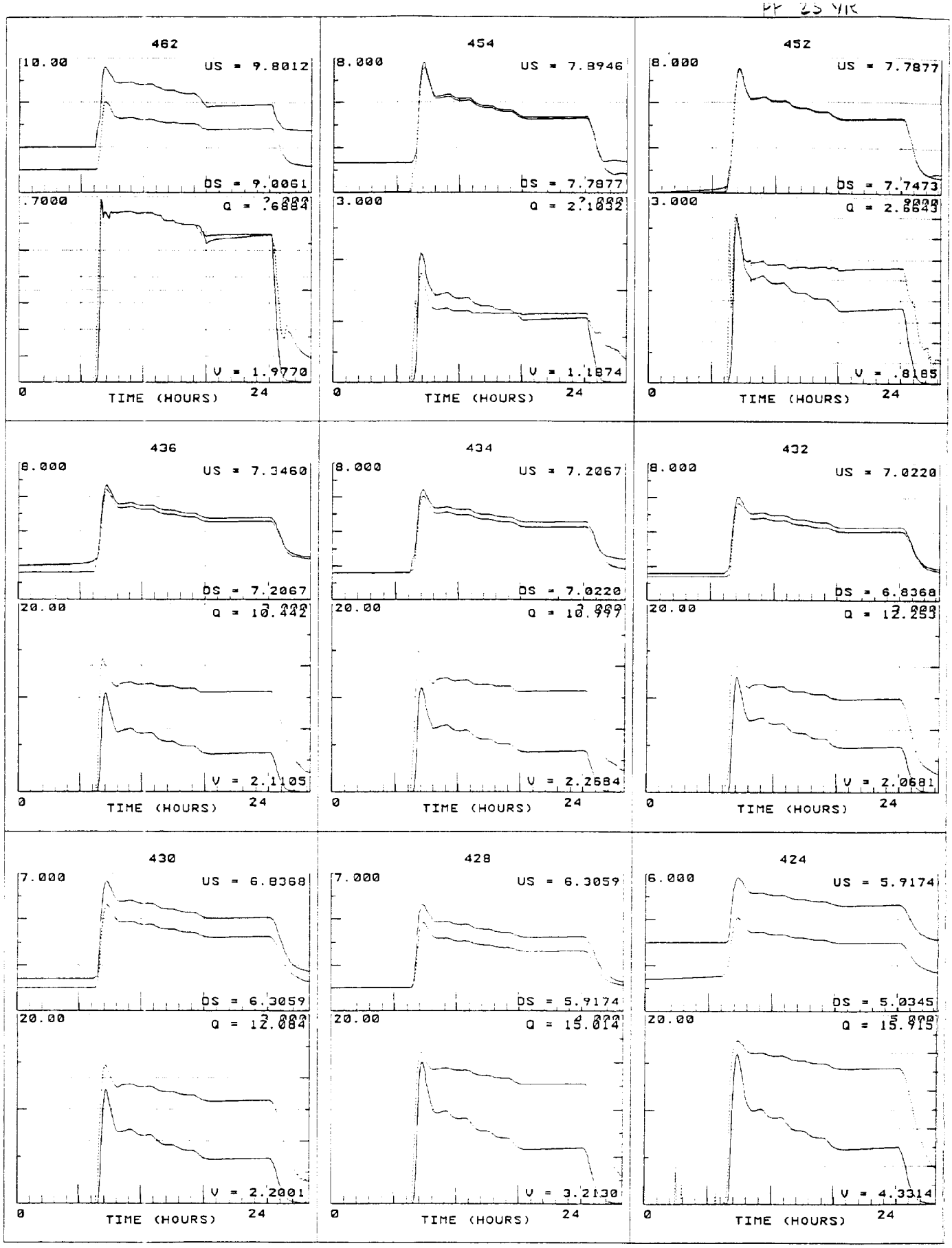

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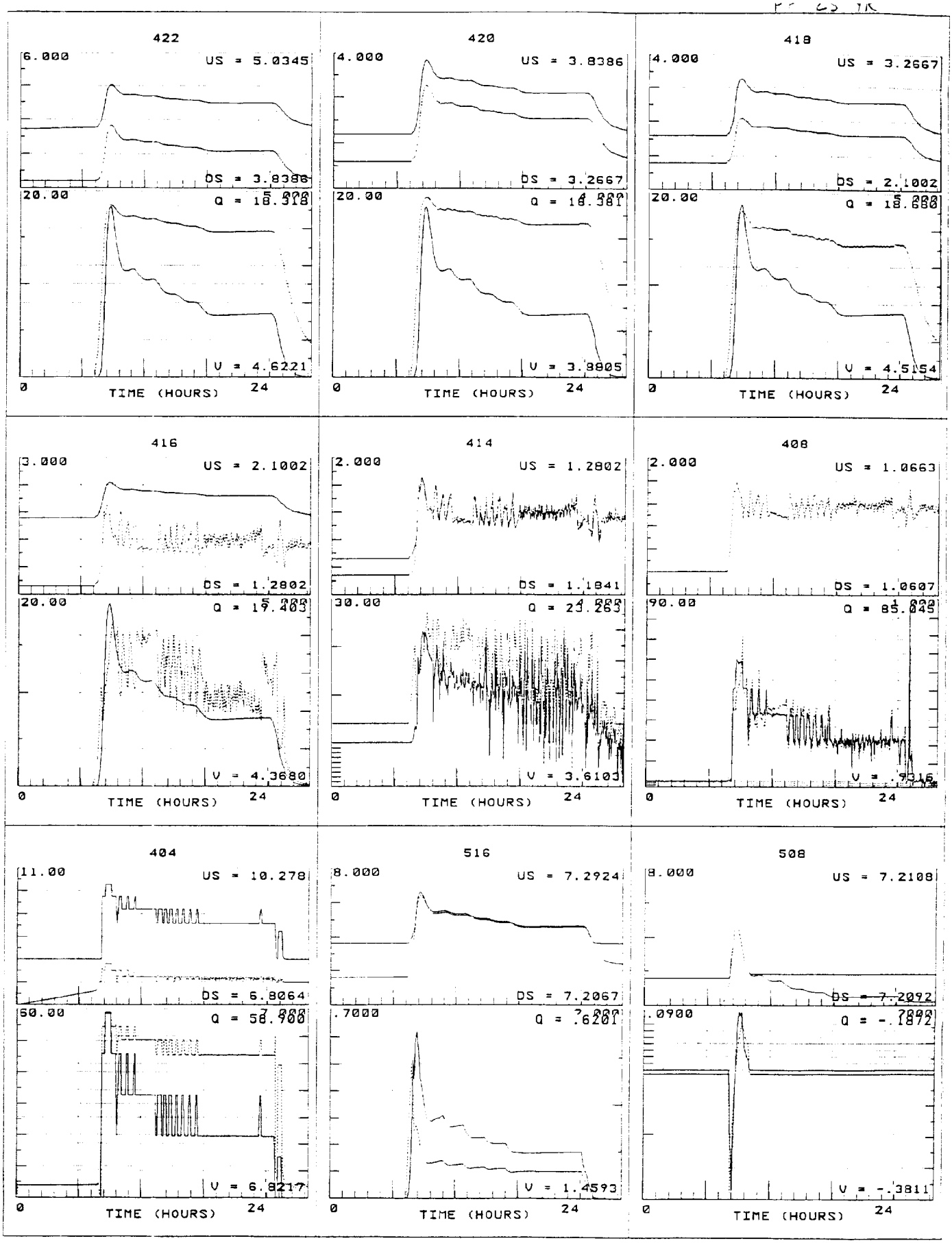

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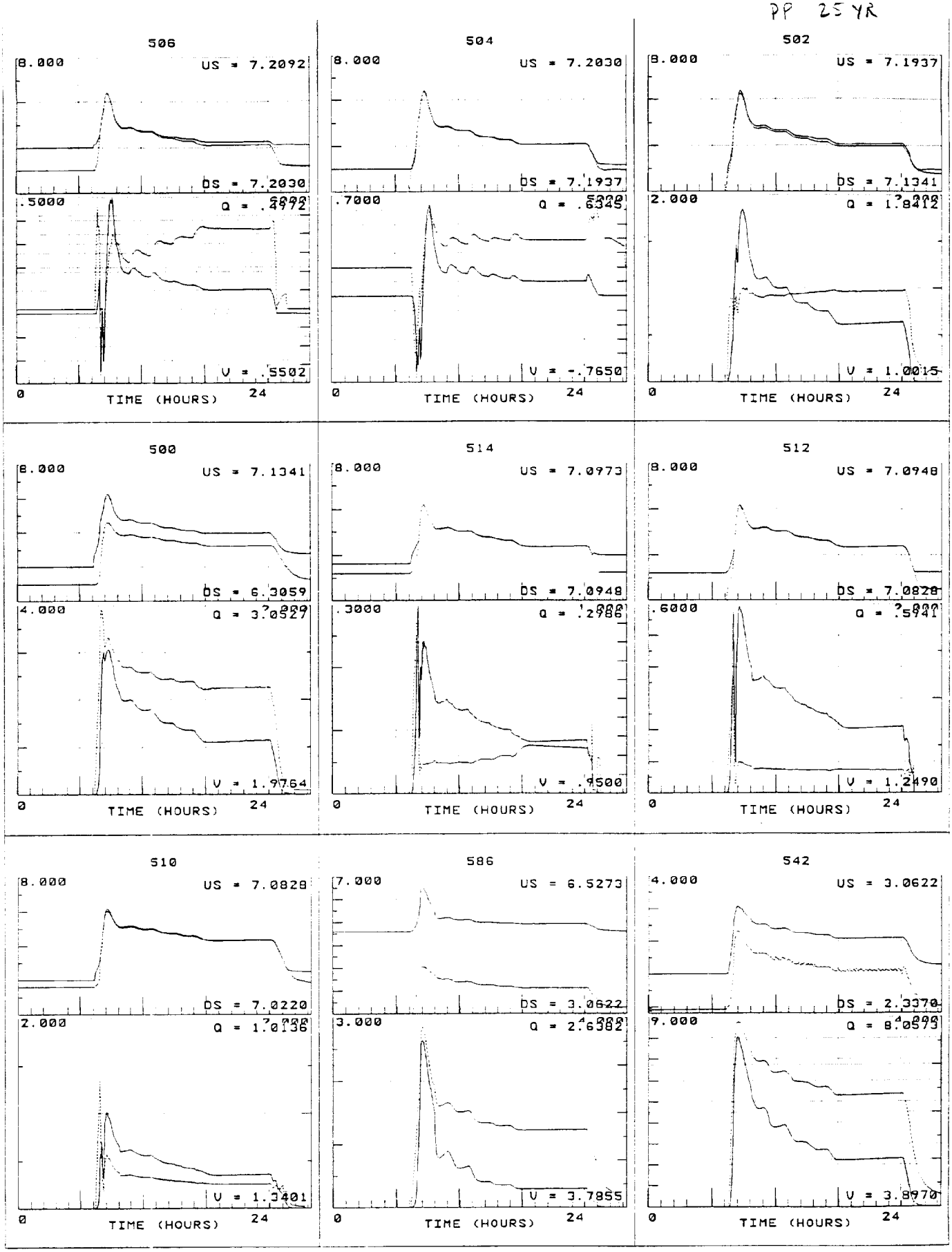

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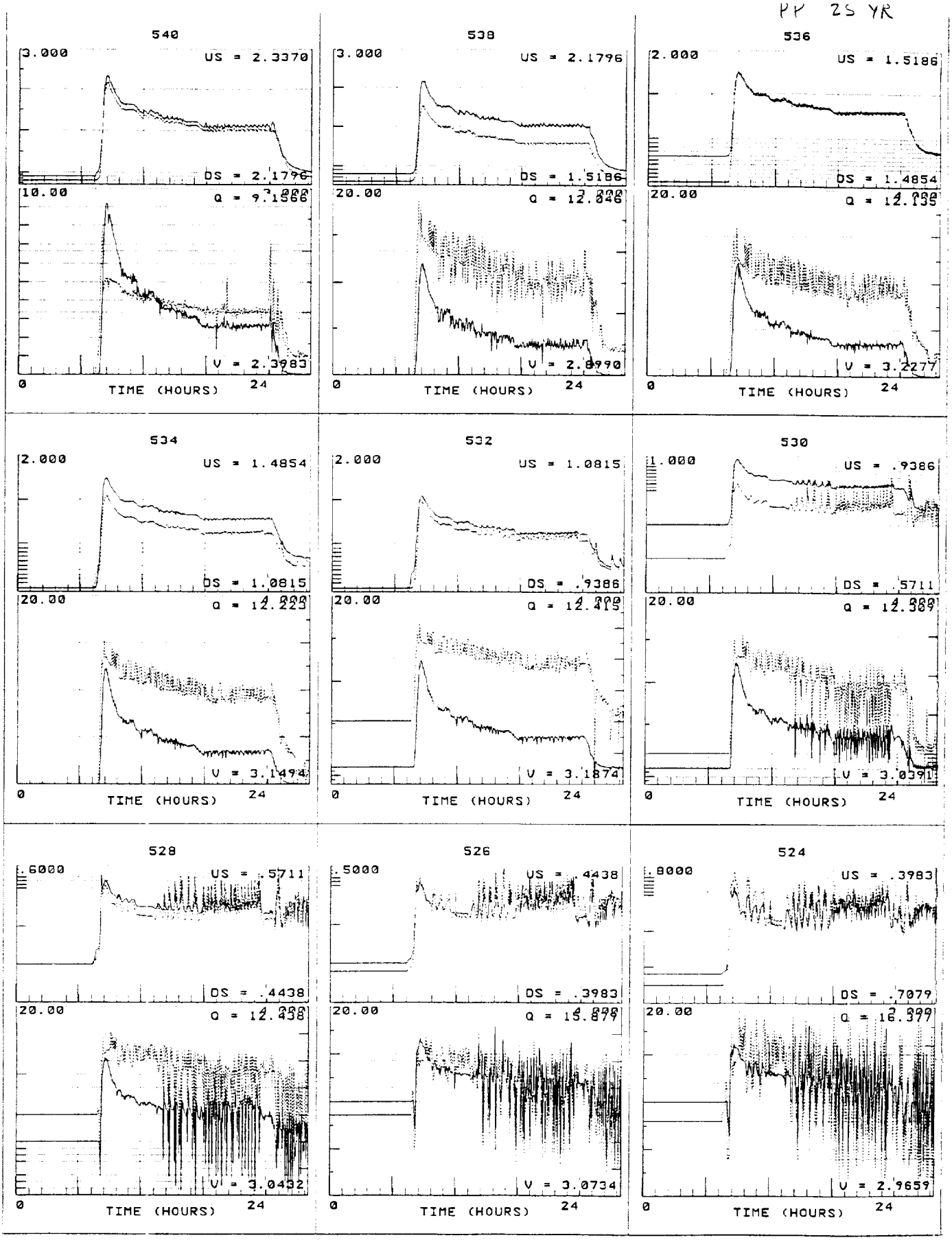

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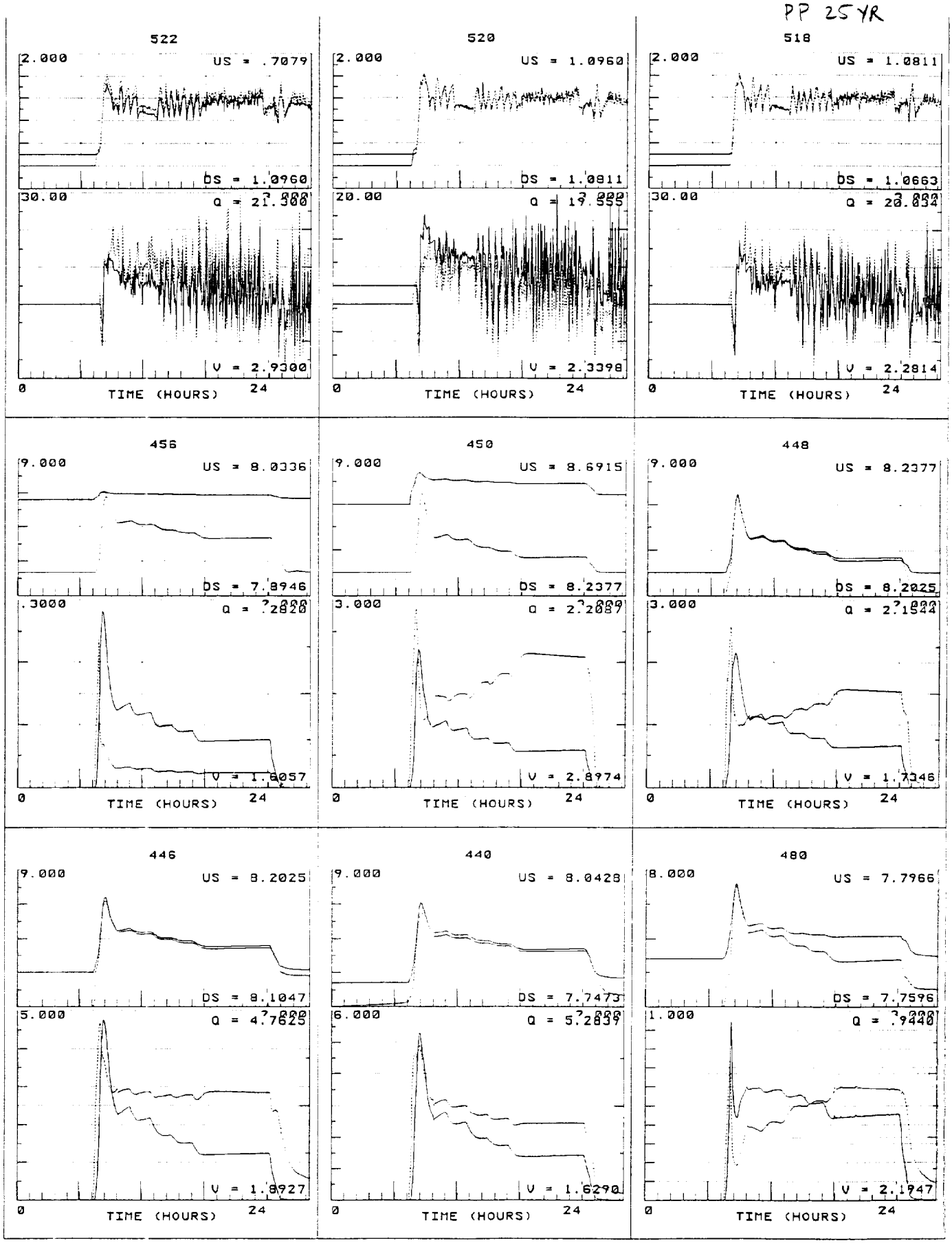

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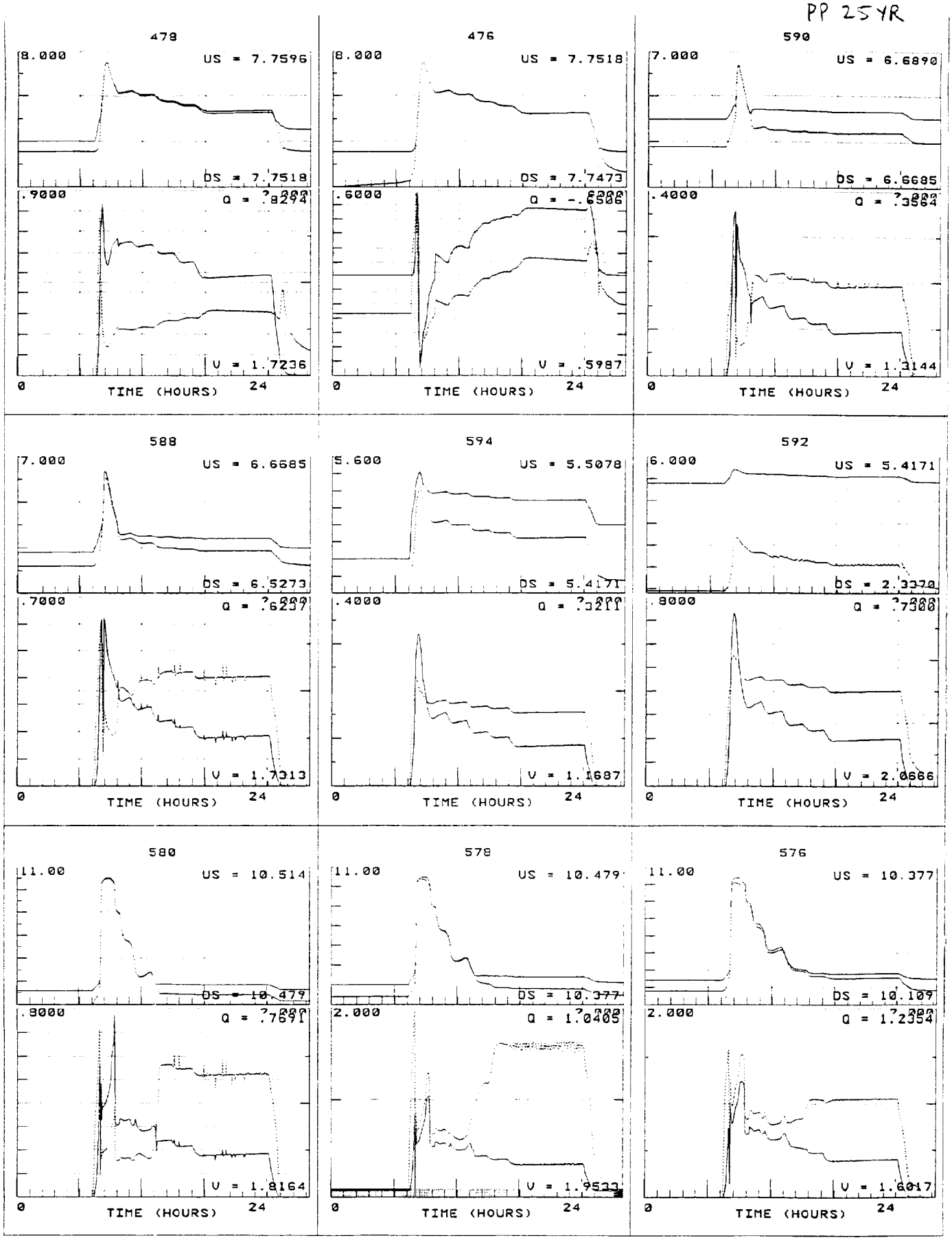

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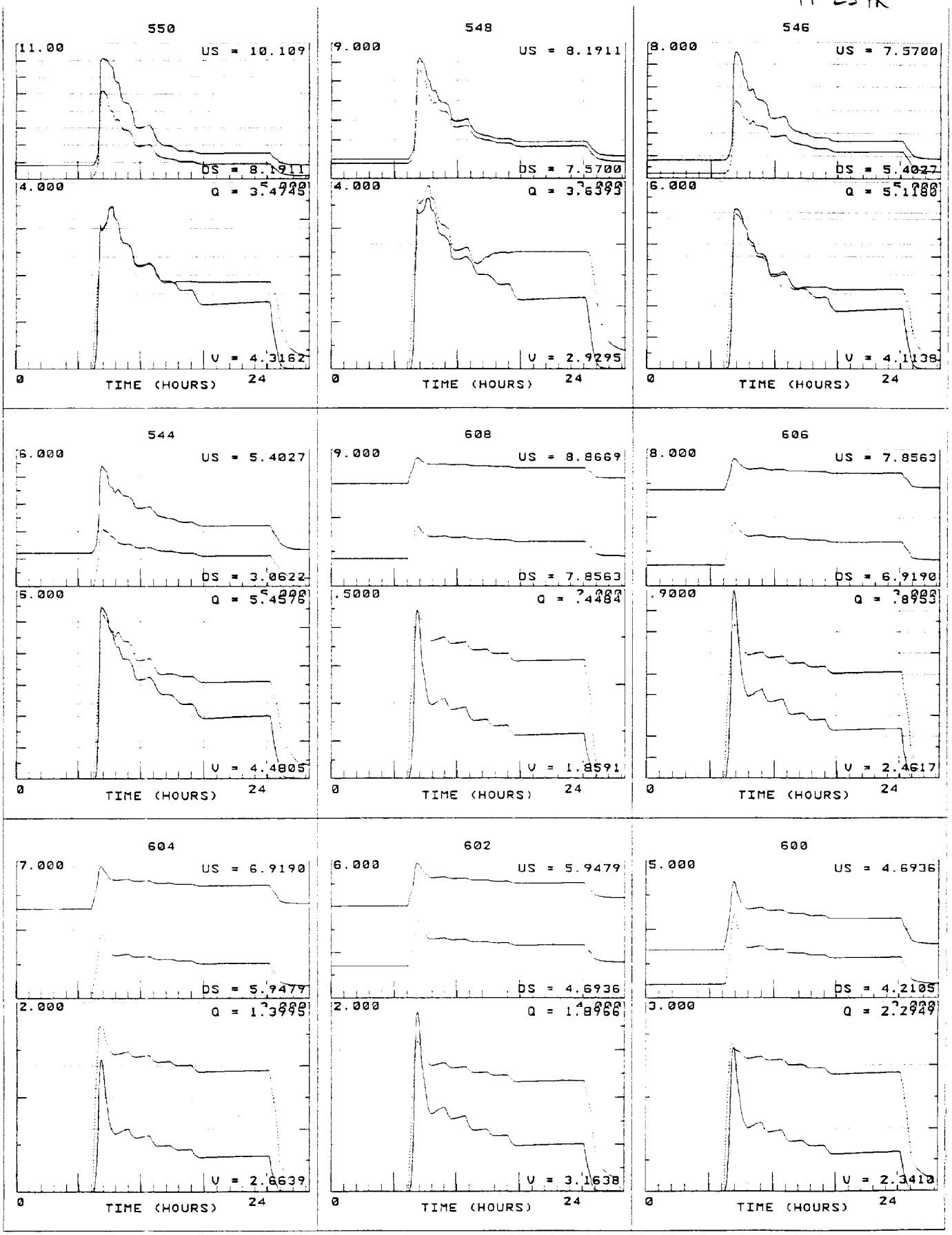

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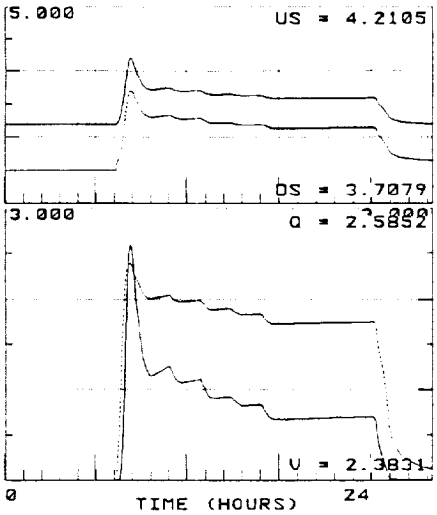

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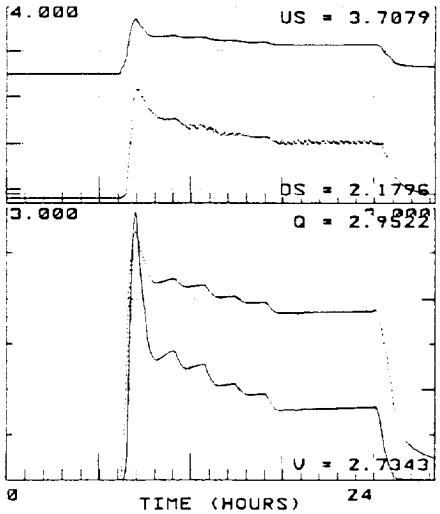

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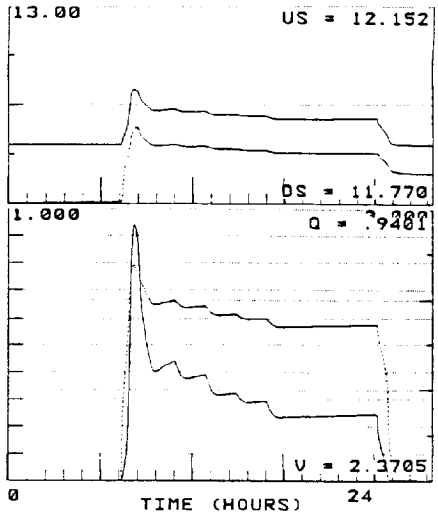

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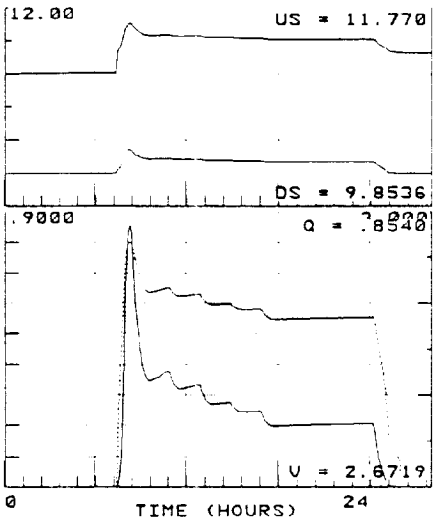

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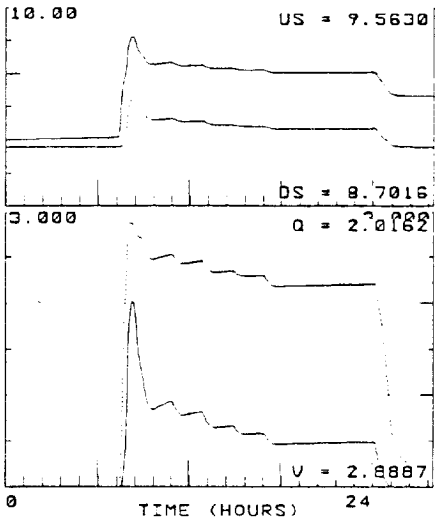

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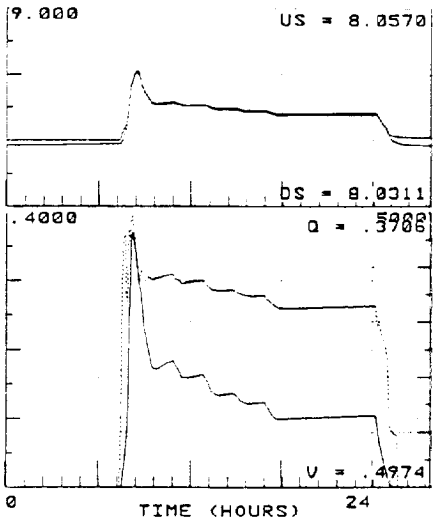

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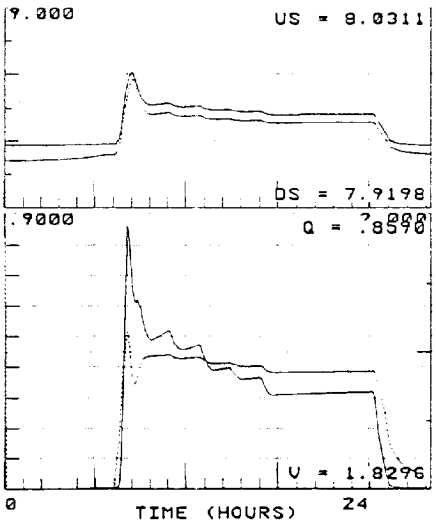

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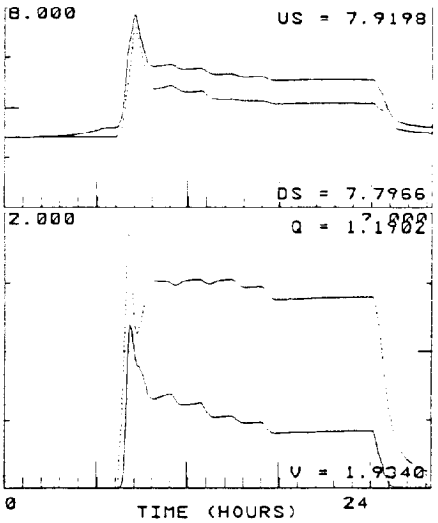

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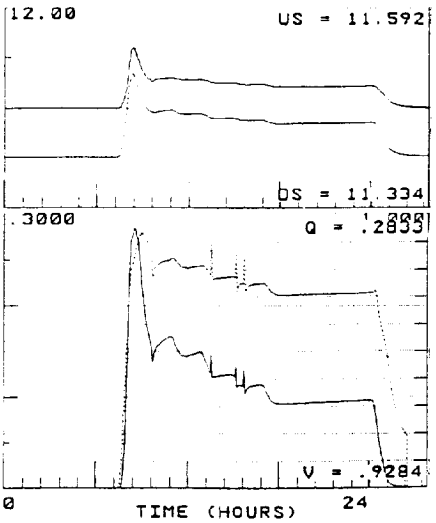

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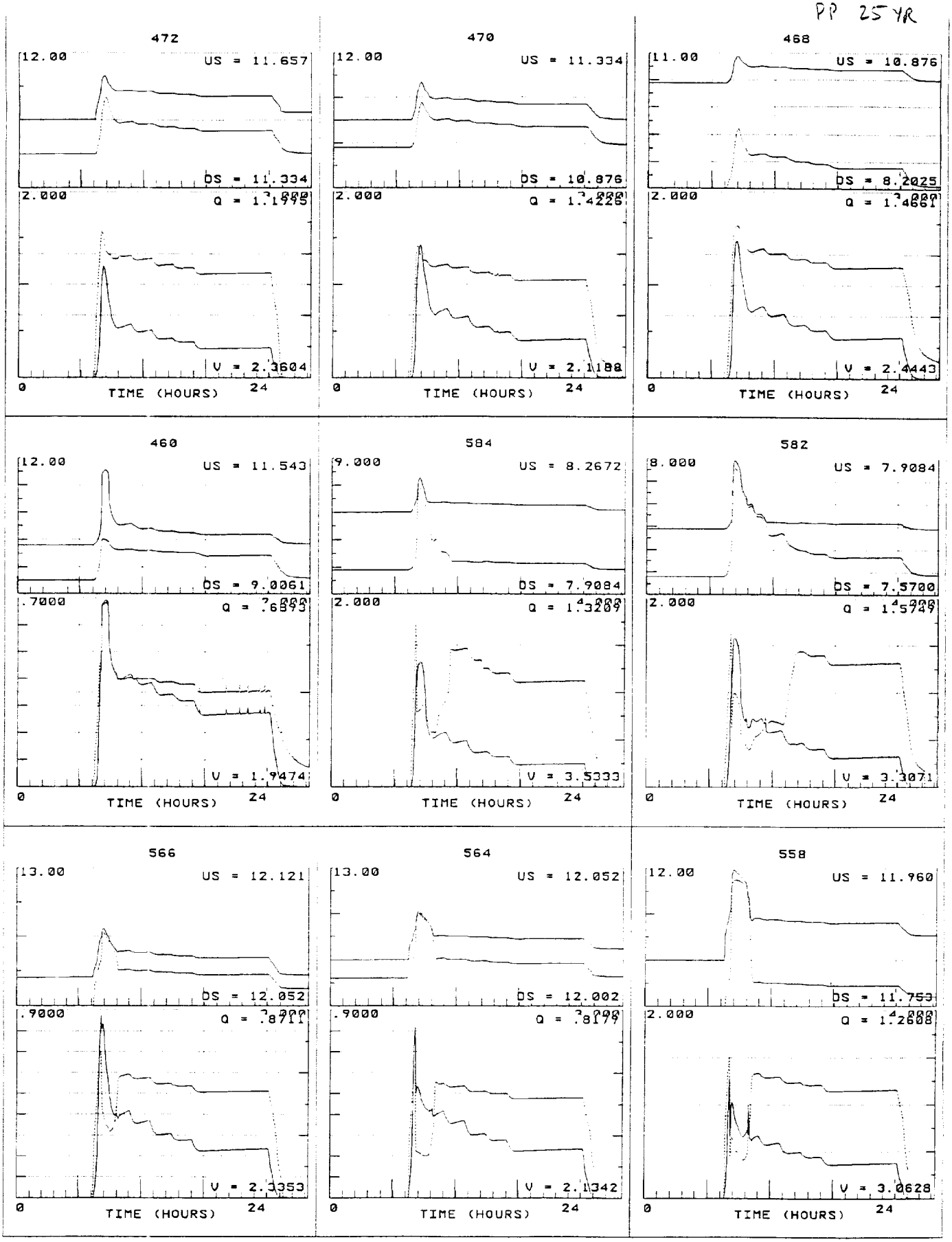
PP 25 YR



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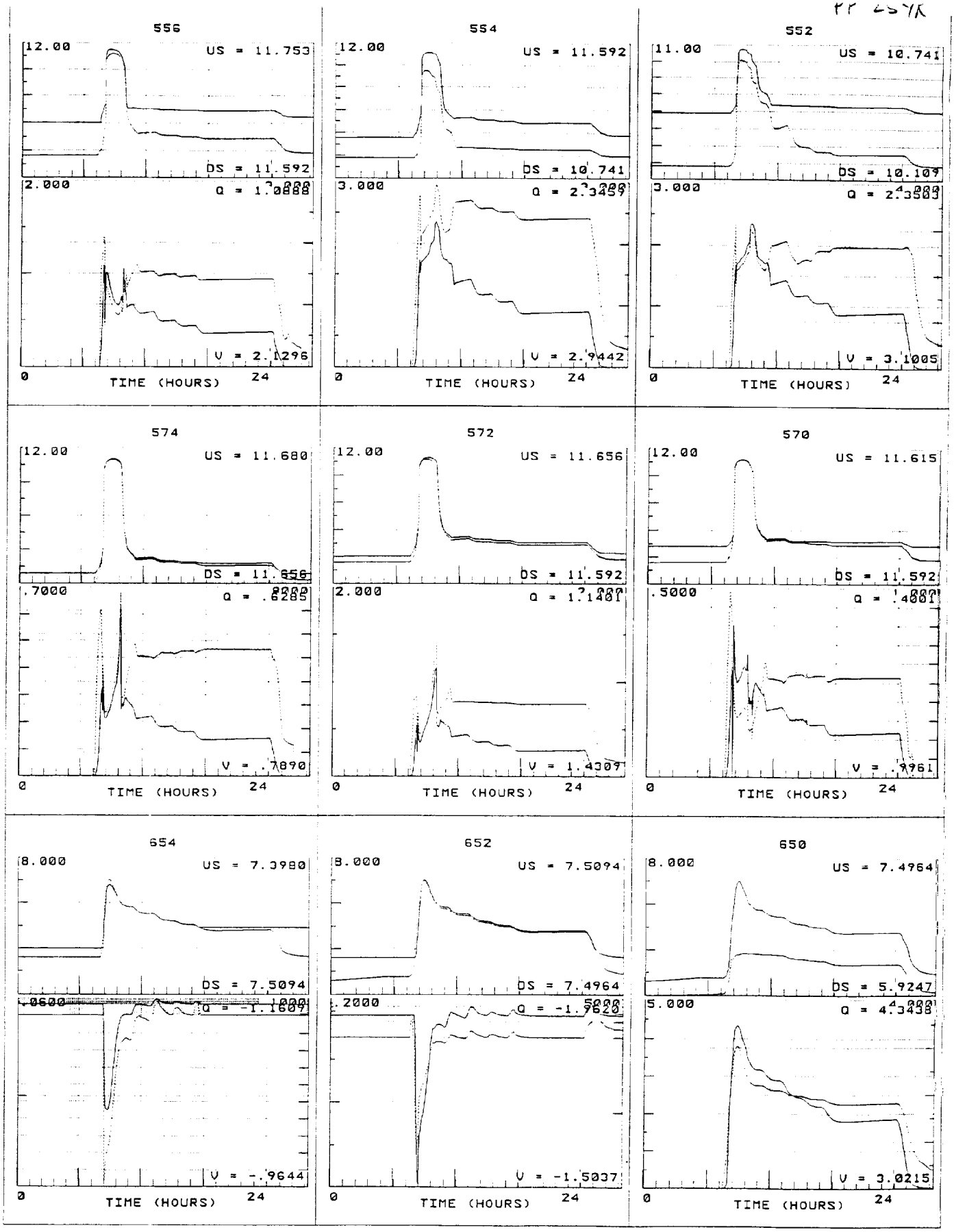

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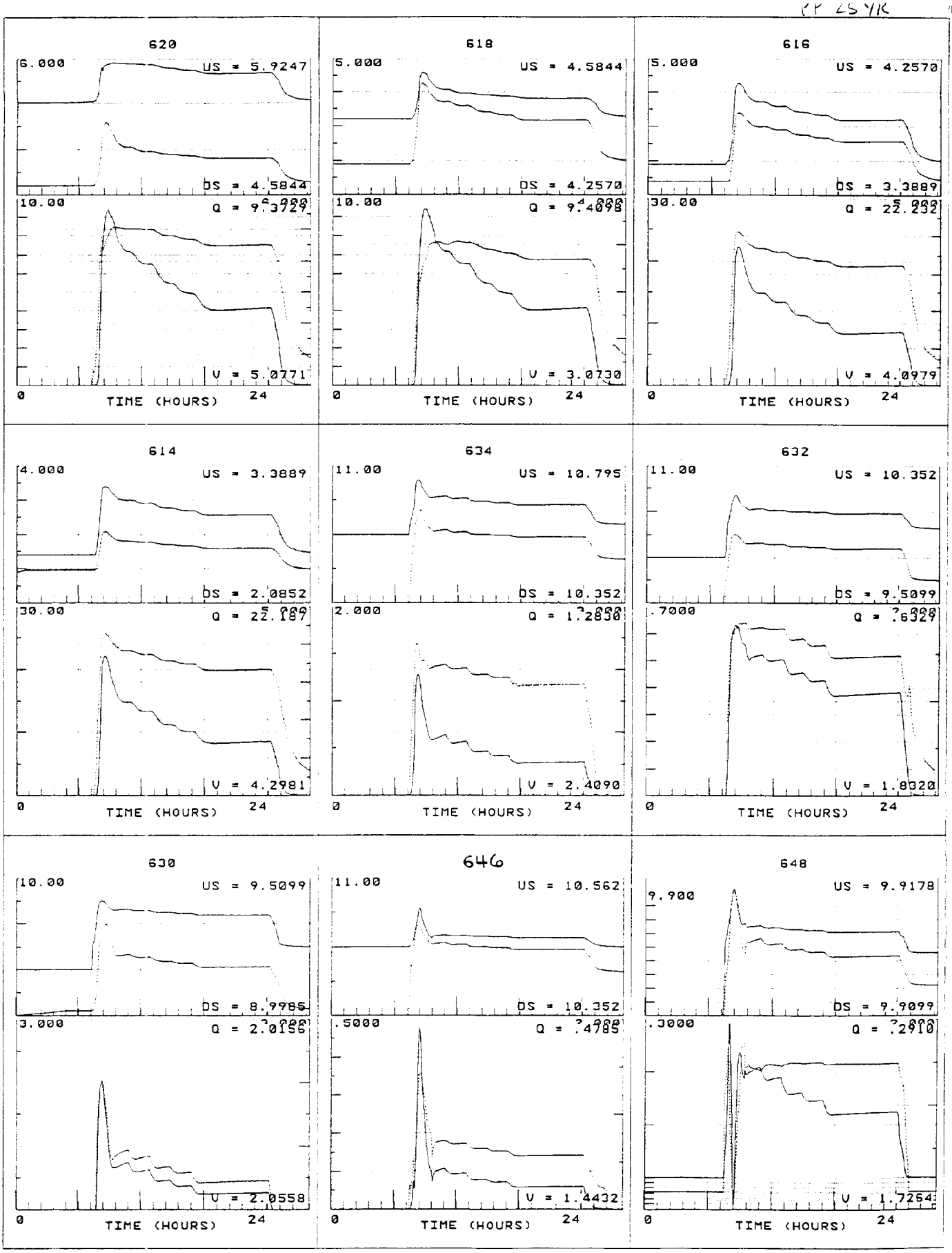

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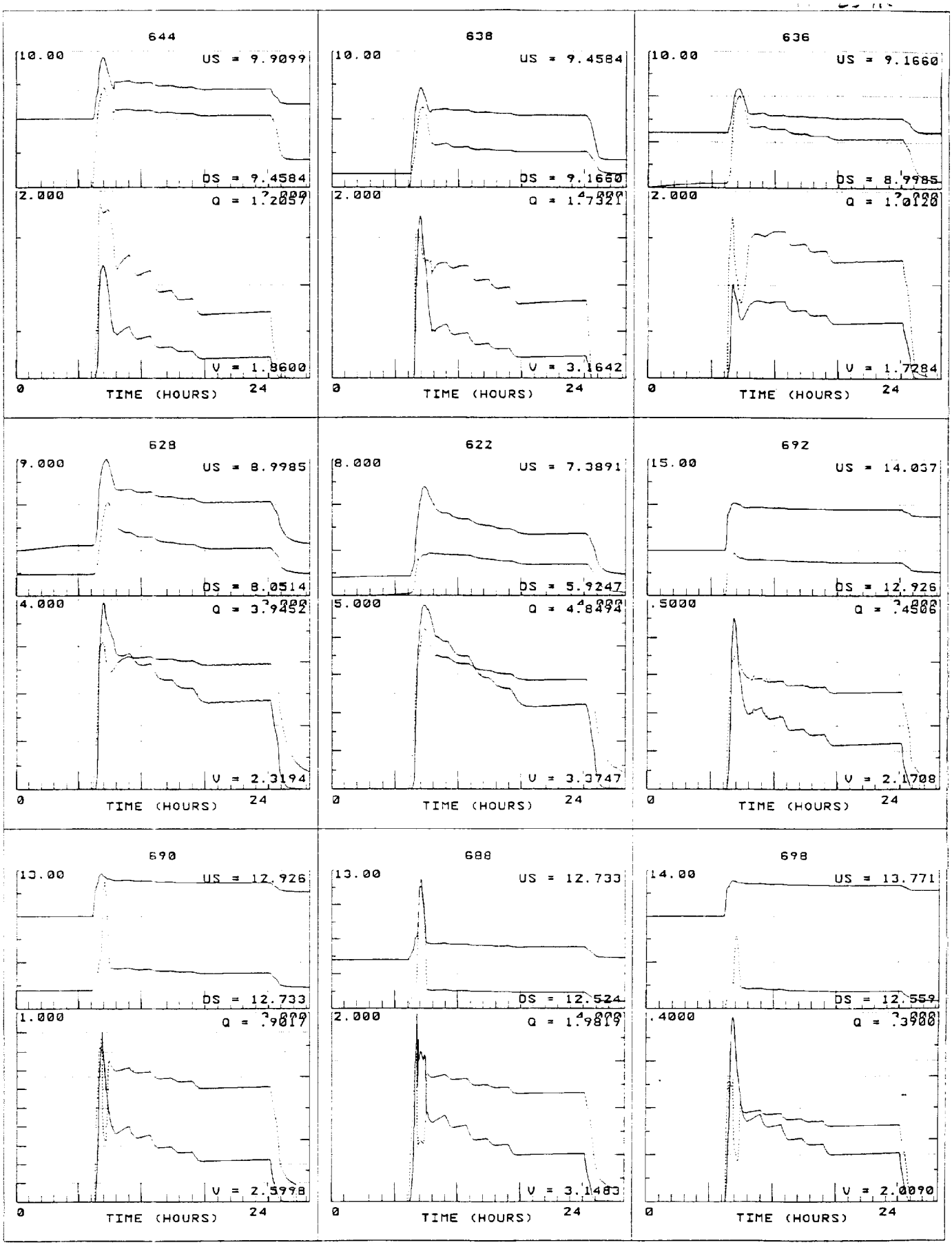

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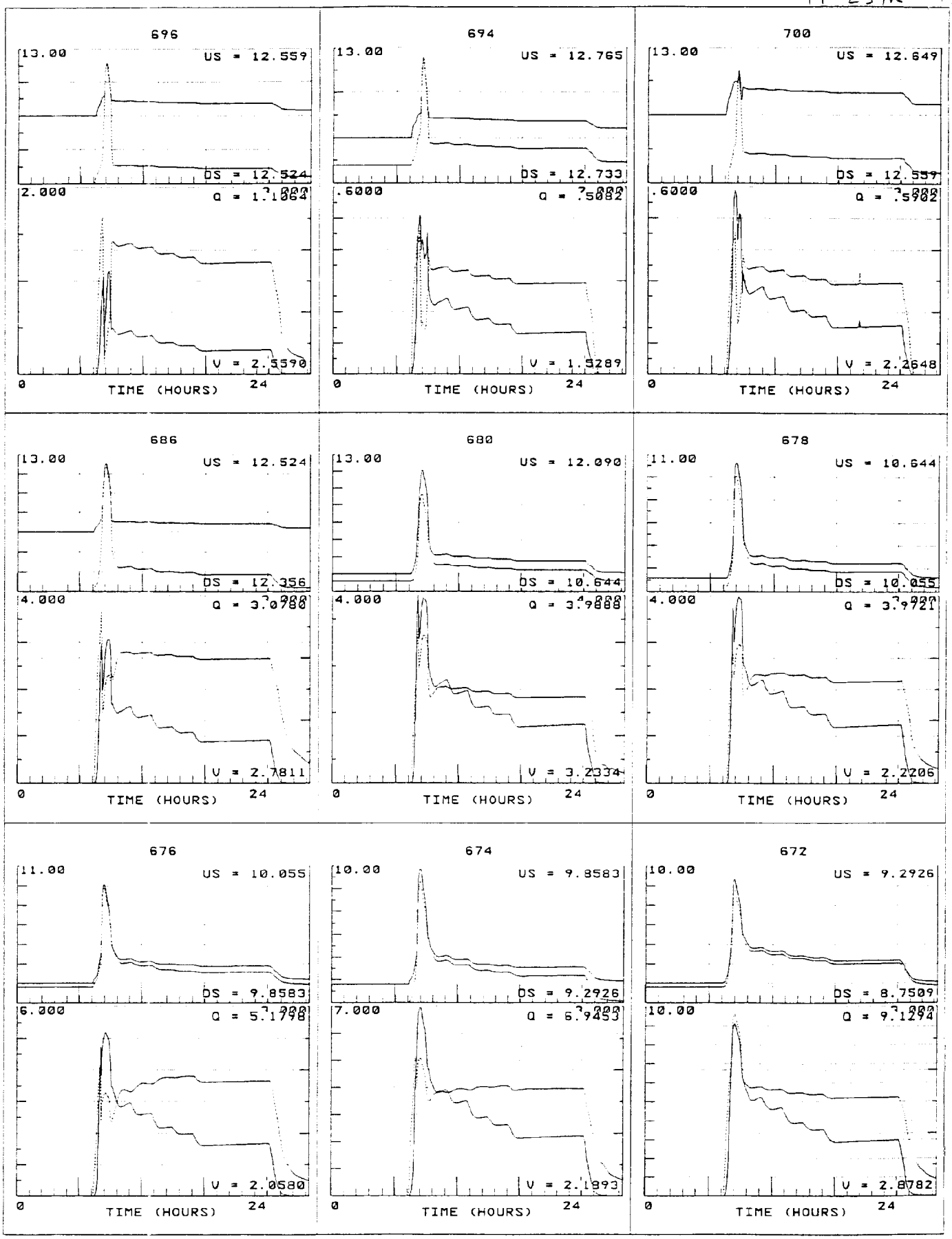
PP 25YR 15



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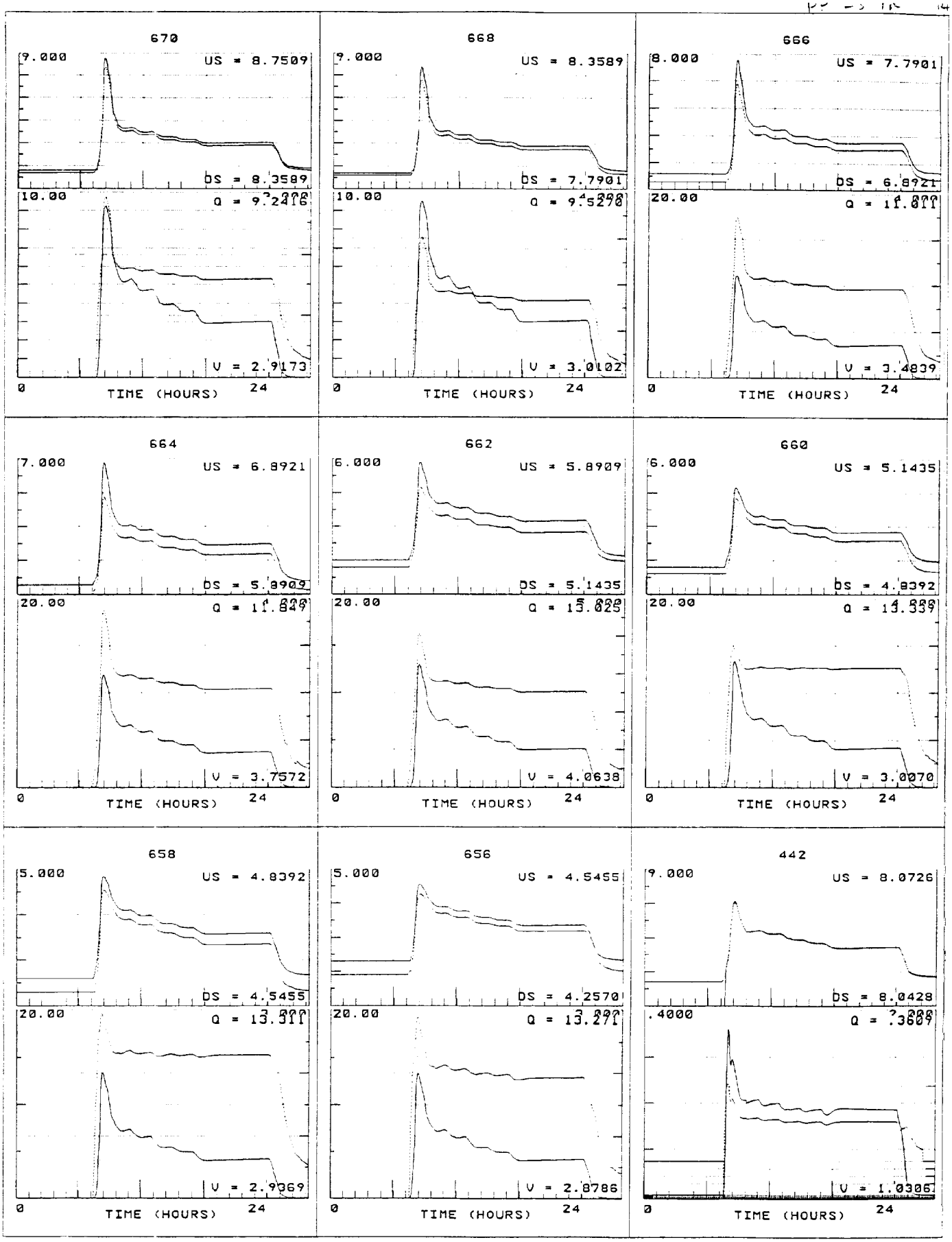

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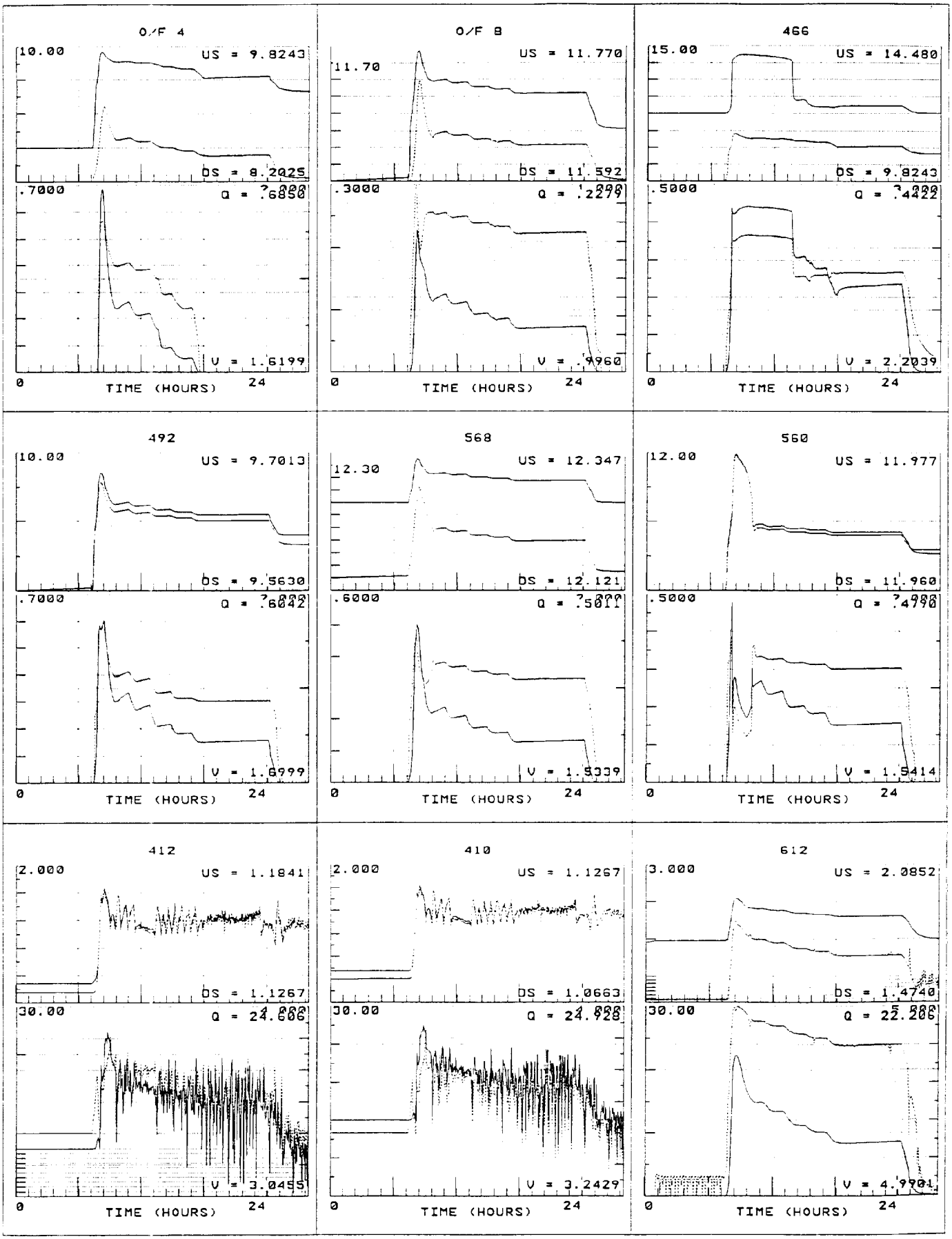

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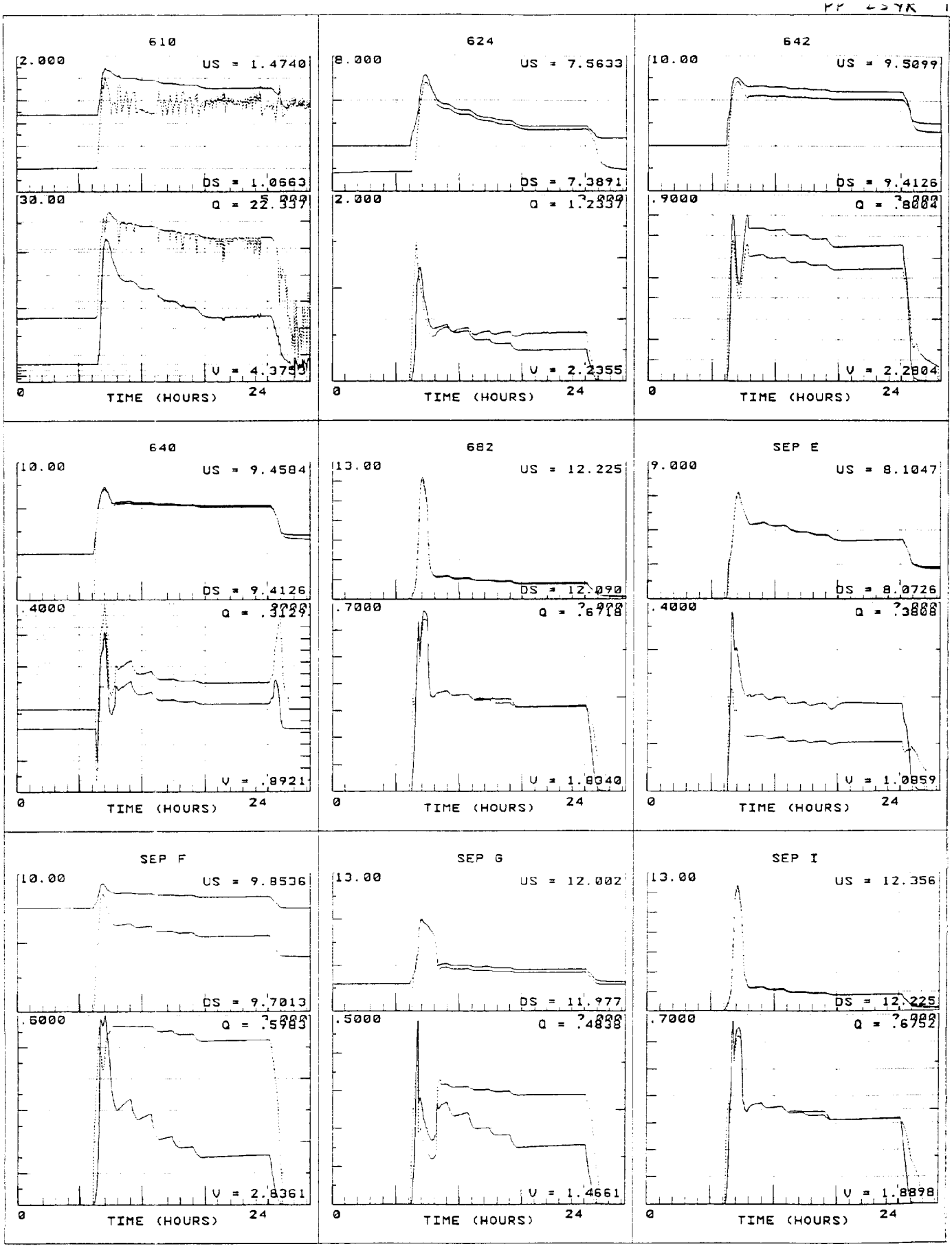

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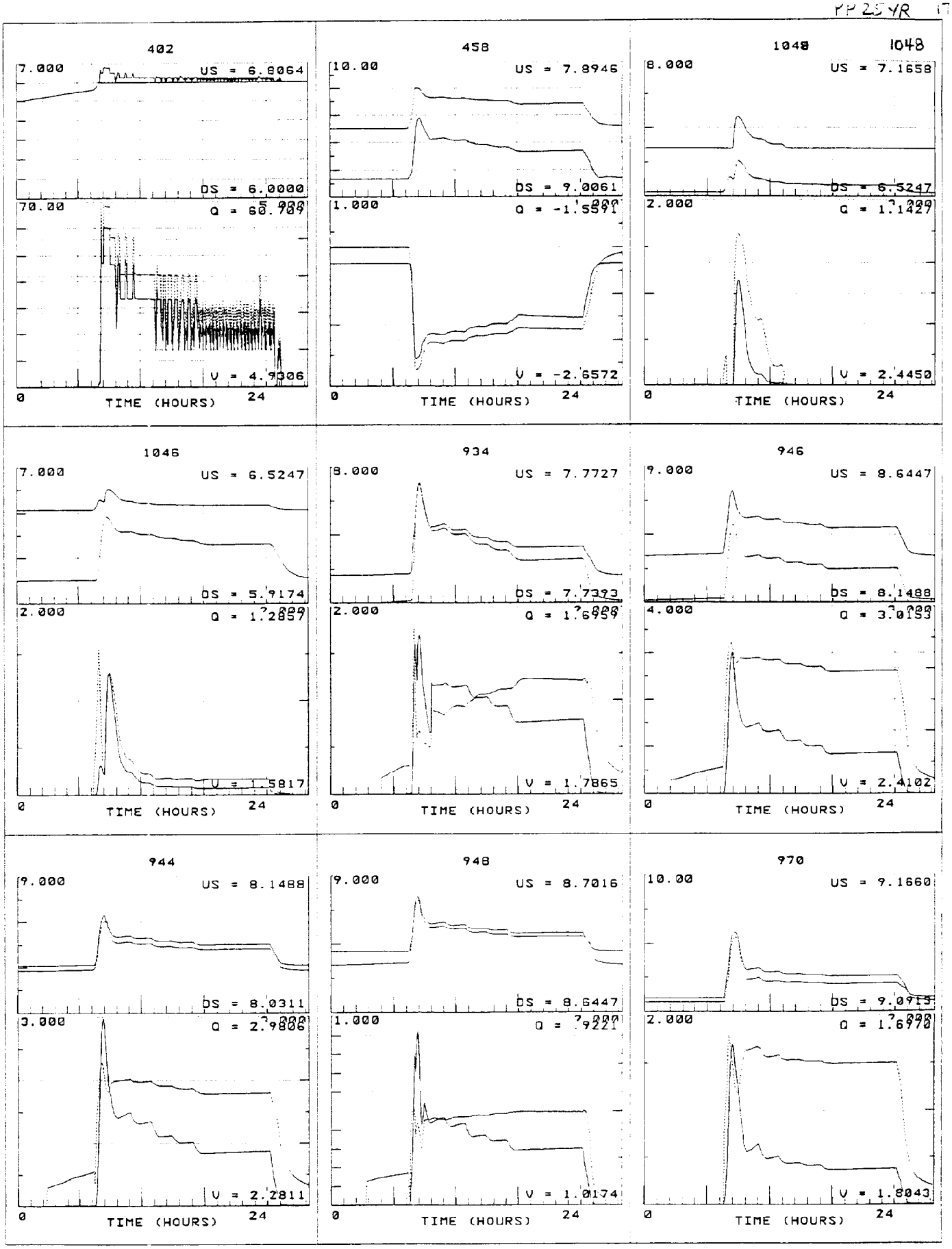

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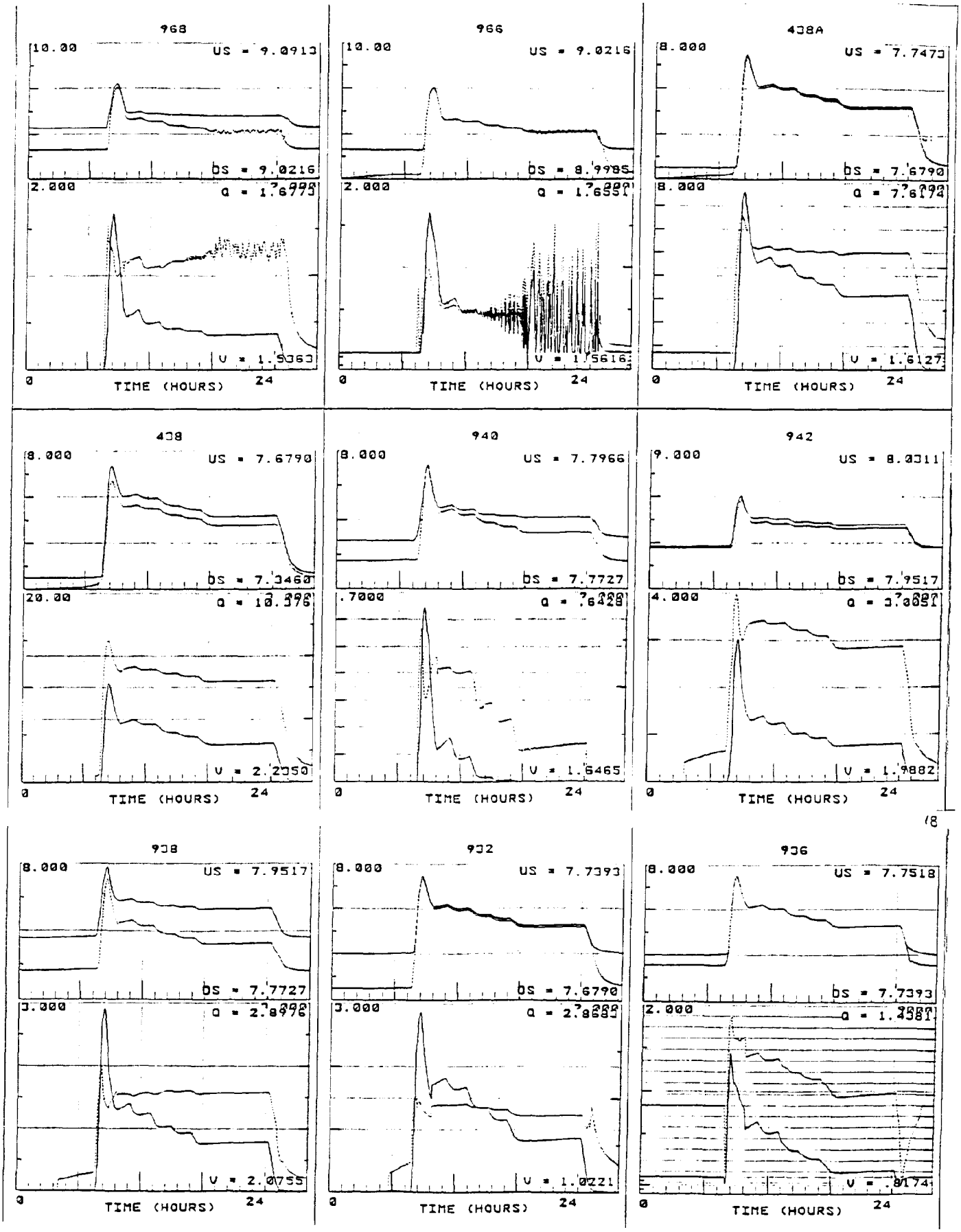

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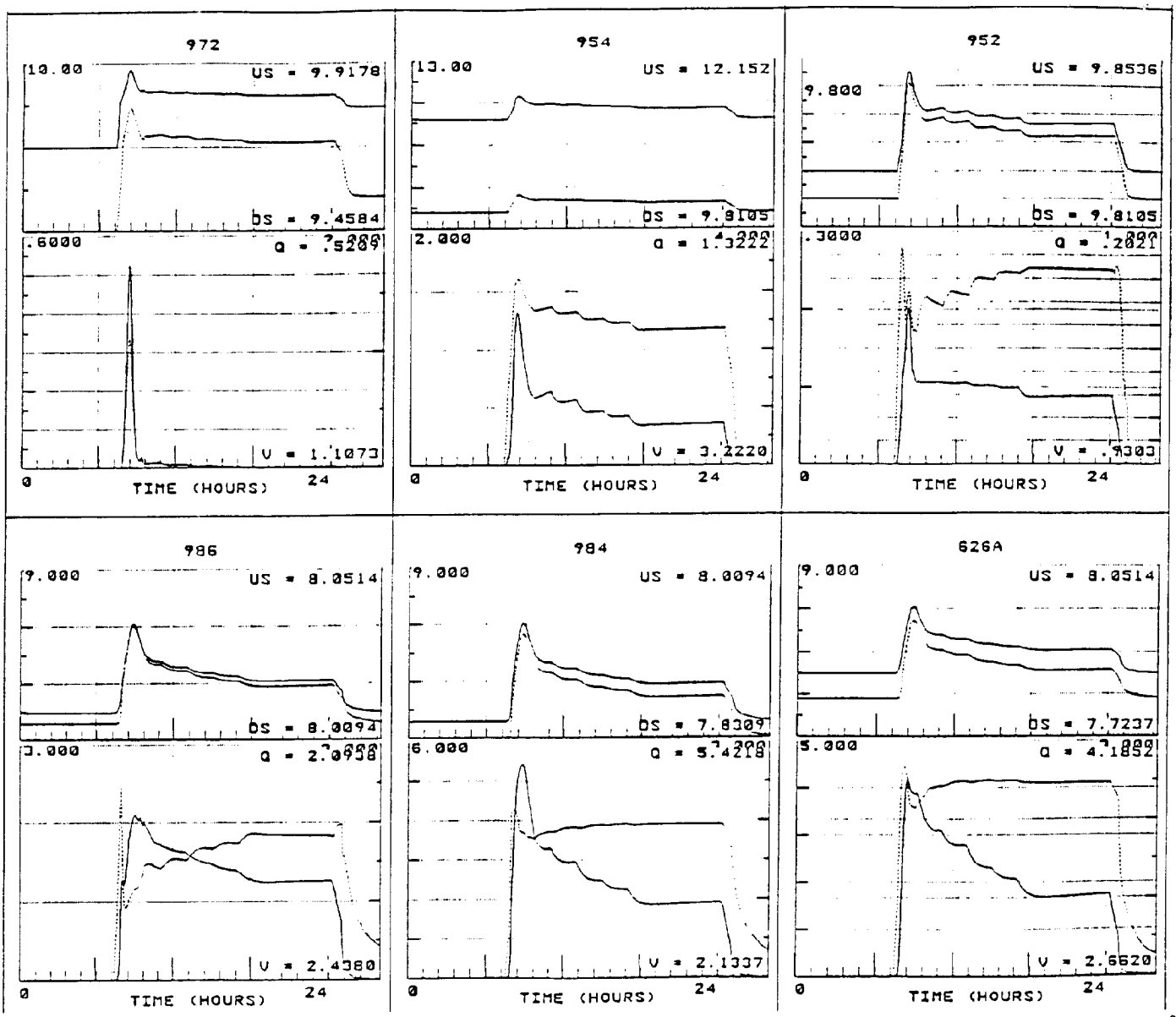
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2.000
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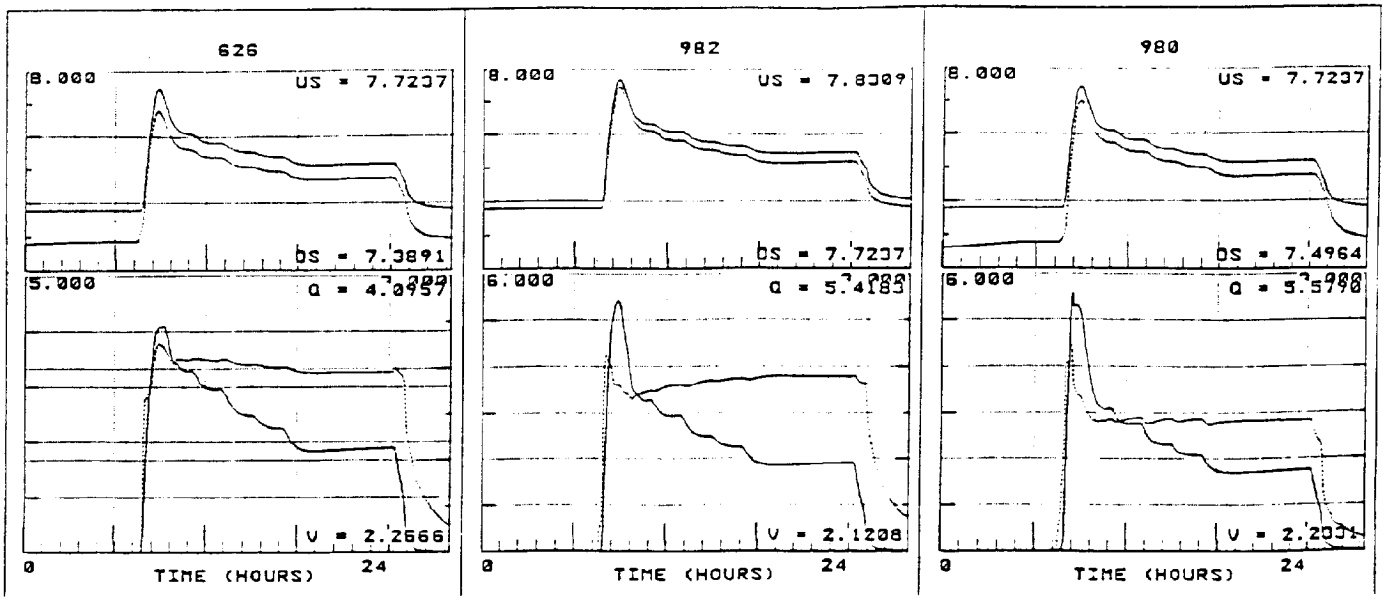
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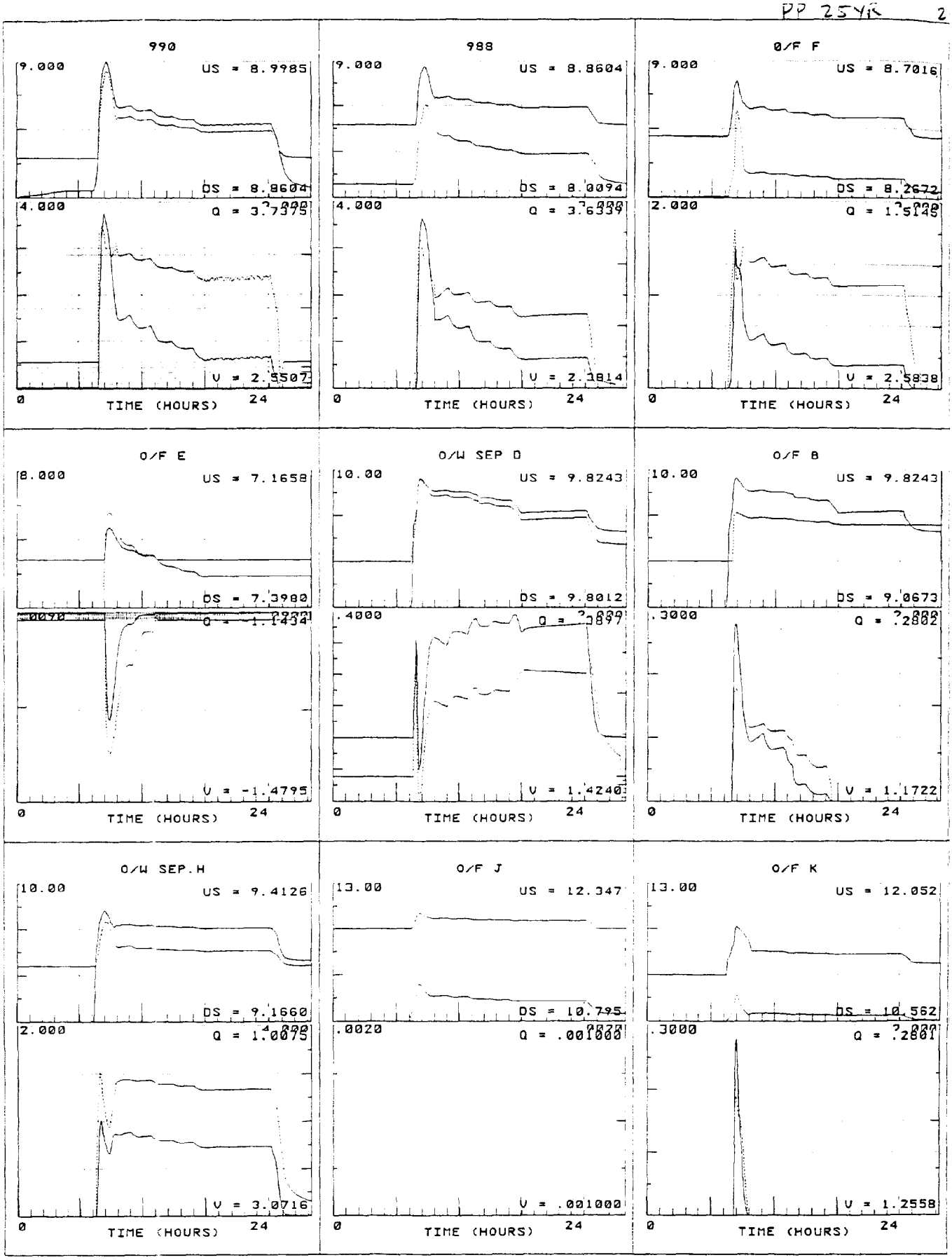

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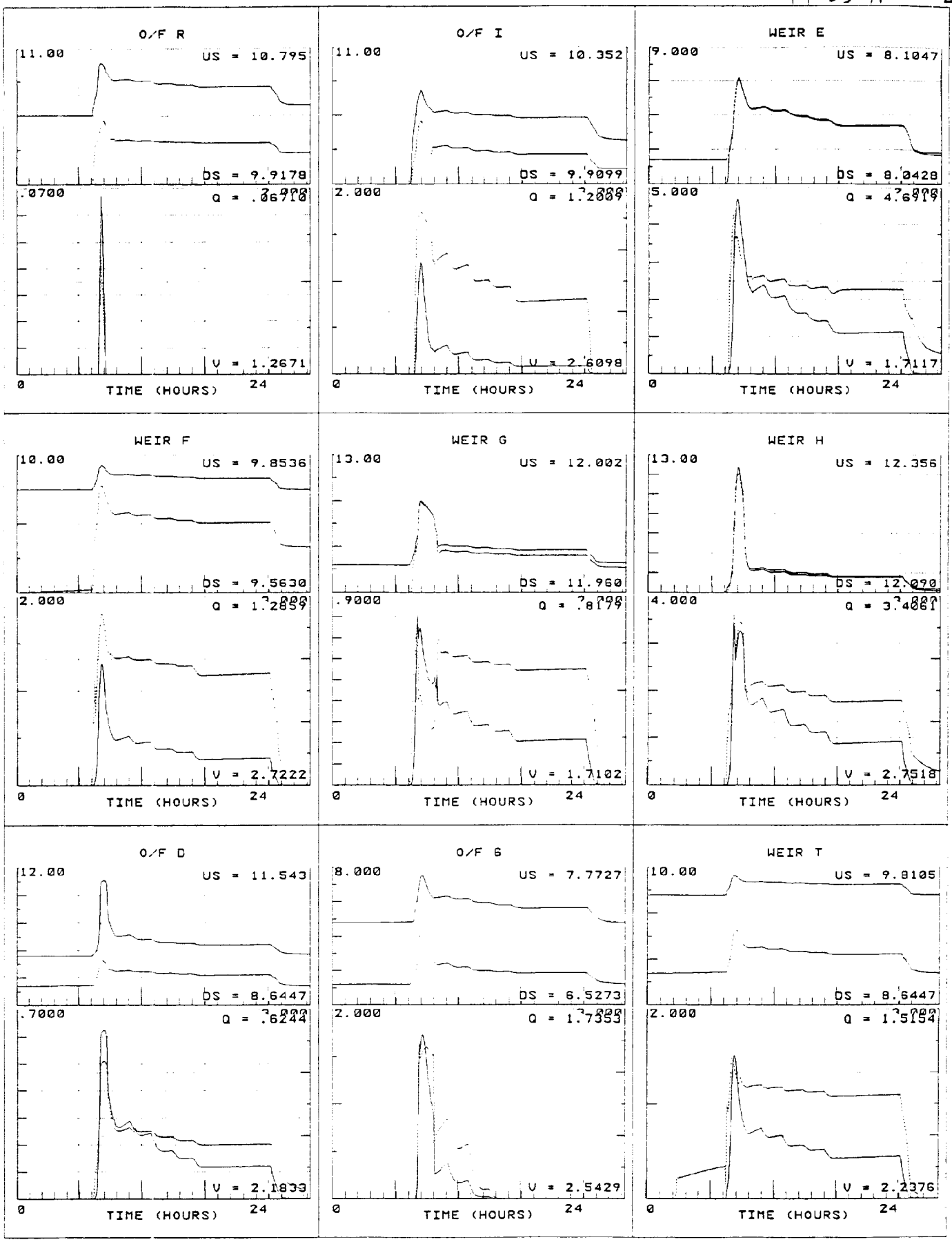
SEA402010



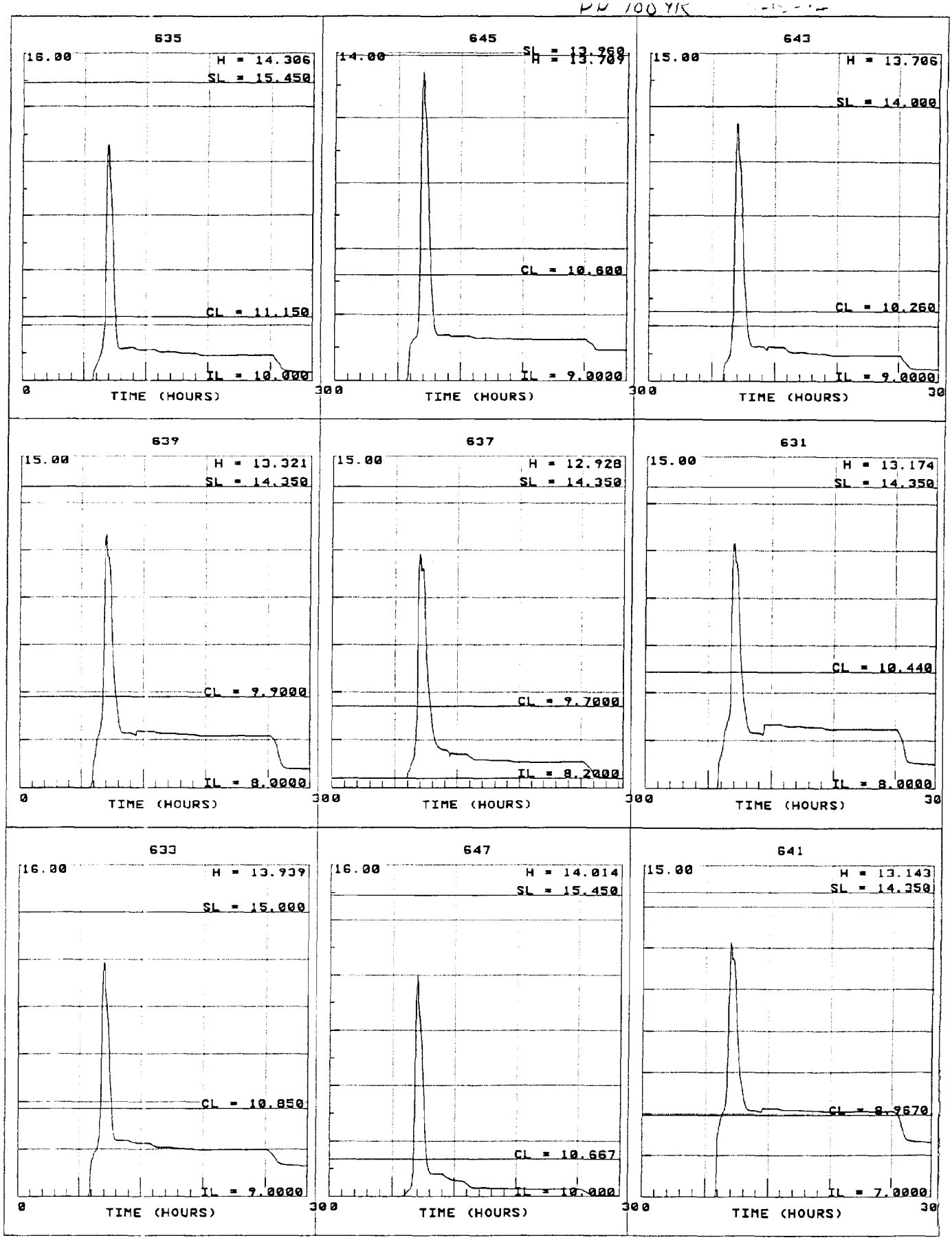
KCSlip4 35466

SEA402011

APPENDIX E

Proposed 100 Year Backwater Analysis

PD 100 YR



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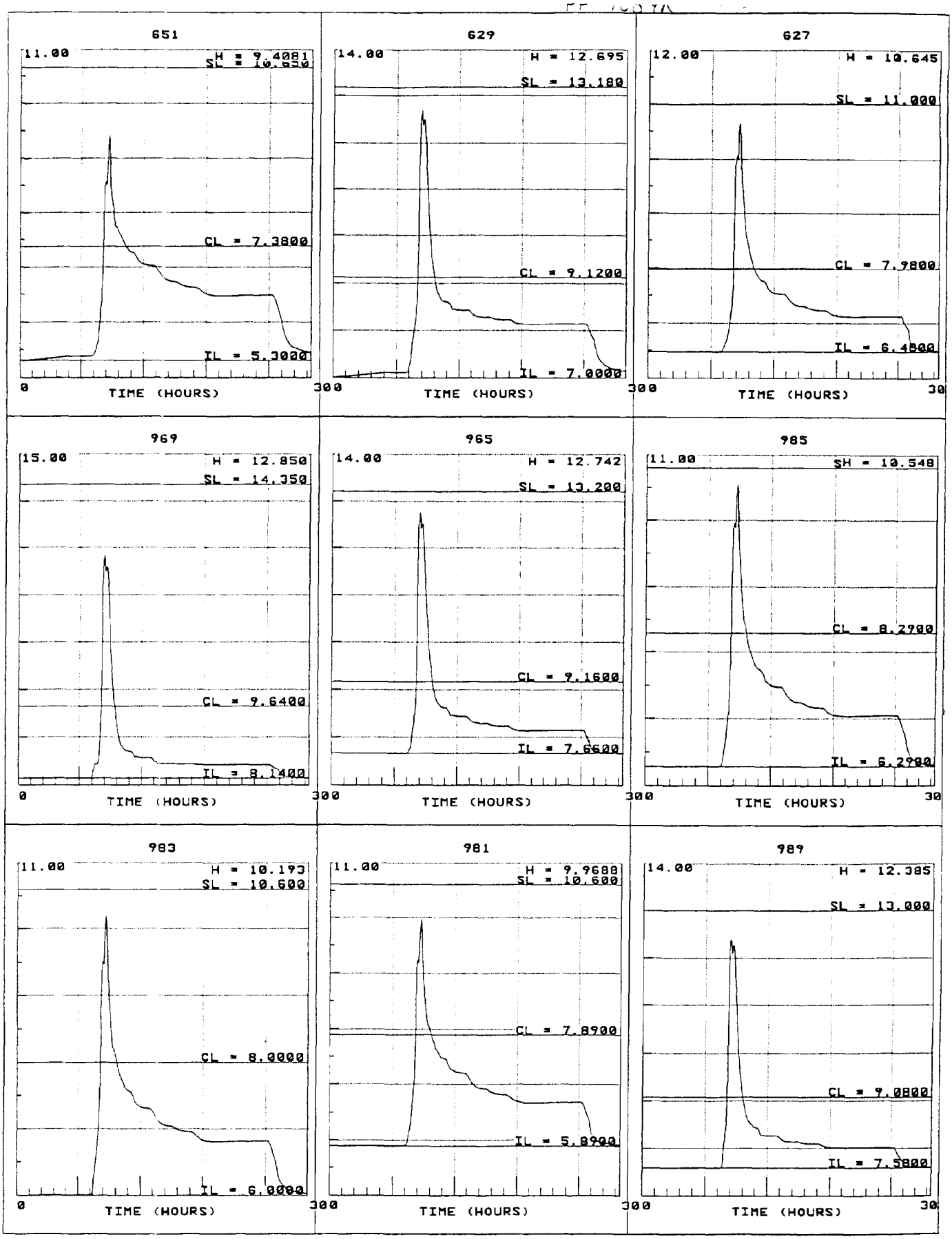

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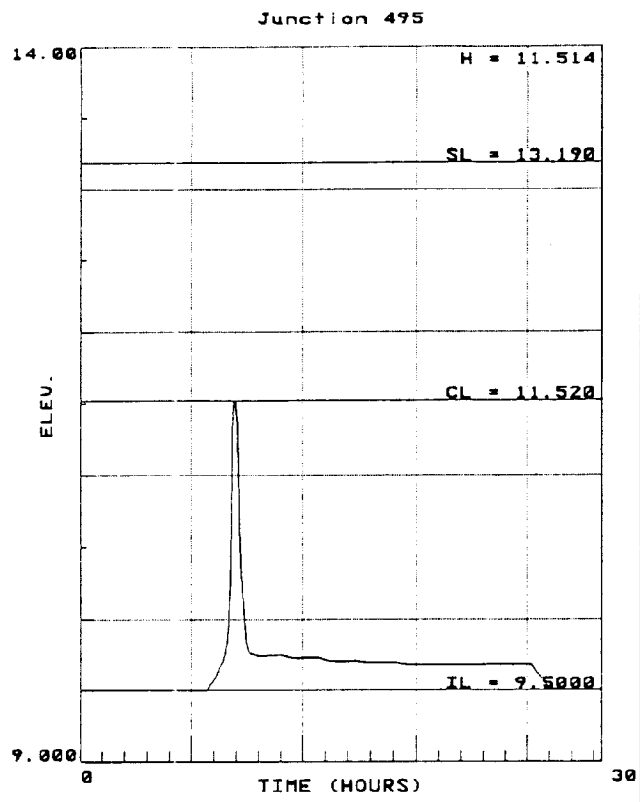
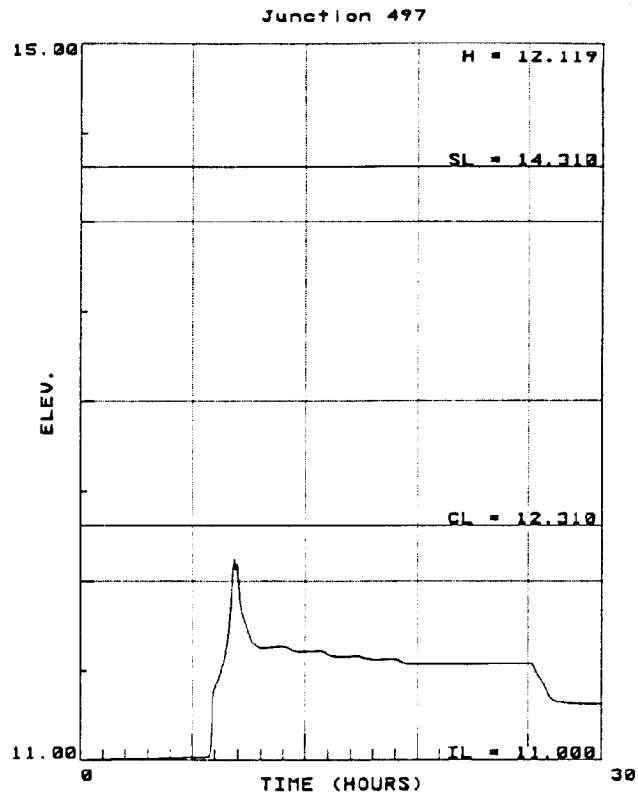
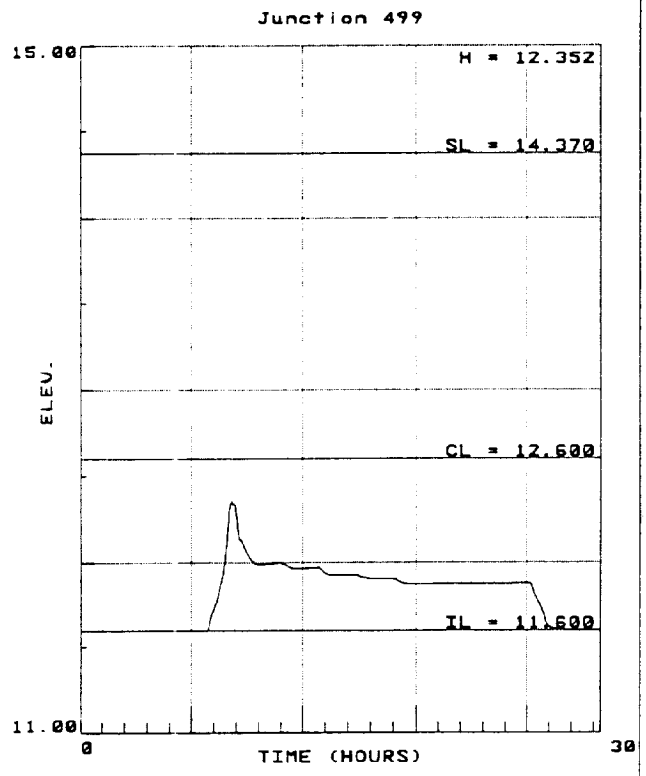
SEA402014

DP 100 YR 11-15-94







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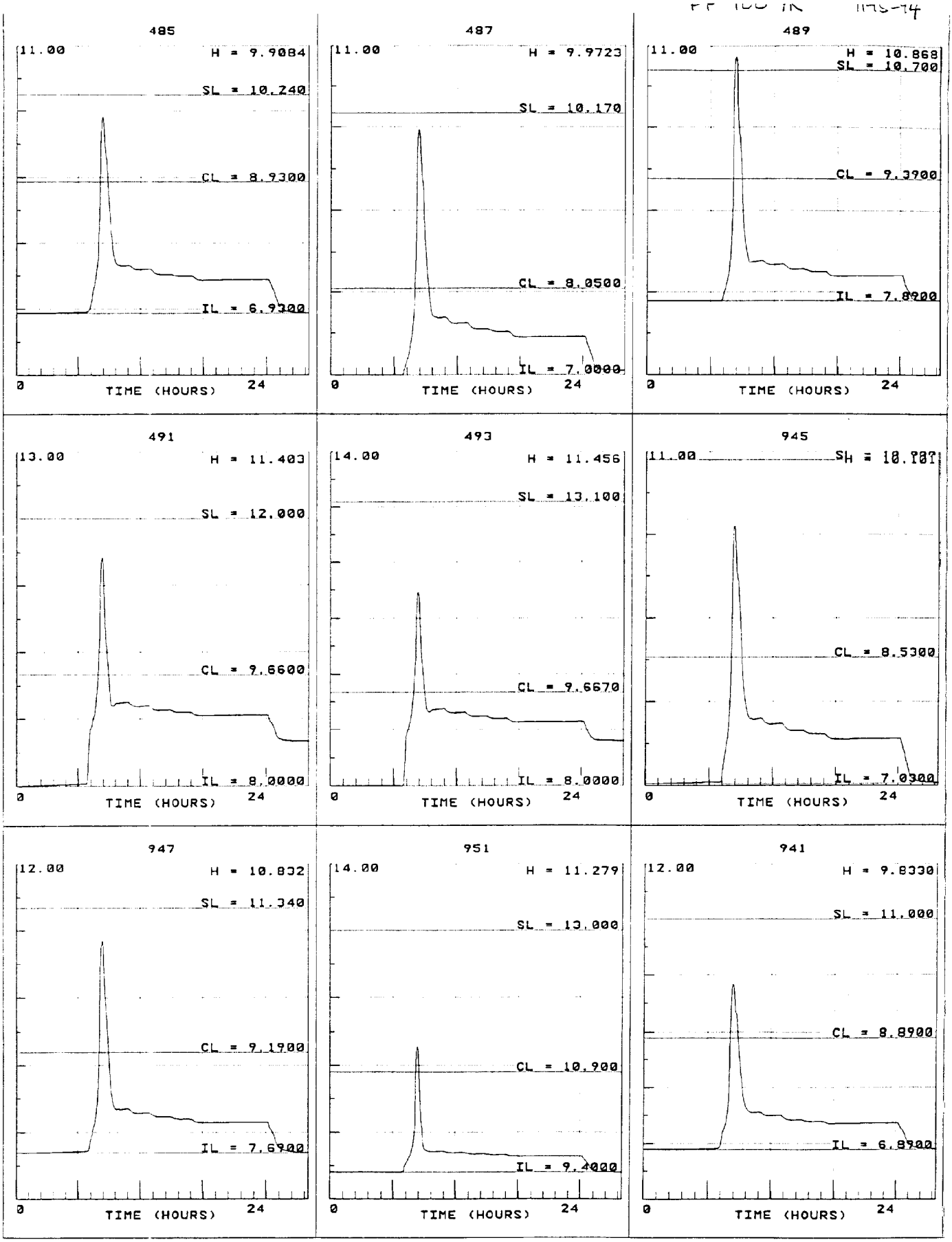

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SEA402016

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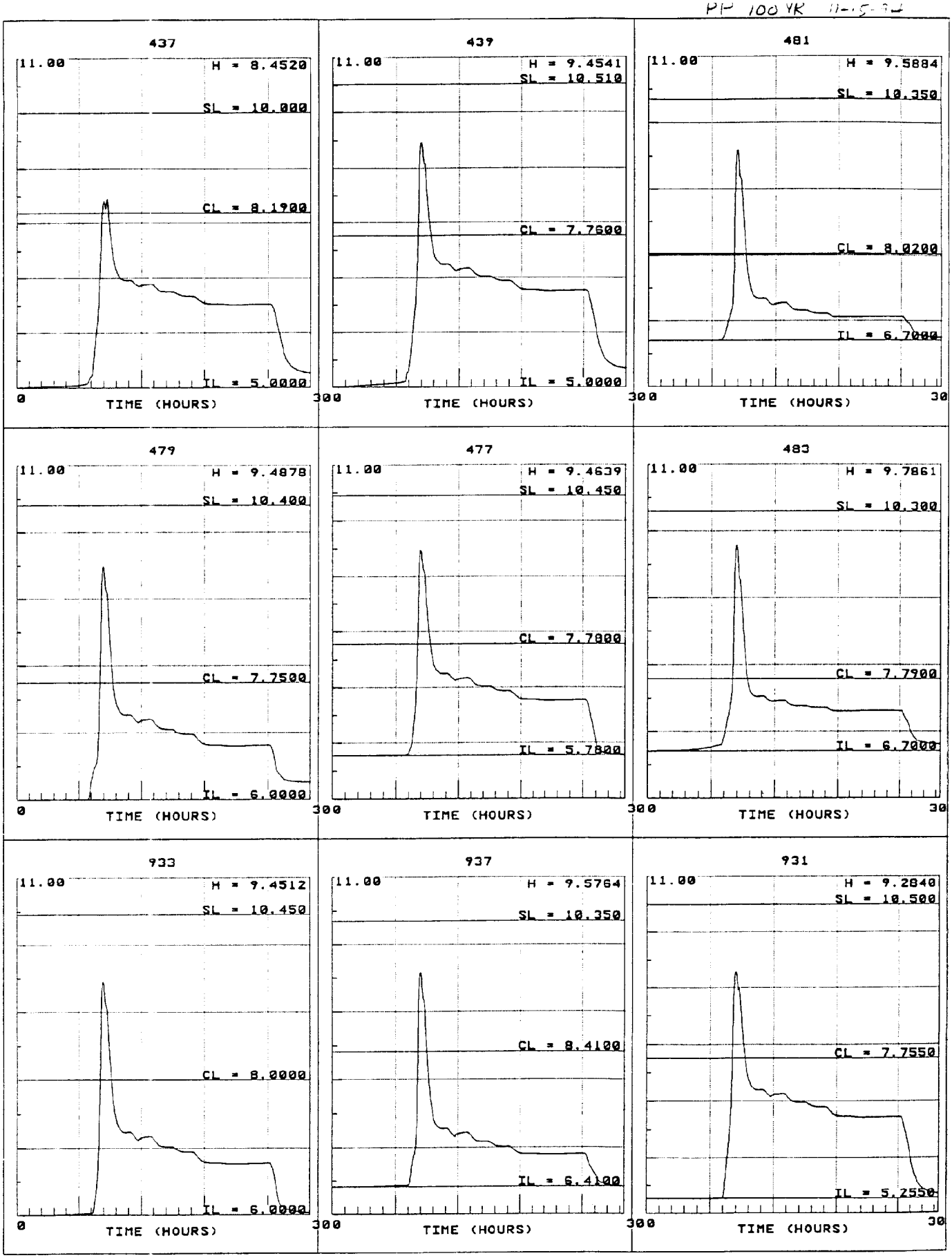

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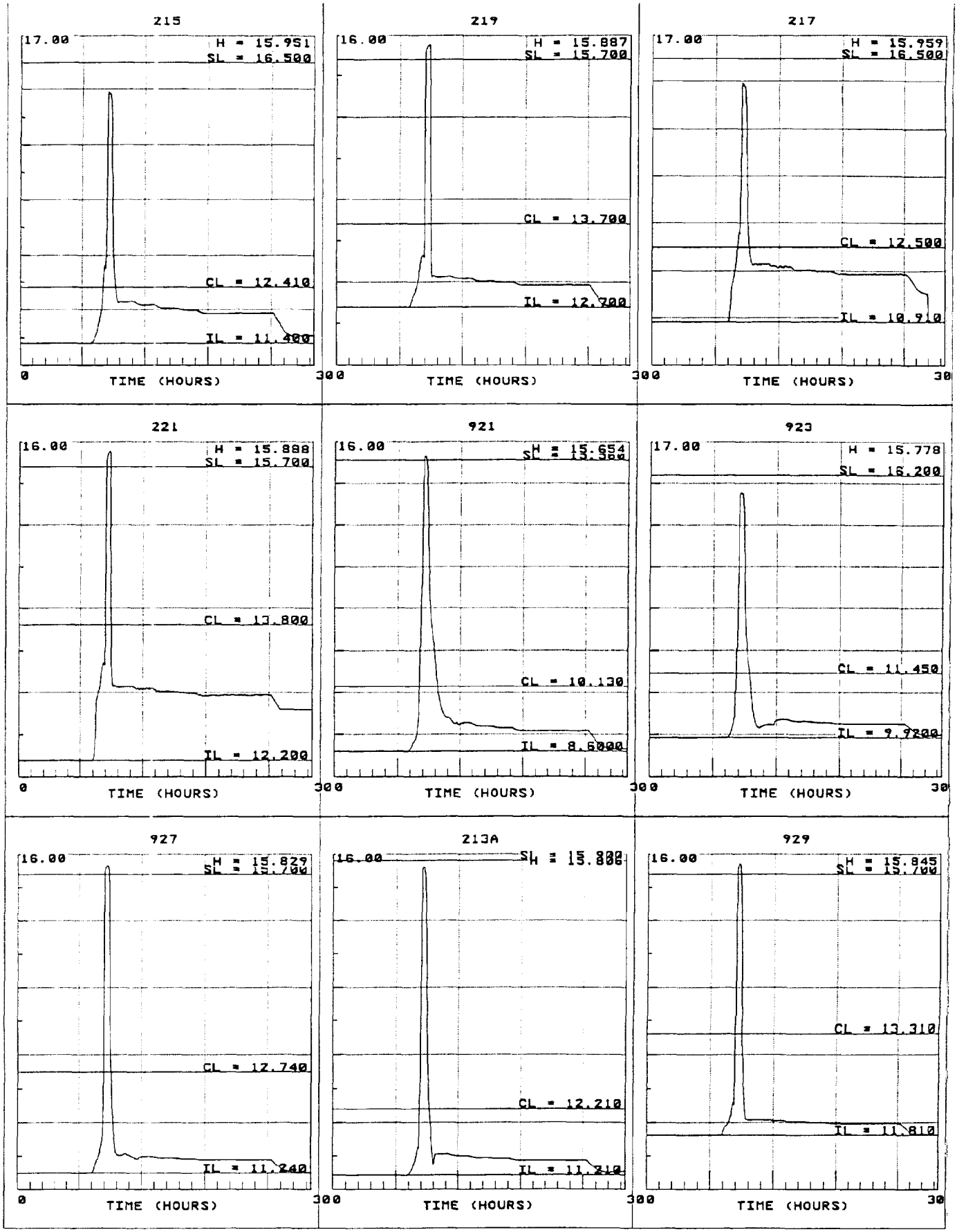

KCSlip4 35473

SEA402018

APPENDIX F

6 Month Water Quality Analysis (Oil/Water Separation)

KING COUNTY INTERNATIONAL AIRPORT
PROPOSED OIL/WATER SEPARATORS 6 MONTH FLOWS

BASIN SUMMARY

```
BASIN ID: SEP.A        NAME: OIL/WATER SEPARATOR A
SBUH METHODOLOGY
TOTAL AREA.......:  86.64 Acres      BASEFLOWS:    0.00 cfs
RAINFALL TYPE....:     USER1         PERVIOUS AREA
PRECIPITATION....:   0.67 inches       AREA..:    35.72 Acres
TIME INTERVAL....:     10.00 min       CN....:    90.00
TIME OF CONC.....:  65.56 min        IMPERVIOUS AREA
ABSTRACTION COEFF:   0.20              AREA..:    50.92 Acres
                                       CN....:    98.00
TcReach - Sheet   L: 300.00 ns:0.1500 p2yr: 2.00 s:0.0100
TcReach - Channel L:1000.00 kc:42.00 s:0.0050
TcReach - Channel L: 550.00 kc:42.00 s:0.0014
TcReach - Channel L: 830.00 kc:42.00 s:0.0005
PEAK RATE:    3.36 cfs  VOL:    2.40 Ac-ft  TIME:     490 min

BASIN ID: SEP.B        NAME: OIL/WATER SEPARATOR B
SBUH METHODOLOGY
TOTAL AREA.......:  49.09 Acres      BASEFLOWS:    0.00 cfs
RAINFALL TYPE....:     USER1         PERVIOUS AREA
PRECIPITATION....:   0.67 inches       AREA..:     4.13 Acres
TIME INTERVAL....:     10.00 min       CN....:    90.00
TIME OF CONC.....:  25.25 min        IMPERVIOUS AREA
ABSTRACTION COEFF:   0.20              AREA..:    44.96 Acres
                                       CN....:    98.00
TcReach - Sheet   L: 300.00 ns:0.0110 p2yr: 2.00 s:0.0050
TcReach - Channel L:3000.00 kc:42.00 s:0.0040
PEAK RATE:    4.32 cfs  VOL:    1.82 Ac-ft  TIME:     480 min


BASIN ID: SEP.C        NAME: OIL/WATER SEPARATOR C
SBUH METHODOLOGY
TOTAL AREA.......:  30.73 Acres      BASEFLOWS:    0.00 cfs
RAINFALL TYPE....:     USER1         PERVIOUS AREA
PRECIPITATION....:   0.67 inches       AREA..:     0.80 Acres
TIME INTERVAL....:     10.00 min       CN....:    90.00
TIME OF CONC.....:  29.92 min        IMPERVIOUS AREA
ABSTRACTION COEFF:   0.20              AREA..:    29.93 Acres
                                       CN....:    98.00
TcReach - Sheet   L: 150.00 ns:0.0110 p2yr: 2.00 s:0.0050
TcReach - Channel L:3100.00 kc:42.00 s:0.0022
PEAK RATE:    2.68 cfs  VOL:    1.19 Ac-ft  TIME:     480 min
```

BASIN SUMMARY

```
BASIN ID: SEP.D        NAME: OUL/WATER SEPARATOR D
SBUH METHODOLOGY
TOTAL AREA.......:   4.79 Acres      BASEFLOWS:    0.00 cfs
RAINFALL TYPE....:     USER1         PERVIOUS AREA
PRECIPITATION....:   0.67 inches       AREA..:     0.25 Acres
TIME INTERVAL....:     10.00 min       CN....:    90.00
TIME OF CONC.....:   8.32 min        IMPERVIOUS AREA
ABSTRACTION COEFF:   0.20              AREA..:     4.54 Acres
                                       CN....:    98.00
TcReach - Sheet   L: 100.00 ns:0.0110 p2yr: 2.00 s:0.0050
TcReach - Channel L: 900.00 kc:42.00 s:0.0040
PEAK RATE:    0.57 cfs  VOL:    0.18 Ac-ft  TIME:     480 min


BASIN ID: SEP.E        NAME: OIL/WATER SEPARATOR E
SBUH METHODOLOGY
TOTAL AREA.......:  15.07 Acres      BASEFLOWS:    0.00 cfs
RAINFALL TYPE....:     USER1         PERVIOUS AREA
PRECIPITATION....:   0.67 inches       AREA..:     0.35 Acres
TIME INTERVAL....:     10.00 min       CN....:    90.00
TIME OF CONC.....:  11.53 min        IMPERVIOUS AREA
ABSTRACTION COEFF:   0.20              AREA..:    14.72 Acres
                                       CN....:    98.00
TcReach - Sheet   L: 150.00 ns:0.0110 p2yr: 2.00 s:0.0050
TcReach - Channel L:1250.00 kc:42.00 s:0.0040
PEAK RATE:    1.76 cfs  VOL:    0.59 Ac-ft  TIME:     480 min


BASIN ID: SEP.F        NAME: OIL/WATER SEPARATOR F
SBUH METHODOLOGY
TOTAL AREA.......:  12.24 Acres      BASEFLOWS:    0.00 cfs
RAINFALL TYPE....:     USER1         PERVIOUS AREA
PRECIPITATION....:   0.67 inches       AREA..:     2.80 Acres
TIME INTERVAL....:     10.00 min       CN....:    90.00
TIME OF CONC.....:  13.08 min        IMPERVIOUS AREA
ABSTRACTION COEFF:   0.20              AREA..:     9.44 Acres
                                       CN....:    98.00
TcReach - Sheet   L: 250.00 ns:0.0110 p2yr: 2.00 s:0.0050
TcReach - Channel L:1200.00 kc:42.00 s:0.0040
PEAK RATE:    1.13 cfs  VOL:    0.40 Ac-ft  TIME:     480 min
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BASIN SUMMARY

```
BASIN ID: SEP.G        NAME: OIL/WATER SEPARATOR G
SBUH METHODOLOGY
TOTAL AREA.......:   4.75 Acres      BASEFLOWS:    0.00 cfs
RAINFALL TYPE....:     USER1         PERVIOUS AREA
PRECIPITATION....:   0.67 inches       AREA..:     1.40 Acres
TIME INTERVAL....:     10.00 min       CN....:    90.00
TIME OF CONC.....:   7.28 min        IMPERVIOUS AREA
ABSTRACTION COEFF:   0.20              AREA..:     3.35 Acres
                                       CN....:    98.00
TcReach - Sheet   L: 180.00 ns:0.0110 p2yr: 2.00 s:0.0050
TcReach - Channel L: 480.00 kc:42.00 s:0.0040
PEAK RATE:    0.44 cfs  VOL:    0.15 Ac-ft  TIME:     480 min


BASIN ID: SEP.H        NAME: OIL/WATER SEPARATOR H
SBUH METHODOLOGY
TOTAL AREA.......:  15.70 Acres      BASEFLOWS:    0.00 cfs
RAINFALL TYPE....:     USER1         PERVIOUS AREA
PRECIPITATION....:   0.67 inches       AREA..:     2.33 Acres
TIME INTERVAL....:     10.00 min       CN....:    90.00
TIME OF CONC.....:  12.60 min        IMPERVIOUS AREA
ABSTRACTION COEFF:   0.20              AREA..:    13.37 Acres
                                       CN....:    98.00
TcReach - Sheet   L: 125.00 ns:0.0110 p2yr: 2.00 s:0.0050
TcReach - Channel L:1500.00 kc:42.00 s:0.0040
PEAK RATE:    1.59 cfs  VOL:    0.55 Ac-ft  TIME:     480 min


BASIN ID: SEP.I        NAME: OIL/WATER SEPARATOR I
SBUH METHODOLOGY
TOTAL AREA.......:  15.77 Acres      BASEFLOWS:    0.00 cfs
RAINFALL TYPE....:     USER1         PERVIOUS AREA
PRECIPITATION....:   0.67 inches       AREA..:     5.80 Acres
TIME INTERVAL....:     10.00 min       CN....:    90.00
TIME OF CONC.....:  11.55 min        IMPERVIOUS AREA
ABSTRACTION COEFF:   0.20              AREA..:     9.97 Acres
                                       CN....:    98.00
TcReach - Sheet   L: 200.00 ns:0.0110 p2yr: 2.00 s:0.0050
TcReach - Channel L:1100.00 kc:42.00 s:0.0040
PEAK RATE:    1.25 cfs  VOL:    0.46 Ac-ft  TIME:     480 min
```

BASIN SUMMARY

```
BASIN ID: SEP.J        NAME: OIL/WATER SEPARATOR J
SBUH METHODOLOGY
TOTAL AREA.......:    9.64 Acres      BASEFLOWS:    0.00 cfs
RAINFALL TYPE....:      USER1         PERVIOUS AREA
PRECIPITATION....:    0.67 inches       AREA..:     0.00 Acres
TIME INTERVAL....:      10.00 min       CN....:    90.00
TIME OF CONC.....:   10.98 min        IMPERVIOUS AREA
ABSTRACTION COEFF:    0.20              AREA..:     9.64 Acres
                                        CN....:    98.00
TcReach - Sheet   L: 170.00 ns:0.0110 p2yr: 2.00 s:0.0050
TcReach - Channel L:1100.00 kc:42.00 s:0.0040
PEAK RATE:    1.16 cfs  VOL:    0.38 Ac-ft  TIME:     480 min


BASIN ID: SEP.K        NAME: OIL/WATER SEPARATOR K
SBUH METHODOLOGY
TOTAL AREA.......:    4.96 Acres      BASEFLOWS:    0.00 cfs
RAINFALL TYPE....:      USER1         PERVIOUS AREA
PRECIPITATION....:    0.67 inches       AREA..:     0.00 Acres
TIME INTERVAL....:      10.00 min       CN....:    90.00
TIME OF CONC.....:    6.43 min        IMPERVIOUS AREA
ABSTRACTION COEFF:    0.20              AREA..:     4.96 Acres
                                        CN....:    98.00
TcReach - Sheet   L: 100.00 ns:0.0110 p2yr: 2.00 s:0.0050
TcReach - Channel L: 600.00 kc:42.00 s:0.0040
PEAK RATE:    0.63 cfs  VOL:    0.20 Ac-ft  TIME:     480 min


BASIN ID: SEP.L        NAME: OIL/WATER SEPARATOR L
SBUH METHODOLOGY
TOTAL AREA.......:    4.04 Acres      BASEFLOWS:    0.00 cfs
RAINFALL TYPE....:      USER1         PERVIOUS AREA
PRECIPITATION....:    0.67 inches       AREA..:     0.00 Acres
TIME INTERVAL....:      10.00 min       CN....:    90.00
TIME OF CONC.....:   13.13 min        IMPERVIOUS AREA
ABSTRACTION COEFF:    0.20              AREA..:     4.04 Acres
                                        CN....:    98.00
TcReach - Sheet   L: 120.00 ns:0.0110 p2yr: 2.00 s:0.0050
TcReach - Channel L:1600.00 kc:42.00 s:0.0040
PEAK RATE:    0.47 cfs  VOL:    0.16 Ac-ft  TIME:     480 min
```

BASIN SUMMARY

```
BASIN ID: SEP.M        NAME: OIL/WATER SEPARATOR M
SBUH METHODOLOGY
TOTAL AREA.......:    6.10 Acres      BASEFLOWS:    0.00 cfs
RAINFALL TYPE....:      USER1         PERVIOUS AREA
PRECIPITATION....:    0.67 inches       AREA..:     0.00 Acres
TIME INTERVAL....:      10.00 min       CN....:    90.00
TIME OF CONC.....:   11.65 min        IMPERVIOUS AREA
ABSTRACTION COEFF:    0.20              AREA..:     6.10 Acres
                                        CN....:    98.00
TcReach - Sheet   L: 275.00 ns:0.0110 p2yr: 2.00 s:0.0050
TcReach - Channel L: 605.00 kc:42.00 s:0.0018
PEAK RATE:    0.73 cfs  VOL:    0.24 Ac-ft  TIME:     480 min


BASIN ID: SEP.N        NAME: OIL/WATER SEPARATOR N
SBUH METHODOLOGY
TOTAL AREA.......:   10.22 Acres      BASEFLOWS:    0.00 cfs
RAINFALL TYPE....:      USER1         PERVIOUS AREA
PRECIPITATION....:    0.67 inches       AREA..:     0.00 Acres
TIME INTERVAL....:      10.00 min       CN....:    90.00
TIME OF CONC.....:   15.33 min        IMPERVIOUS AREA
ABSTRACTION COEFF:    0.20              AREA..:    10.22 Acres
                                        CN....:    98.00
TcReach - Sheet   L: 260.00 ns:0.0110 p2yr: 2.00 s:0.0050
TcReach - Channel L: 200.00 kc:42.00 s:0.0026
TcReach - Channel L: 190.00 kc:42.00 s:0.0134
TcReach - Channel L: 820.00 kc:42.00 s:0.0031
TcReach - Channel L: 170.00 kc:42.00 s:0.0019
PEAK RATE:    1.15 cfs  VOL:    0.40 Ac-ft  TIME:     480 min
BASIN ID: SEP.O        NAME: OIL/WATER SEPARATOR O
SBUH METHODOLOGY
TOTAL AREA.......:   16.97 Acres      BASEFLOWS:    0.00 cfs
RAINFALL TYPE....:      USER1         PERVIOUS AREA
PRECIPITATION....:    0.67 inches       AREA..:     0.00 Acres
TIME INTERVAL....:      10.00 min       CN....:    90.00
TIME OF CONC.....:   12.62 min        IMPERVIOUS AREA
ABSTRACTION COEFF:    0.20              AREA..:    16.97 Acres
                                        CN....:    98.00
TcReach - Sheet   L: 120.00 ns:0.0110 p2yr: 2.00 s:0.0050
TcReach - Channel L:1520.00 kc:42.00 s:0.0040
PEAK RATE:    1.99 cfs  VOL:    0.67 Ac-ft  TIME:     480 min
```

BASIN SUMMARY

BASIN ID: SEP.P NAME: OIL/WATER SEPARATOR P
SBUH METHODOLOGY
TOTAL AREA.....: 9.68 Acres
RAINFALL TYPE....: USER1
PRECIPITATION....: 0.67 inches
TIME INTERVAL....: 10.00 min
TIME OF CONC.....: 10.92 min
ABSTRACTION COEFF: 0.20

BASEFLOWS: 0.00 cfs
PERVIOUS AREA
AREA..: 1.00 Acres
CN....: 90.00
IMPERVIOUS AREA
AREA..: 8.68 Acres
CN....: 98.00

TcReach - Sheet L: 200.00 ns:0.0110 p2yr: 2.00 s:0.0050
TcReach - Channel L:1000.00 kc:42.00 s:0.0040
PEAK RATE: 1.06 cfs VOL: 0.35 Ac-ft TIME: 480 min

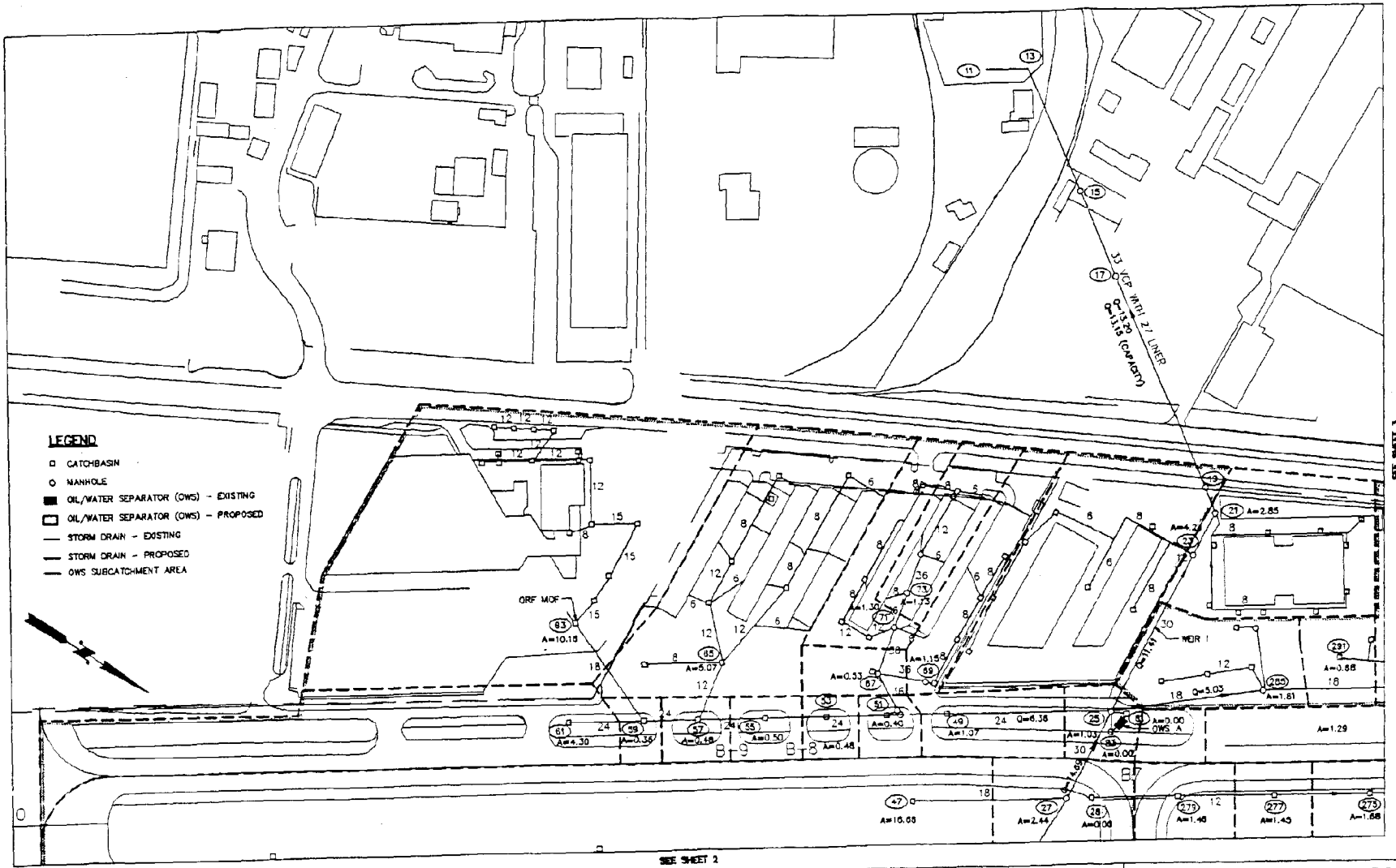
BASIN ID: SEP.Q NAME: OIL/WATER SEPARATOR Q
SBUH METHODOLOGY
TOTAL AREA.....: 7.14 Acres
RAINFALL TYPE....: USER1
PRECIPITATION....: 0.67 inches
TIME INTERVAL....: 10.00 min
TIME OF CONC.....: 9.98 min
ABSTRACTION COEFF: 0.20

BASEFLOWS: 0.00 cfs
PERVIOUS AREA
AREA..: 0.50 Acres
CN....: 90.00
IMPERVIOUS AREA
AREA..: 6.64 Acres
CN....: 98.00

TcReach - Sheet L: 200.00 ns:0.0110 p2yr: 2.00 s:0.0050
TcReach - Channel L: 850.00 kc:42.00 s:0.0040
PEAK RATE: 0.82 cfs VOL: 0.27 Ac-ft TIME: 480 min

APPENDIX F

Schematic Design Plans Sheets 1 to 8



SCALE IN FEET

SAJAN INC.
CONSULTING ENGINEERS

DEPT. OF CONSTRUCTION & FACILITIES MANAGEMENT
KING COUNTY INTERNATIONAL AIRPORT

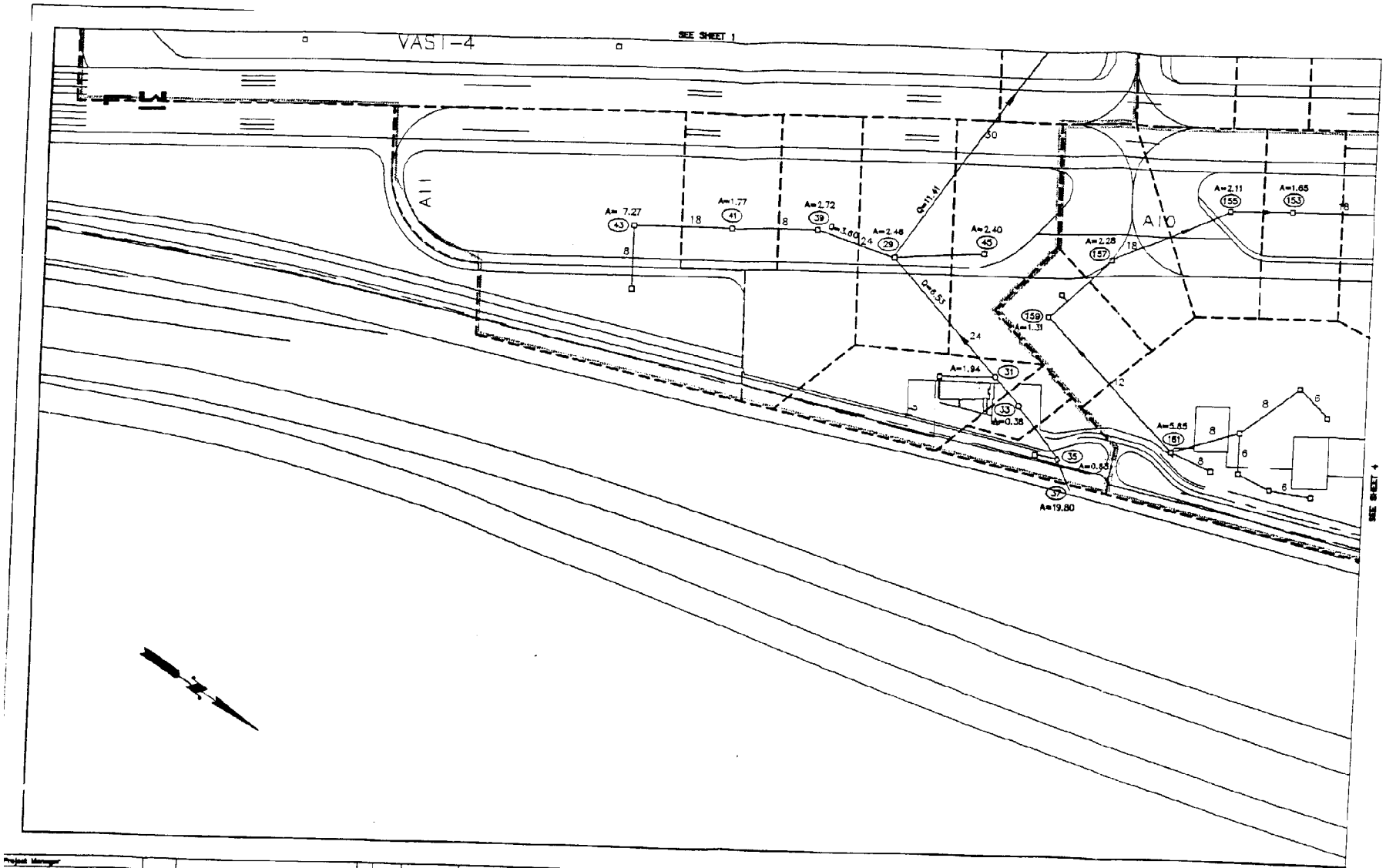
STORM DRAINAGE PLAN

JOB NUMBER
CONTRACT NO.

DATE | REVISION | BY | APP'D

KCSlip4 35482

SEA402027



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Supervisor				
Designed By				
Checked By				
Drafted By				
Plan Engr.				JOB NUMBER
Proj. Mgr.				
Publish/Submitted	DATE	REVISION	BY / APPD	CONTRACT NO.

0 100 200 300 400
SCALE IN FEET

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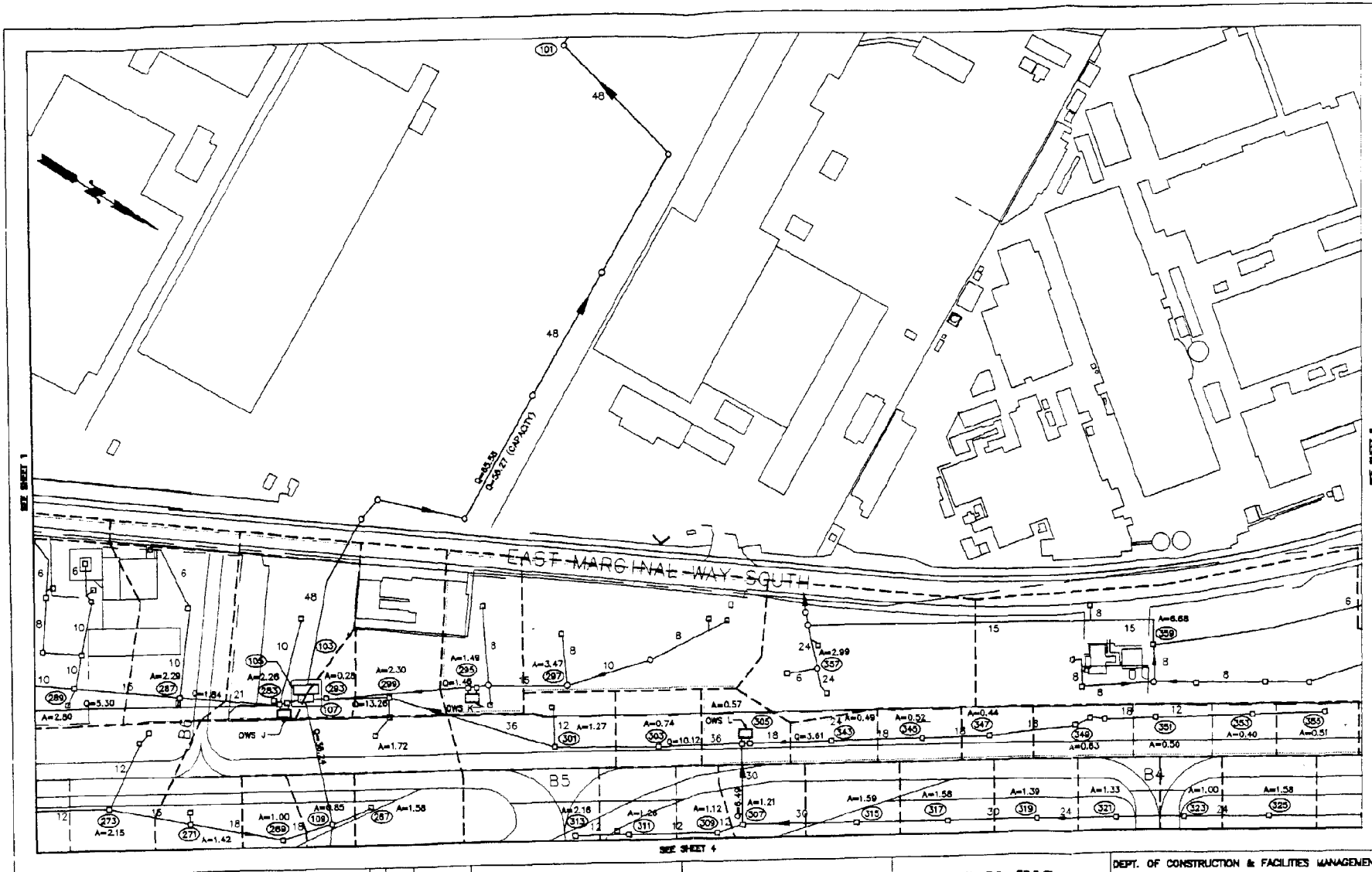
KING COUNTY INTERNATIONAL AIRPORT

STORM DRAINAGE PLAN

SCALE 1"=100'

KCSlip4 35483

SEA402028



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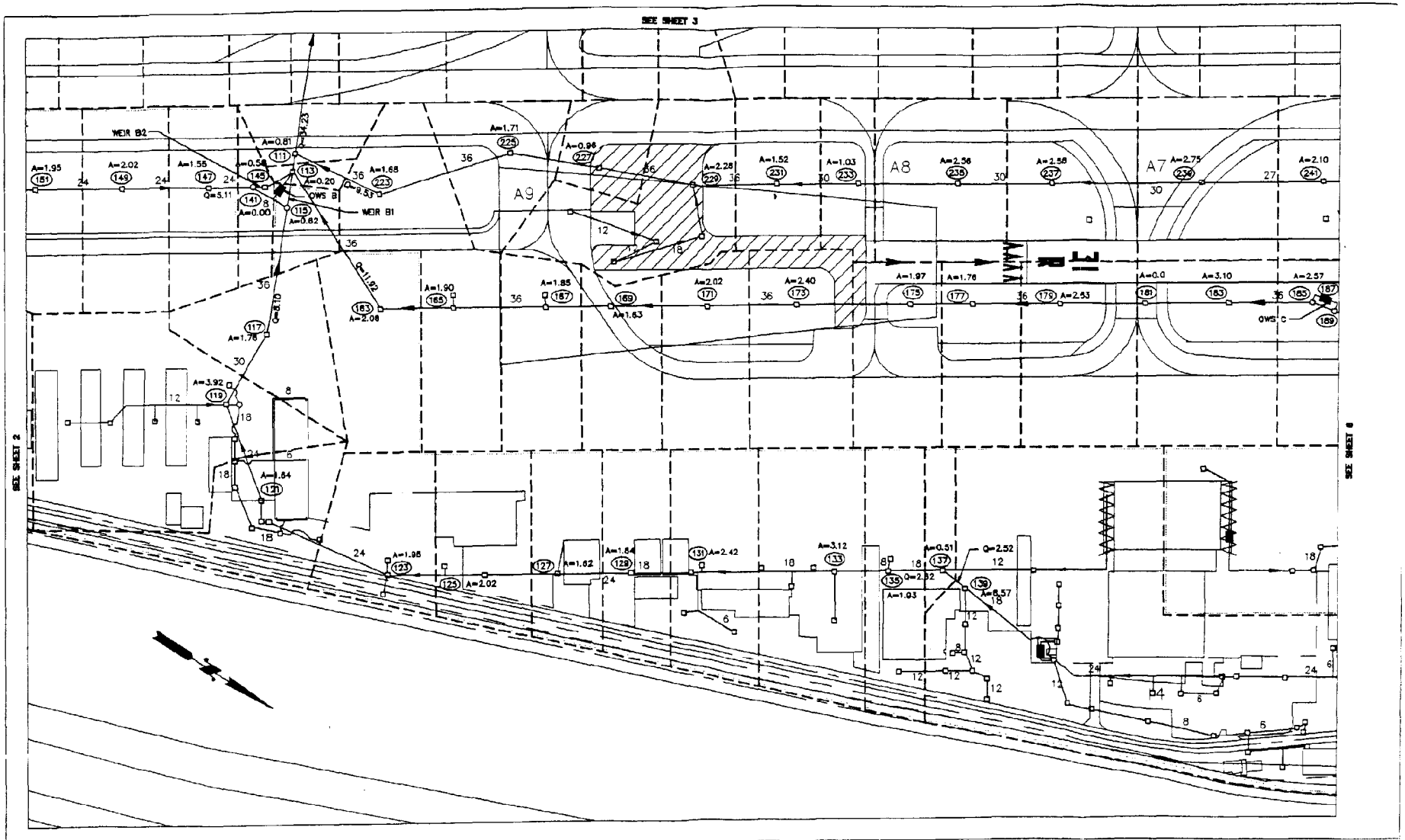

Project Manager					
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Architect/Specialist	DATE	REVISION	BY	APP'D	

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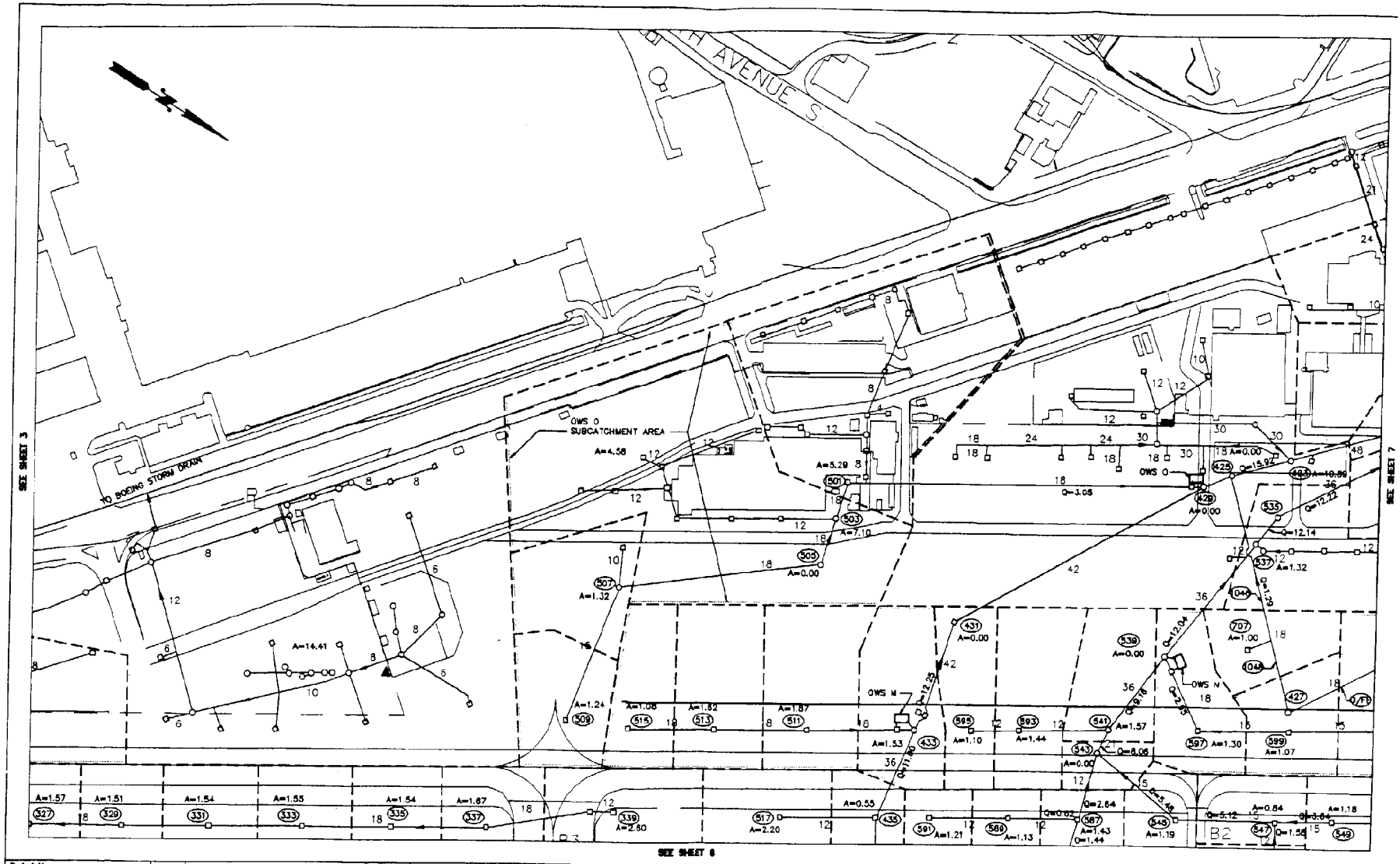
KING COUNTY INTERNATIONAL AIRPORT

STORM DRAINAGE PLAN

7-13-88
SCALE 1"=100'

KCSlip4 35485

SEA402030



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Supervisor				
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Drafted By				JOB NUMBER
Plan Engr.				
Profile, Plan By				CONTRACT NO.
Architect/Specialist	DATE	REVISION	BY	APP'D

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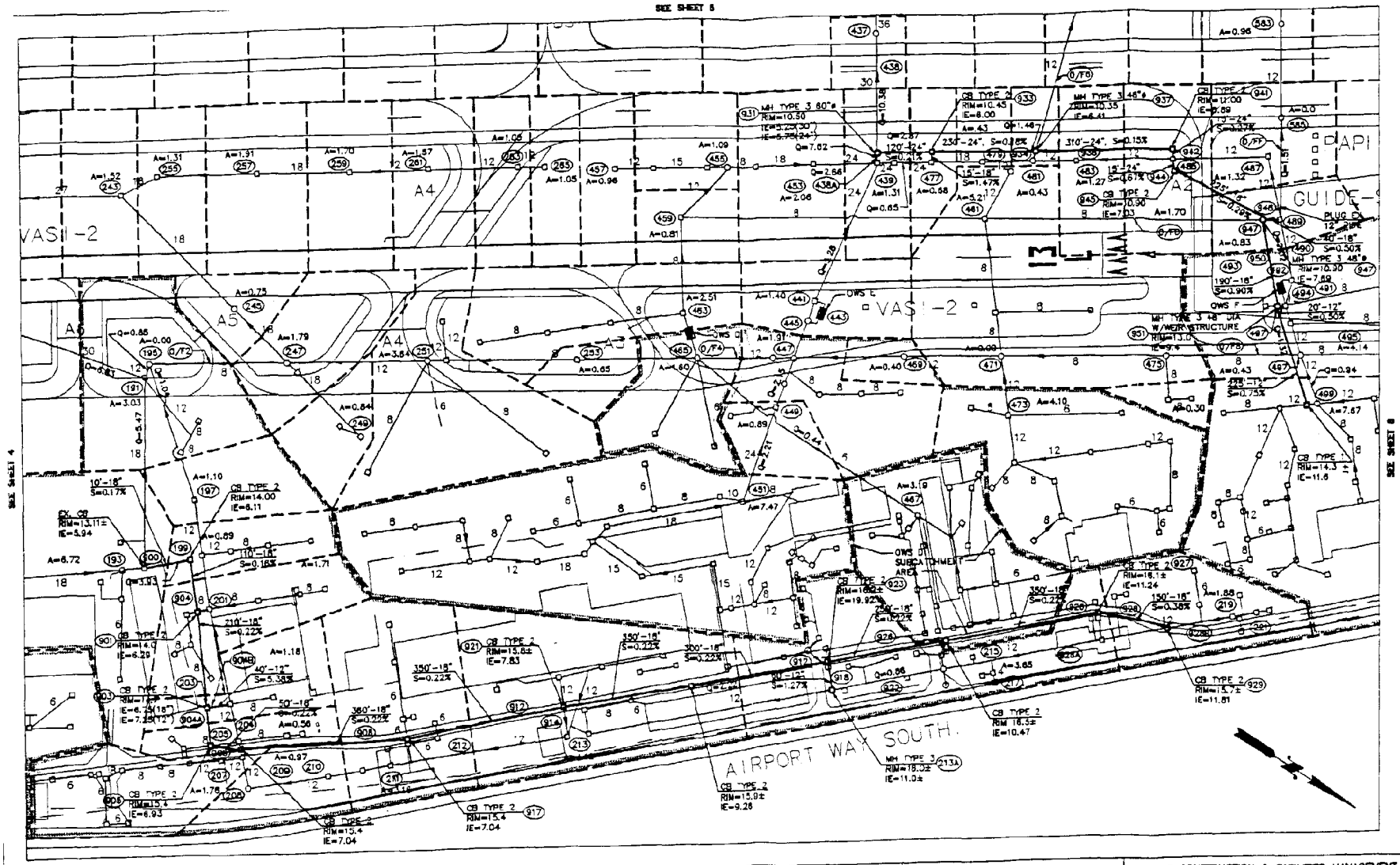
KING COUNTY INTERNATIONAL AIRPORT

STORM DRAINAGE PLAN

KCSlip4 35486

SEA402031



Project Manager					
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Designed By					
Checked By					
Drafted By					
Plan Engr.					
Proj.Mgr. Plan By					
Architect/Specialist	DATE	REVISIONS	BY	APP'D	

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0 100 200 300 400

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KING COUNTY INTERNATIONAL AIRPORT

STORM DRAINAGE PLAN

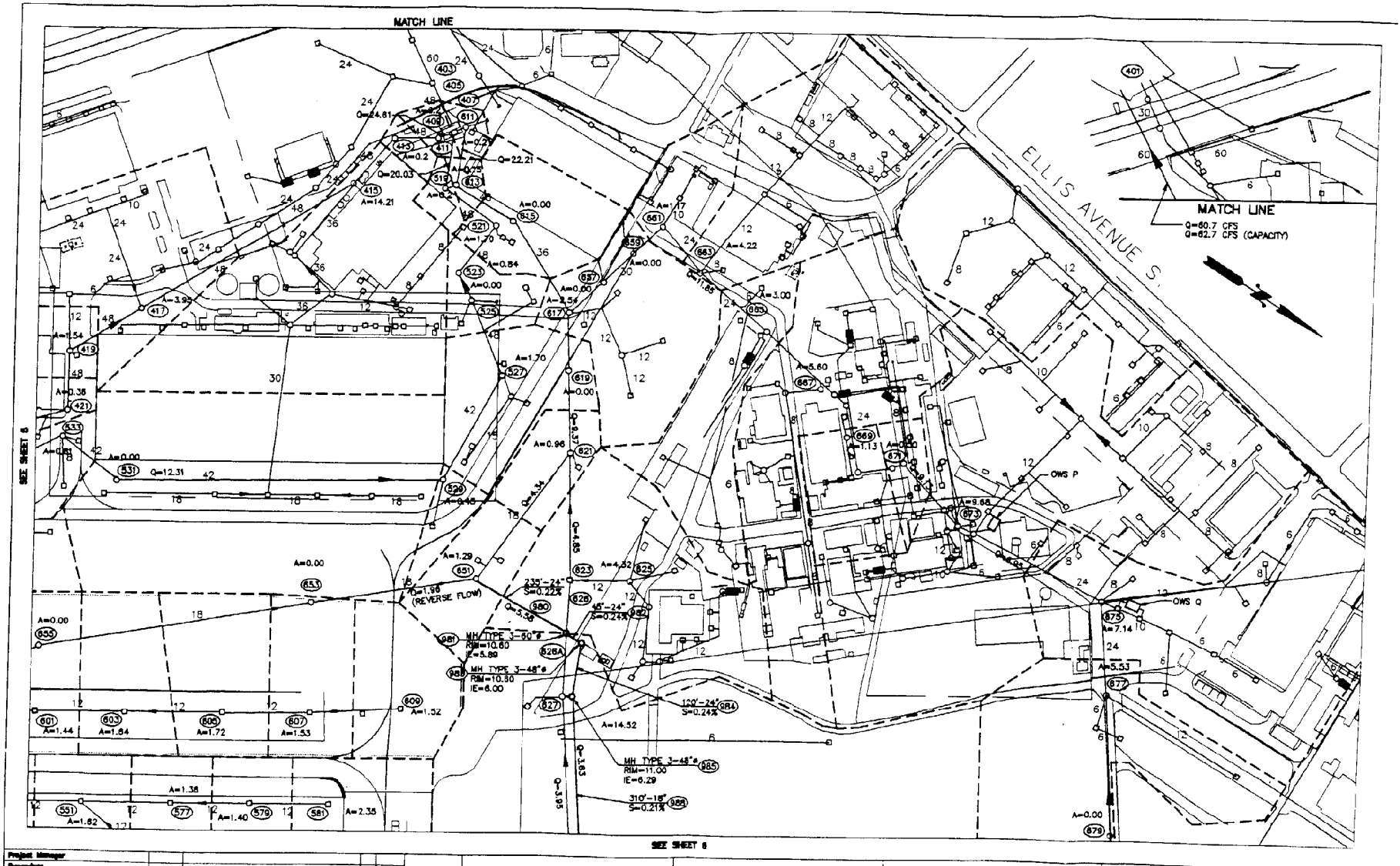
4-7-88

SCALE 1"=100'

SHEET 4 OF 8

KCSlip4 35487

SEA402032



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Designed By				
Checked By				
Drafted By				JOB NUMBER
Plan Engr.				
Prelim. Plan By				CONTRACT NO.
Architect/Specialist	DATE	REVISION	BY	APP'D

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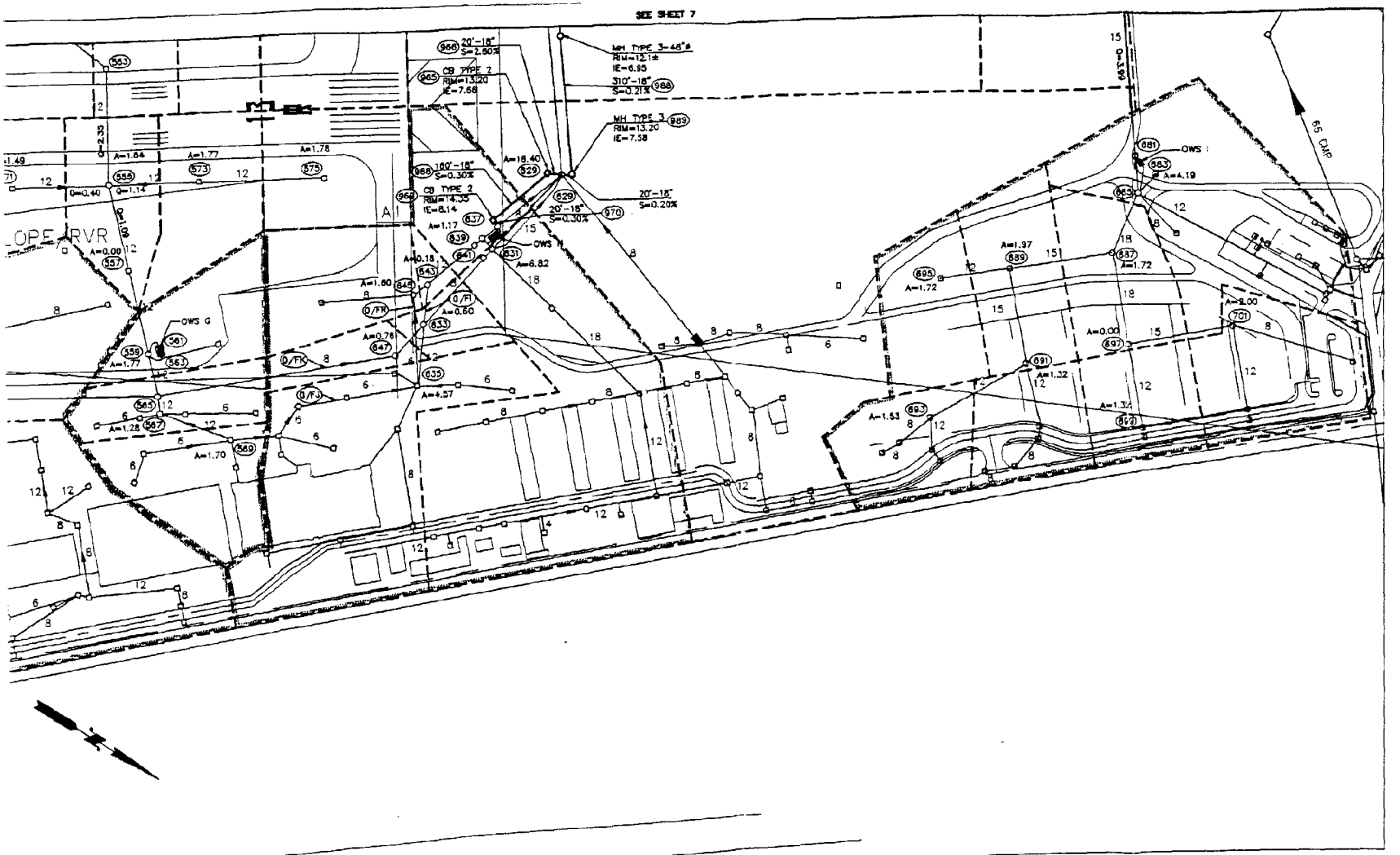
STORM DRAINAGE PLAN

7-19-
SCALE
1"=1

KCSlip4 35488

SEA402033



SCALE IN FEET

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KING COUNTY INTERNATIONAL AIRPORT

STORM DRAINAGE PLAN

SCALE 1"=100'

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SEA402034