

6	0	0
7	0	0
8	0	0
9	0	0
10	0	0

10:28:23 7- 6- 1984

*** HIGH VCM IN INCINERATOR AREA....POINT # 1
VCM CONCENTRATION = 18.6 PPM

NOT REPORTABLE
<10ppm for all
hourly averages

10:29:14 7- 6- 1984

**** HIGH VCM IN INCINERATOR AREA....POINT # 2
VCM CONCENTRATION = 18.3 PPM

	#1	#2
10:28:23	18.6	18.3
until		
10:36:19	18.0	17.7
	13.4	13.2
	15.2	15.1
	11.0	64.3
	76.3	

10:30:22 7- 6- 1984

*** HIGH VCM IN INCINERATOR AREA....POINT # 1
VCM CONCENTRATION = 18.0 PPM

$\frac{76.3}{30} = 2.54$ $\frac{64.3}{30} = 2.14$

10:31:13 7- 6- 1984

**** HIGH VCM IN INCINERATOR AREA....POINT # 2
VCM CONCENTRATION = 17.7 PPM

10:32:21 7- 6- 1984

**** HIGH VCM IN INCINERATOR AREA....POINT # 1
VCM CONCENTRATION = 13.4 PPM

CCR 000021479)

10:33:12 7- 6- 1984

*** HIGH VCM IN INCINERATOR AREA....POINT # 2
VCM CONCENTRATION = 13.2 PPM

10:34:20 7- 6- 1984

*** HIGH VCM IN INCINERATOR AREA....POINT # 1
VCM CONCENTRATION = 15.3 PPM

10:35:11 7- 6- 1984

*** HIGH VCM IN INCINERATOR AREA....POINT # 2
VCM CONCENTRATION = 15.1 PPM

10:36:19 7- 6- 1984

*** HIGH VCM IN INCINERATOR AREA....POINT # 1
VCM CONCENTRATION = 11.0 PPM

11:00:13 7- 6- 1984

LEAKS DURING THE PAST HOUR:

AREA 1	(CAR-171, PTS 1, 2, 3) =	0 LEAKS
AREA 2	(CAR-171, PTS 1, 4) =	0 LEAKS
AREA 3	(CAR-171, PTS 4, 9) =	0 LEAKS
AREA 4	(CAR-171, PTS 1, 5) =	0 LEAKS
AREA 5	(CAR-171, PT 6) =	0 LEAKS
AREA 6	(CAR-171, PT 7) =	0 LEAKS
AREA 7	(CAR-171, PT 8) =	0 LEAKS
AREA 8	(CAR-171, PT 10) =	0 LEAKS
AREA 9	(CAR-401, PT 1) =	0 LEAKS
AREA 10	(CAR-401, PT 2) =	0 LEAKS
AREA 11	(CAR-401, PTS 3, 4, 5, 8) =	0 LEAKS
AREA 12	(CAR-401, PT 6) =	0 LEAKS
AREA 13	(CAR-401, PT 7) =	0 LEAKS
AREA 14	(CAR-401, PTS 9, 10) =	0 LEAKS

NUMBER OF TIMES OVER 10 PPM FOR EACH POINT:

POINT	PROCESS AREA	OFF-SITES	INCINERATOR
1	0	0	5
2	0	0	4
3	0	0	
4	0	0	
5	0	0	
6	0	0	
7	0	0	
8	0	0	
9	0	0	
10	0	0	

11:47:46 7- 6- 1984

**** CAR-904 OFF LINE ****

12:00:04 7- 6- 1984

LEAKS DURING THE PAST HOUR:

AREA 1	(CAR-171, PTS 1, 2, 3) =	0 LEAKS
AREA 2	(CAR-171, PTS 1, 4) =	0 LEAKS
AREA 3	(CAR-171, PTS 4, 9) =	0 LEAKS
AREA 4	(CAR-171, PTS 1, 5) =	0 LEAKS
AREA 5	(CAR-171, PT 6) =	0 LEAKS
AREA 6	(CAR-171, PT 7) =	0 LEAKS
AREA 7	(CAR-171, PT 8) =	0 LEAKS
AREA 8	(CAR-171, PT 10) =	0 LEAKS
AREA 9	(CAR-401, PT 1) =	0 LEAKS

CCR 000021481)

DATE: 6-20-84

S/S SIGNATURE: J. C. Vickers

REPORT OF EPA VCM VENT NON-COMPLIANCE (See Note 1)

1) Area of Violation: Incinerator

2) Time of Violation: 1250 to 1300

3) Duration of Non-Compliance: 10 minutes

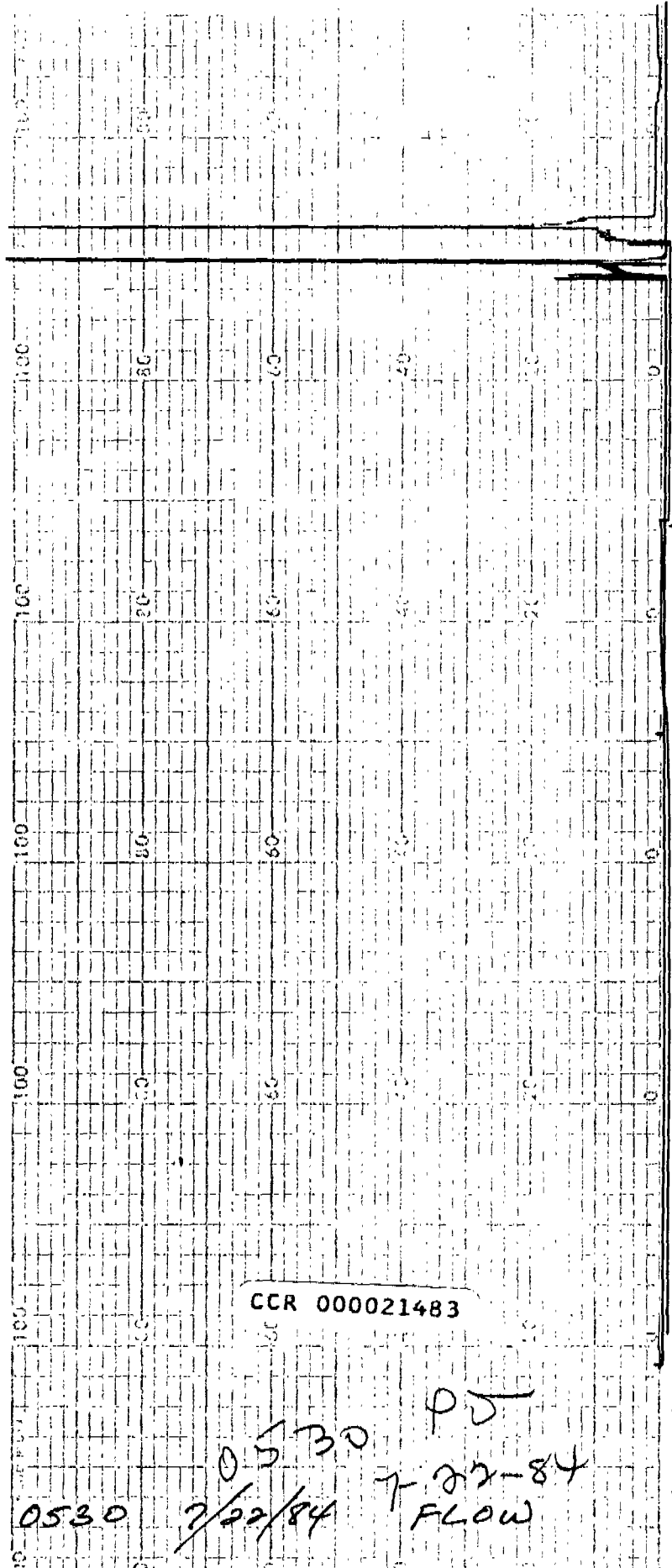
4) Reason for Violation (See Note 2): Low combustion air -
just people working on grates - #1 went
down - try to start #2 + lost it - went back
to #1

5) Corrective Action Taken: Start back up

Notes:

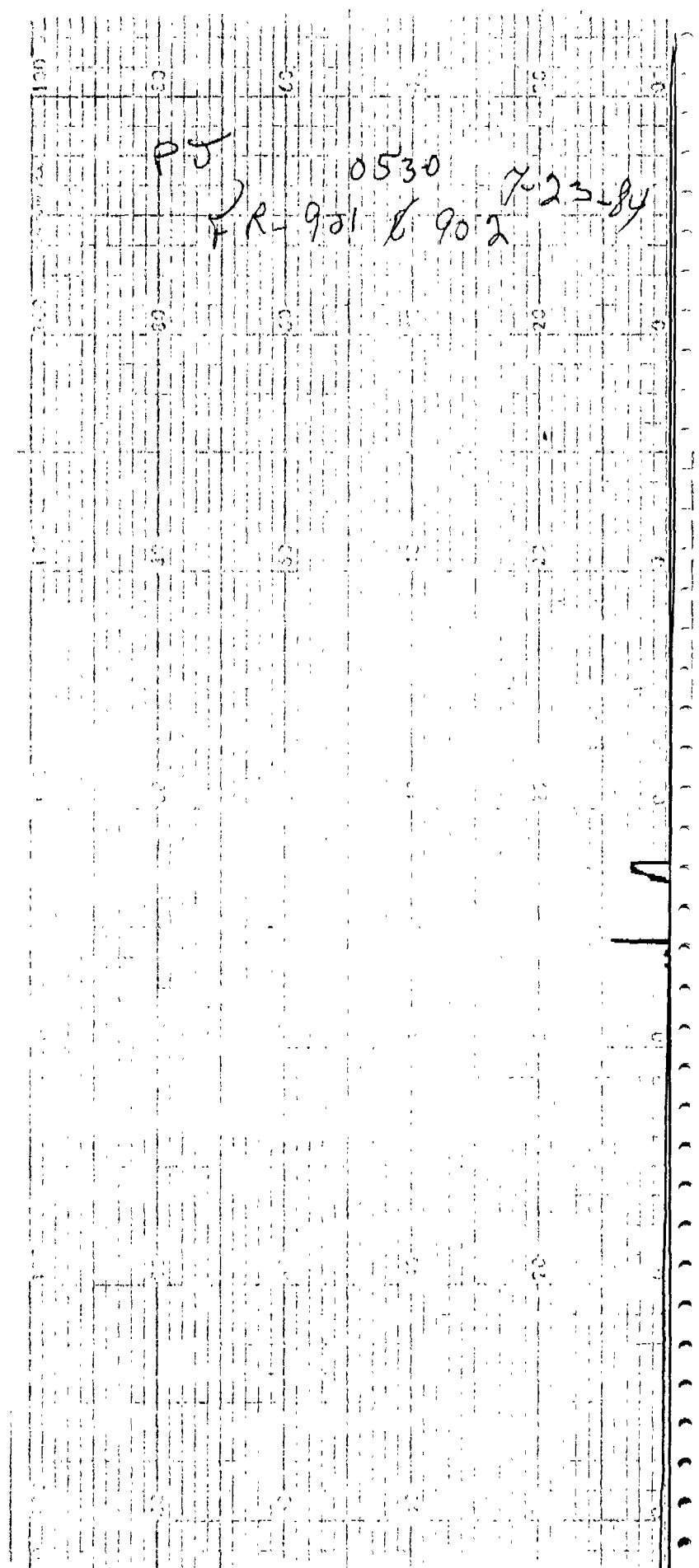
- 1) This report must be completed anytime that an hourly average emission from the incinerator or carbon beds exceeds 10 ppm VCM or the emission from the oxy unit exceeds 0.2 grams VCM per kilogram of EDC produced or a vent by-passes the incinerator.
- 2) Explain any circumstances which relate to the incident of non-compliance (i.e.; the incinerator was down so many hours because....)

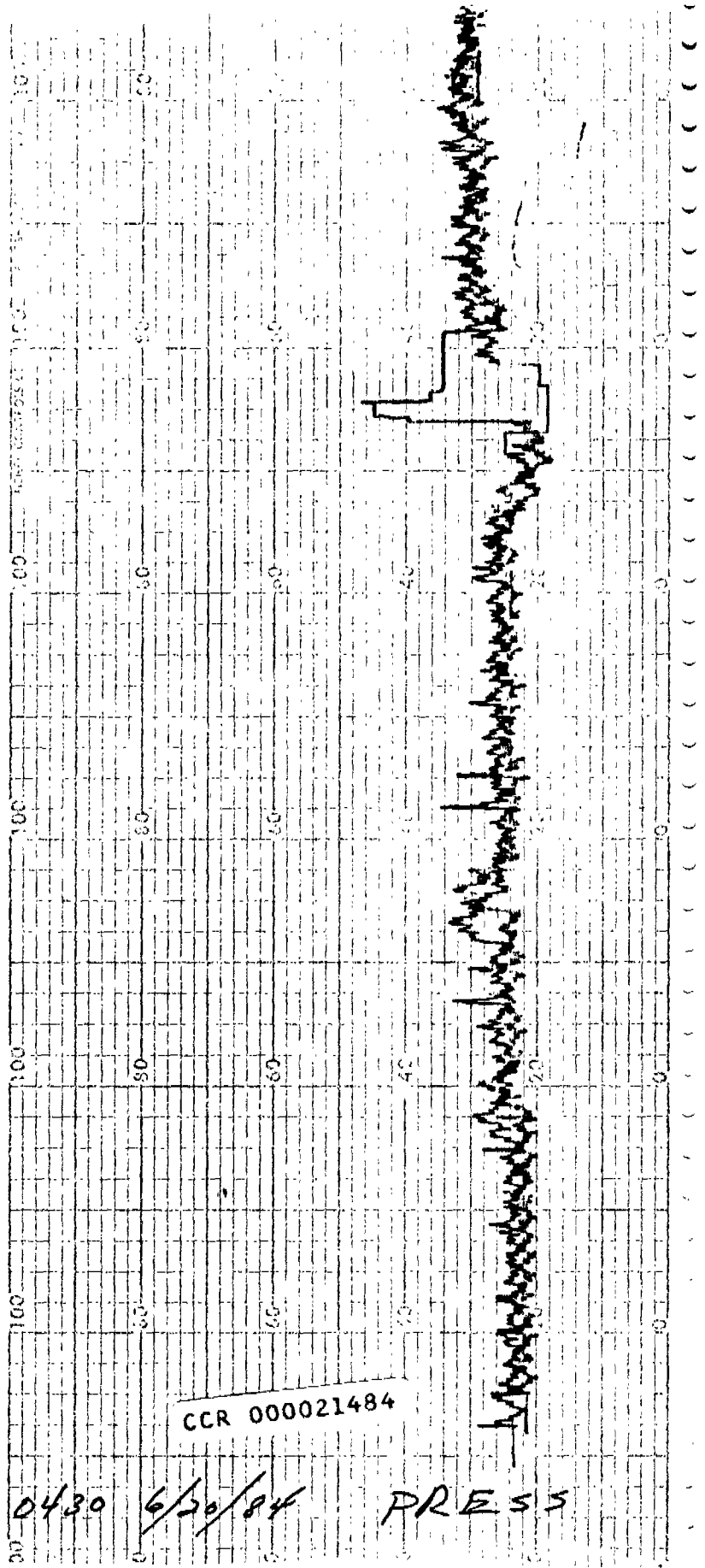
Auto SD
10 minutes
Flame failure due to an instrument malfunction



CCR 000021483

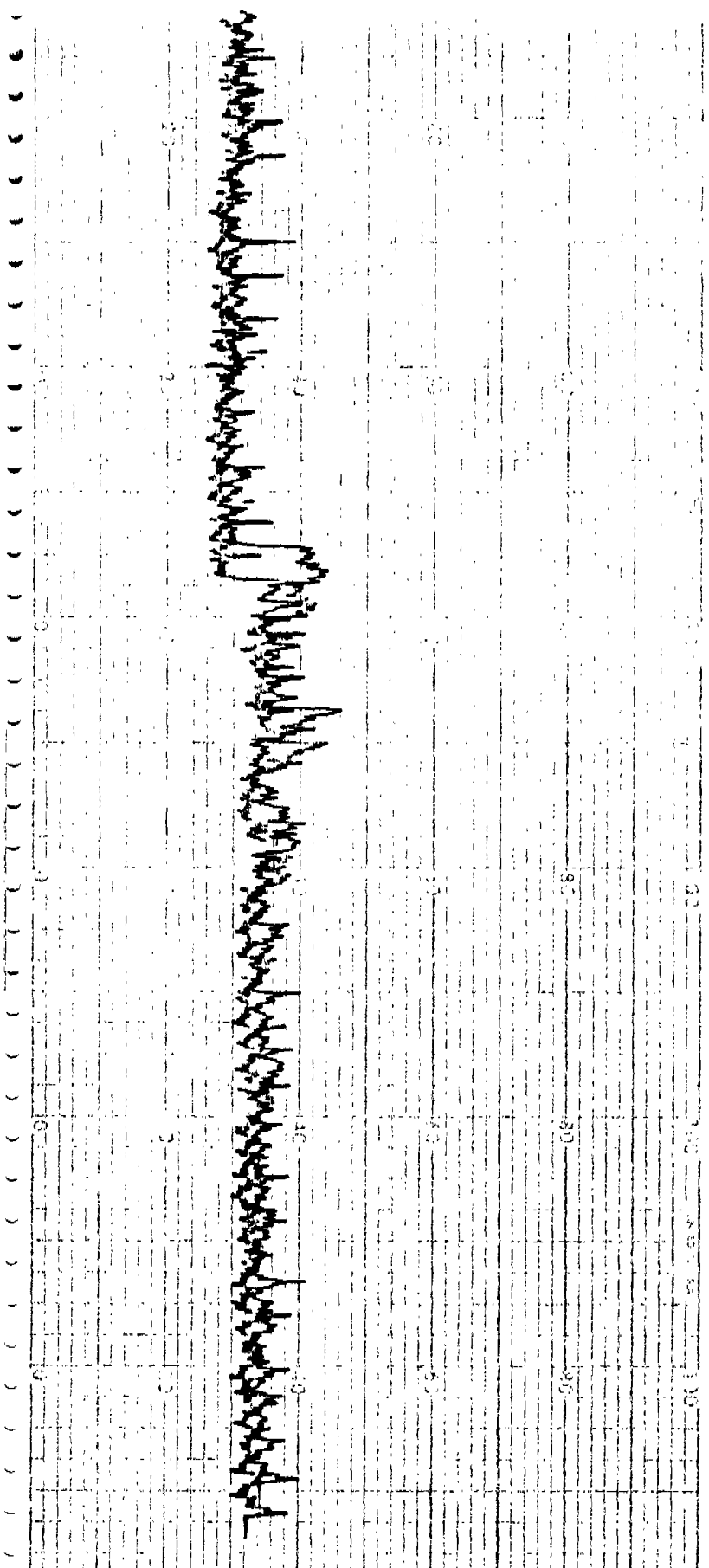
0530 0530
7/22/84 7-22-84
FLOW

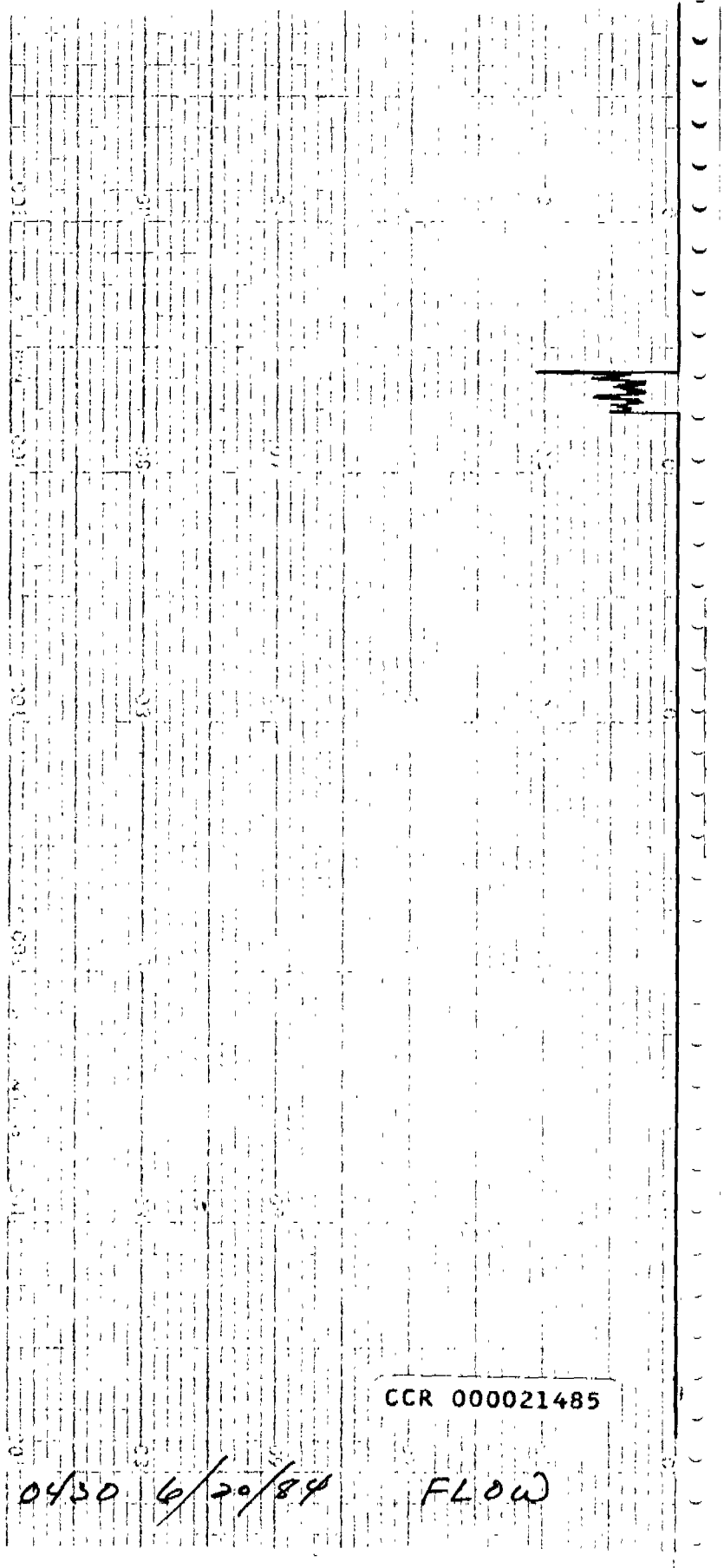




CCR 000021484

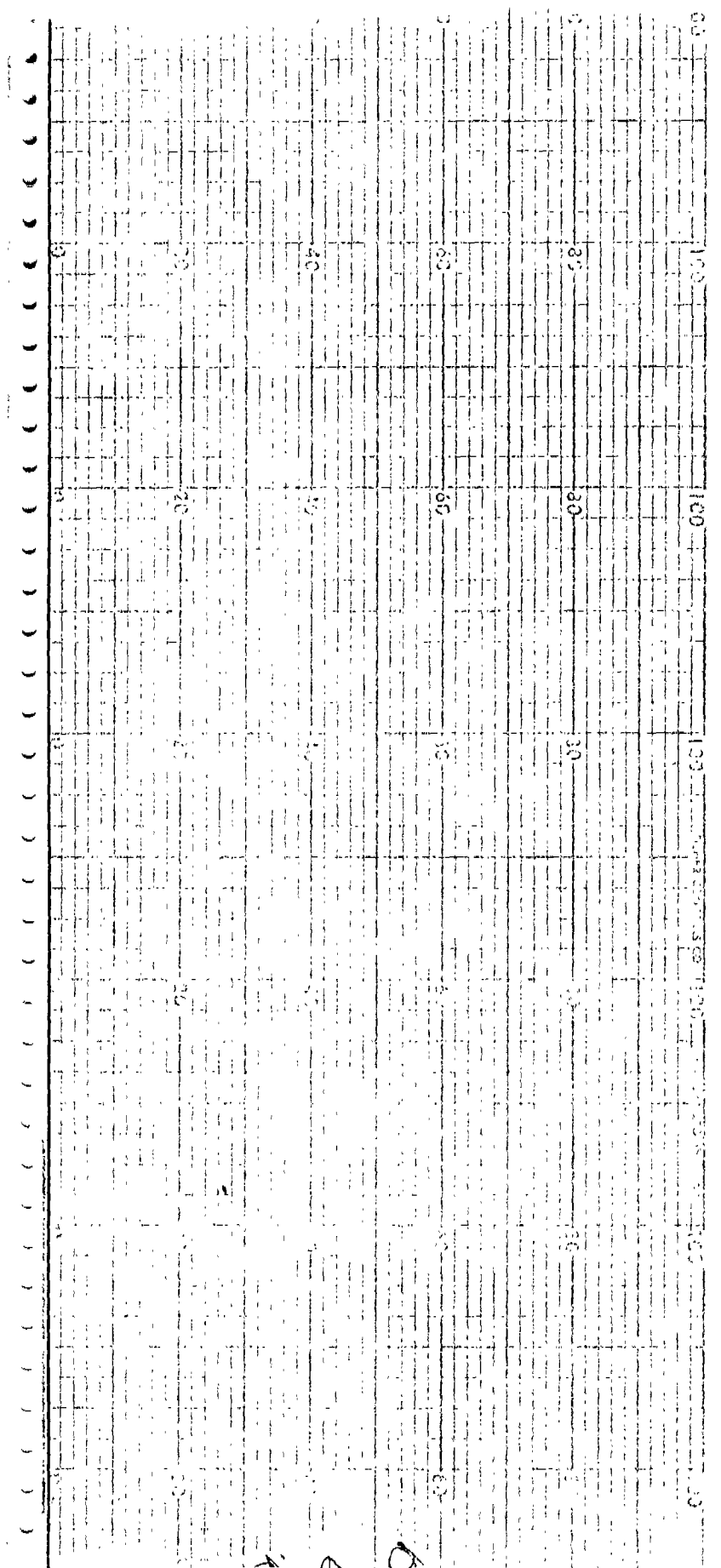
0430 6/30/84 PRESS

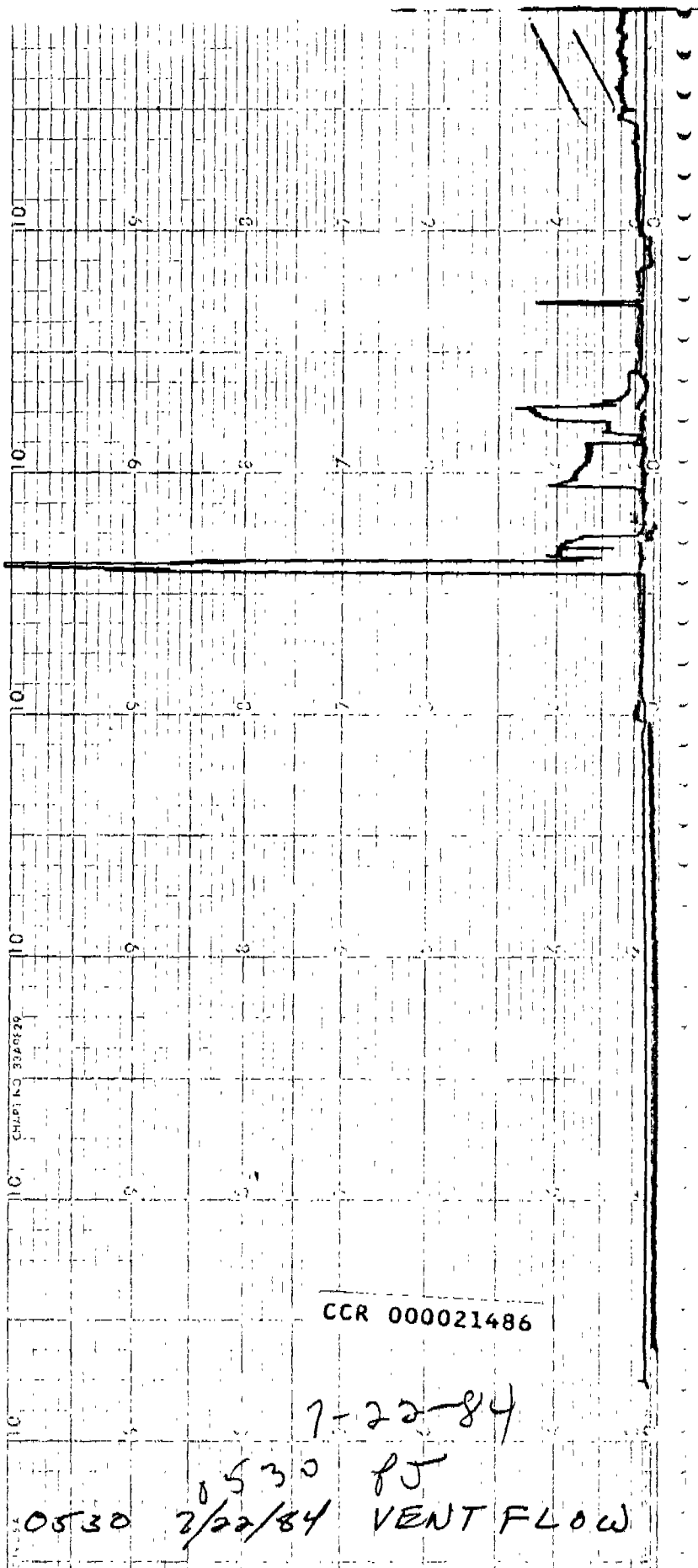




CCR 000021485

0430 6/20/84 FLOW

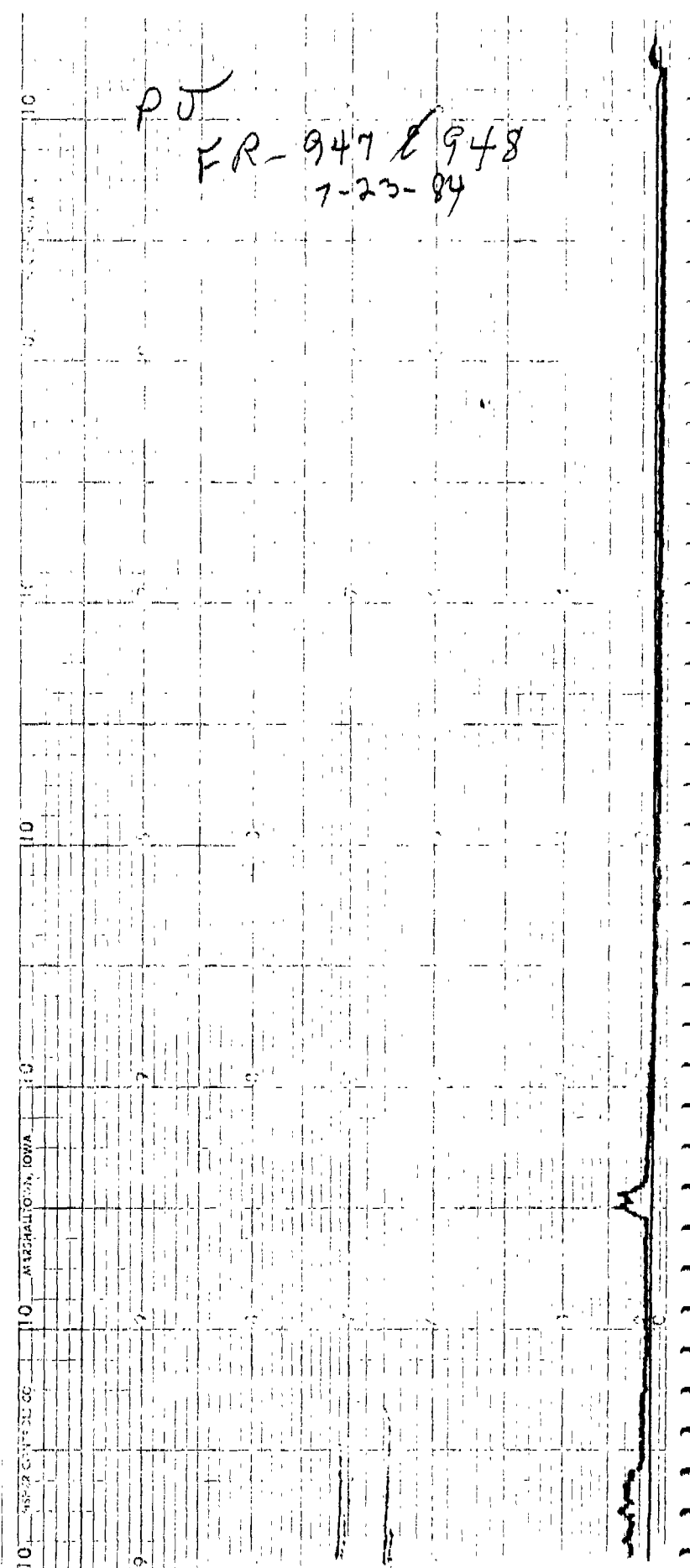




CCR 00021486

7-22-84

0530 2/22/84 VENT FLOW



PJ

FR-947 / 948
7-23-84

10

9

8

7

6

5

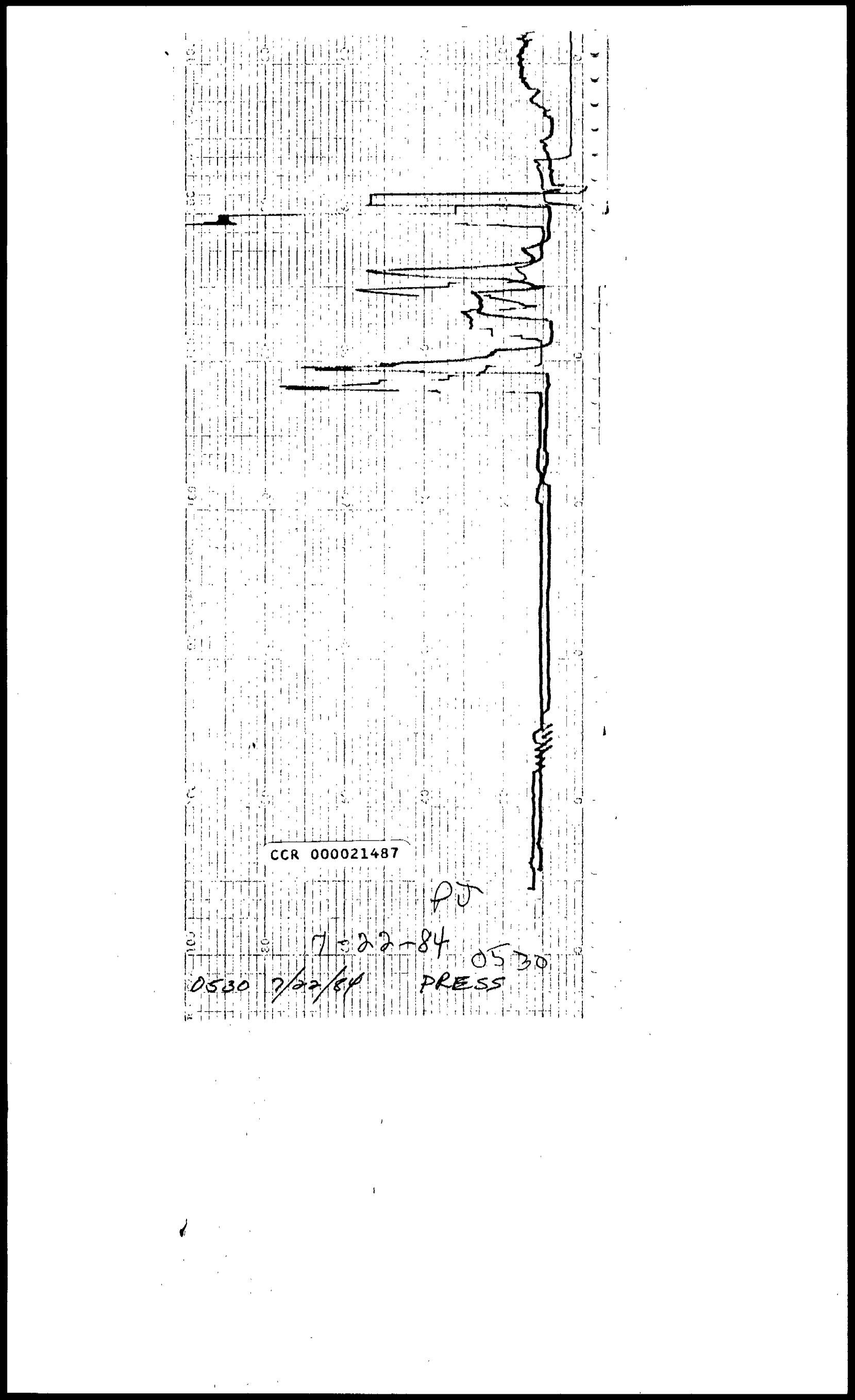
4

MARSHALLTOWN, IOWA

10

9

8



CCR 000021487

PJ

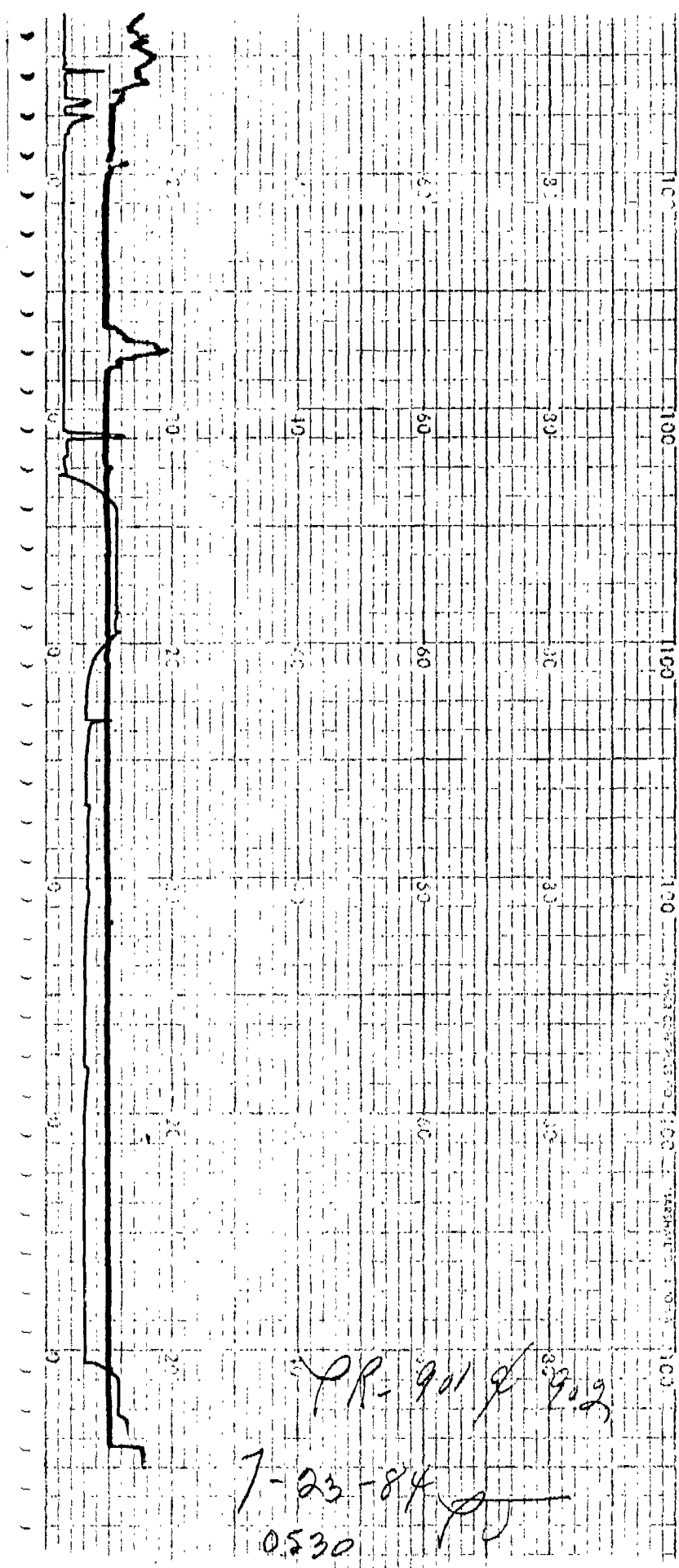
7-22-84

0530

0530

2/22/84

PRESS



PR-901/902

7-23-84

0530

VCM VENT REPORT (Cont'd)

(Circle answer)

What was the condition of the off-line unit:

- 1) Down for repairs or maintenance?
- 2) On hot standby?
- 3) Other? Explain _____

Yes	No
<u>Yes</u>	No

What action was taken to minimize the effects of the incident:

- 1) Off-line unit was started up/placed on-line?
- 2) Vents were cut back?
- 3) Supplier of raw material (ethylene or chlorine) was notified of off-spec product?
- 4) Vents were split?
- 5) Other? Explain _____

Yes	No
<u>Yes</u>	No
Yes	No
Yes	No

Were any manual vents occurring in the main plant?

If yes, what was being vented? VCM Column

<u>Yes</u>	No
------------	----

Were any of the following units down:

- Oxychlorination?
Direct Chlorination?
LE Column?
Tank Farm Blower?

<u>Yes</u>	No
<u>Yes</u>	No
<u>Yes</u>	No
<u>Yes</u>	<u>No</u>

Were tank cars being loaded?

Yes	<u>No</u>
-----	-----------

Was a ship being loaded?

Yes	<u>No</u>
-----	-----------

Was recycle EDC routed to:

- Wash System?
HE Column?
R-101?
T-101?

Yes	<u>No</u>
Yes	<u>No</u>
Yes	<u>No</u>
Yes	<u>No</u>

Notes:

CCR 000021488)

1. This report must be completed anytime that the concentration of VCM in the incinerator stock gas exceeds 10 ppm, a vent by-passes the incinerator, or an incinerator automatically shuts down.
2. If a vent by-passes the incinerator for greater than one hour or both incinerators are down for more than one hour the appropriate personnel (process superintendent, operations duty person, or chief process engineer) must be notified immediately.

44
Date: 7-22-84

S/S Signature: Ronald E. [Signature]

VCM VENT REPORT (See Note 1)

Date of incident 7-22-84

Time of incident 1350

On-line unit ✓ I-901 I-901B

Off-line unit I-901 ✓ I-901B

Main Plant VCM Production Rate Unit Down - 0 - MMlbs./day

Wet Vent Flow Rate 8000 SCFH } Correct

Dry Vent Flow Rate 5500 SCFH }

Firebox Temperature 1350 °C

Did the Wet Vent by-pass? (Circle answer) Yes No

If yes, how long did it by-pass? 10 min. (See Note 2)

Did the Dry Vent by-pass? Yes No

If yes, how long did it by-pass? 10 min. (See Note 2)

Did the Tank Farm Vent by-pass? Yes No

If yes, how long did it by-pass? 10 min (See Note 2)

Did the on-line unit shutdown? Yes No

If yes:

1) How long did it take to bring a unit on-line? 10 (See Note 2)

2) What condition initiated the shutdown:

- | | | |
|-----------------------------------|------------|----|
| a) High firebox temperature? | Yes | No |
| b) Low steam drum level? | Yes | No |
| c) High HCl absorber temperature? | Yes | No |
| d) Low combustion air flow? | Yes | No |
| e) Loss of flame? | <u>Yes</u> | No |
| f) Power failure? | Yes | No |
| g) Manual (Operator) shutdown? | Yes | No |

What caused the incident checked above:

- | | | |
|--|------------|----|
| 1) Excessive vent flow? | <u>Yes</u> | No |
| 2) Rich vent flow, i.e. high ethane in ethylene, etc.? | Yes | No |
| 3) Steam outage? | Yes | No |
| 4) Electricity outage? | Yes | No |
| 5) Other? Explain <u>Venting H₂ during</u> | | |

Vinyl col. inventorying

VCM VENT REPORT (Cont'd)

(Circle answer)

What was the condition of the off-line unit:

- 1) Down for repairs or maintenance?
- 2) On hot standby?
- 3) Other? Explain

Yes
Yes

☒ No
☒ No

ON LINE

What action was taken to minimize the effects of the incident:

- 1) Off-line unit was started up/placed on-line?
- 2) Vents were cut back?
- 3) Supplier of raw material (ethylene or chlorine) was notified of off-spec product?
- 4) Vents were split?
- 5) Other? Explain

Yes
☒ Yes

☒ No
No

Yes
Yes

☒ No
☒ No

Were any manual vents occurring in the main plant?
If yes, what was being vented?

☒ Yes

No

C-203 Venting Down

Were any of the following units down:

- Oxychlorination?
- Direct Chlorination?
- LE Column?
- Tank Farm Blower?

☒ Yes
☒ Yes
☒ Yes
-Yes

No
No
No
☒ No

Were tank cars being loaded?

Yes

☒ No

Was a ship being loaded?

Yes

☒ No

Was recycle EDC routed to:

- Wash System?
- HE Column?
- R-101?
- T-101?

Yes
Yes
Yes
Yes

☒ No
☒ No
☒ No
☒ No

Notes:

CCR 000021490

1. This report must be completed anytime that the concentration of VCM in the incinerator stock gas exceeds 10 ppm, a vent by-passes the incinerator, or an incinerator automatically shuts down.
2. If a vent by-passes the incinerator for greater than one hour or both incinerators are down for more than one hour the appropriate personnel (process superintendent, operations duty person, or chief process engineer) must be notified immediately.

Date: 7-20-84

S/S Signature: Kroch

VCM VENT REPORT (See Note 1)

Date of incident 7-20-84

Time of incident 0200 AM

On-line unit ✓ I-901 ✓ I-901B

Off-line unit _____ I-901 _____ I-901B

Main Plant VCM Production Rate 0 MMlbs./day

Wet Vent Flow Rate 2 units SCFH

Dry Vent Flow Rate 0 SCFH

Firebox Temperature 1100 °C

Did the Wet Vent by-pass? (Yes) No
If yes, how long did it by-pass? 5 (See Note 2)
Did the Dry Vent by-pass? (Yes) No
If yes, how long did it by-pass? 5 (See Note 2)
Did the Tank Farm Vent by-pass? (Yes) No
If yes, how long did it by-pass? 5 (See Note 2)

Did the on-line unit shutdown? Yes No
If yes:
1) How long did it take to bring a unit on-line? 5 (See Note 2)
2) What condition initiated the shutdown:
a) High firebox temperature? Yes No
b) Low steam drum level? Yes No
c) High HCl absorber temperature? Yes No
d) Low combustion air flow? Yes No
e) Loss of flame? (Yes) No
f) Power failure? Yes No
g) Manual (Operator) shutdown? Yes No

What caused the incident checked above:

- 1) Excessive vent flow? (Yes) No
2) Rich vent flow, i.e. high ethane in ethylene, etc.? Yes No
3) Steam outage? Yes No
4) Electricity outage? Yes No
5) Other? Explain Venting C-203 to Header

Plant S/D

VCM VENT REPORT (Cont'd)

(Circle answer)

What was the condition of the off-line unit:

- 1) Down for repairs or maintenance?
- 2) On hot standby?
- 3) Other? Explain _____

☒ Yes ☐ No
Yes ☐ No

What action was taken to minimize the effects of the incident:

- 1) Off-line unit was started up/placed on-line?
- 2) Vents were cut back?
- 3) Supplier of raw material (ethylene or chlorine) was notified of off-spec product?
- 4) Vents were split?
- 5) Other? Explain _____

☒ Yes ☐ No
☒ Yes ☐ No
Yes ☐ No
Yes ☐ No

Were any manual vents occurring in the main plant?

If yes, what was being vented? _____

☒ Yes ☐ No
C-202 - Noled

it in.

Were any of the following units down:

- Oxychlorination?
- Direct Chlorination?
- LE Column?
- Tank Farm Blower?

☒ Yes ☐ No
☒ Yes ☐ No
Yes ☐ No
Yes ☐ No

Were tank cars being loaded?

Yes ☐ No
Yes ☐ No

Was a ship being loaded?

Yes ☐ No

Was recycle EDC routed to:

Wash System?

☒ Yes ☐ No

HE Column?

Yes ☐ No

R-101?

Yes ☐ No

T-101?

Yes ☐ No

CCR 000021492)

Notes:

1. This report must be completed anytime that the concentration of VCM in the incinerator stock gas exceeds 10 ppm, a vent by-passes the incinerator, or an incinerator automatically shuts down.
2. If a vent by-passes the incinerator for greater than one hour or both incinerators are down for more than one hour the appropriate personnel (process superintendent, operations duty person, or chief process engineer) must be notified immediately.

Date: 7-19-84

S/S Signature: Ken Lee

VCM VENT REPORT (See Note 1)

Date of incident 7-19-84 Plant was S/D

Time of incident 4:25 PM cleaning for maint.

On-line unit _____ I-901 ✓ _____ I-901B

Off-line unit ✓ _____ I-901 _____ I-901B

Main Plant VCM Production Rate 0 MMlbs./day

Wet Vent Flow Rate 5600 SCFH

Dry Vent Flow Rate 0 SCFH

Firebox Temperature 1050 °C

Did the Wet Vent by-pass? (Circle answer)
If yes, how long did it by-pass? 5 MIN. (See Note 2) Yes No

Did the Dry Vent by-pass? DOWN AGAIN (See Note 2) Yes No Back on in 10 min.
If yes, how long did it by-pass?

Did the Tank Farm Vent by-pass? 5 min (See Note 2) Yes No
If yes, how long did it by-pass?

Did the on-line unit shutdown? Yes No
If yes: 1) How long did it take to bring a unit on-line? 5 MIN (See Note 2)

- 2) What condition initiated the shutdown:
- | | | |
|-----------------------------------|------------|-----------|
| a) High firebox temperature? | Yes | <u>No</u> |
| b) Low steam drum level? | Yes | <u>No</u> |
| c) High HCl absorber temperature? | Yes | <u>No</u> |
| d) Low combustion air flow? | Yes | <u>No</u> |
| e) Loss of flame? | <u>Yes</u> | No |
| f) Power failure? | Yes | <u>No</u> |
| g) Manual (Operator) shutdown? | Yes | <u>No</u> |

What caused the incident checked above:

- | | | |
|--|-----|-----------|
| 1) Excessive vent flow? | Yes | <u>No</u> |
| 2) Rich vent flow, i.e. high ethane in ethylene, etc.? | Yes | <u>No</u> |
| 3) Steam outage? | Yes | <u>No</u> |
| 4) Electricity outage? | Yes | <u>No</u> |
| 5) Other? Explain <u>Flame failure</u> | | |

VCM VENT REPORT (Cont'd)

(Circle answer)

What was the condition of the off-line unit:

- 1) Down for repairs or maintenance?
- 2) On hot standby?
- 3) Other? Explain

Yes
Yes

☒ No
☒ No

ON LINE WITH #1 BURNING
VENTS

What action was taken to minimize the effects of the incident:

- 1) Off-line unit was started up/placed on-line?
- 2) Vents were cut back?
- 3) Supplier of raw material (ethylene or chlorine) was notified of off-spec product?
- 4) Vents were split?
- 5) Other? Explain

☒ Yes
☒ Yes

No
No

☒ Yes
☒ Yes

☒ No
No

C-201 & C-202 VENTS WERE STOPPED
UNTIL VENTS WERE ON LINE AGAIN

Were any manual vents occurring in the main plant?

If yes, what was being vented? C-202 & C-201

☒ Yes

No

Were any of the following units down:

- Oxychlorination?
- Direct Chlorination?
- LE Column?
- Tank Farm Blower?

☒ Yes
☒ Yes
Yes
☒ Yes

No
No
☒ No
☒ No

Were tank cars being loaded?

Yes

☒ No

Was a ship being loaded?

Yes

☒ No

Was recycle EDC routed to:

- Wash System?
- HE Column?
- R-101?
- T-101?

☒ Yes
Yes
Yes
Yes

No
☒ No
☒ No
☒ No

CCR 000021494)

Notes:

1. This report must be completed anytime that the concentration of VCM in the incinerator stock gas exceeds 10 ppm, a vent by-passes the incinerator, or an incinerator automatically shuts down.
2. If a vent by-passes the incinerator for greater than one hour or both incinerators are down for more than one hour the appropriate personnel (process superintendent, operations duty person, or chief process engineer) must be notified immediately.

Date: 7-19-84

S/S Signature: K. Car

VCM VENT REPORT (See Note 1)

Date of incident 7-19-84 PLANT WAS SHUTDOWN
Time of incident 3:30 PM & CLEARING FOR MAINT.
On-line unit ✓ I-901 ✓ I-901B
Off-line unit I-901 I-901B
Main Plant VCM Production Rate 0 MMlbs./day
Wet Vent Flow Rate 1.0 units 5600 SCFH
Dry Vent Flow Rate 0 SCFH
Firebox Temperature 1200 - 1200 °C

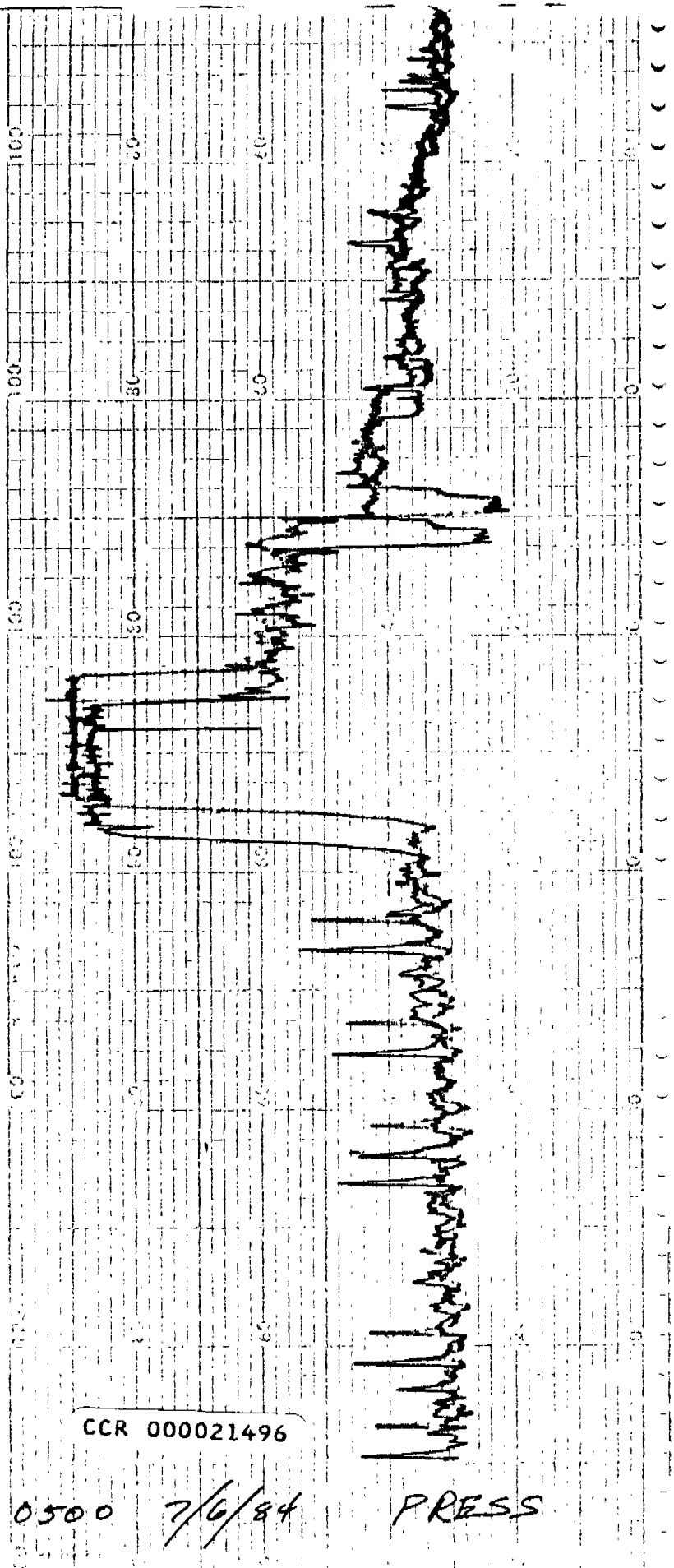
Did the Wet Vent by-pass? 50 (Circle answer) Yes No
If yes, how long did it by-pass? 51 MIN. (See Note 2)
Did the Dry Vent by-pass? 52 MIN (See Note 2) Yes No
If yes, how long did it by-pass? 51 MIN (See Note 2) Yes No
Did the Tank Farm Vent by-pass? 50 (See Note 2) Yes No
If yes, how long did it by-pass? 50 MIN (See Note 2)

Did the on-line unit shutdown? 50 MIN (See Note 2)
If yes:
1) How long did it take to bring a unit on-line? 50 MIN (See Note 2)
2) What condition initiated the shutdown:
a) High firebox temperature? Yes NO
b) Low steam drum level? Yes NO
c) High HCl absorber temperature? Yes NO
d) Low combustion air flow? Yes Yes NO
e) Loss of flame? Yes Yes NO
f) Power failure? Yes NO
g) Manual (Operator) shutdown? Yes NO

What caused the incident checked above:

- 1) Excessive vent flow? Yes NO
2) Rich vent flow, i.e. high ethane in ethylene, etc.? Yes NO
3) Steam outage? Yes NO
4) Electricity outage? Yes NO
5) Other? Explain Venting C-202 & C-201 AT TIME

of S/S; headers were only @ 32"
AND #2 VENT DOWN DUE TO WATER
IN THE SOLENOID VALVE ON THE FEED
#1 WENT DOWN BECAUSE OF HIGH VENT

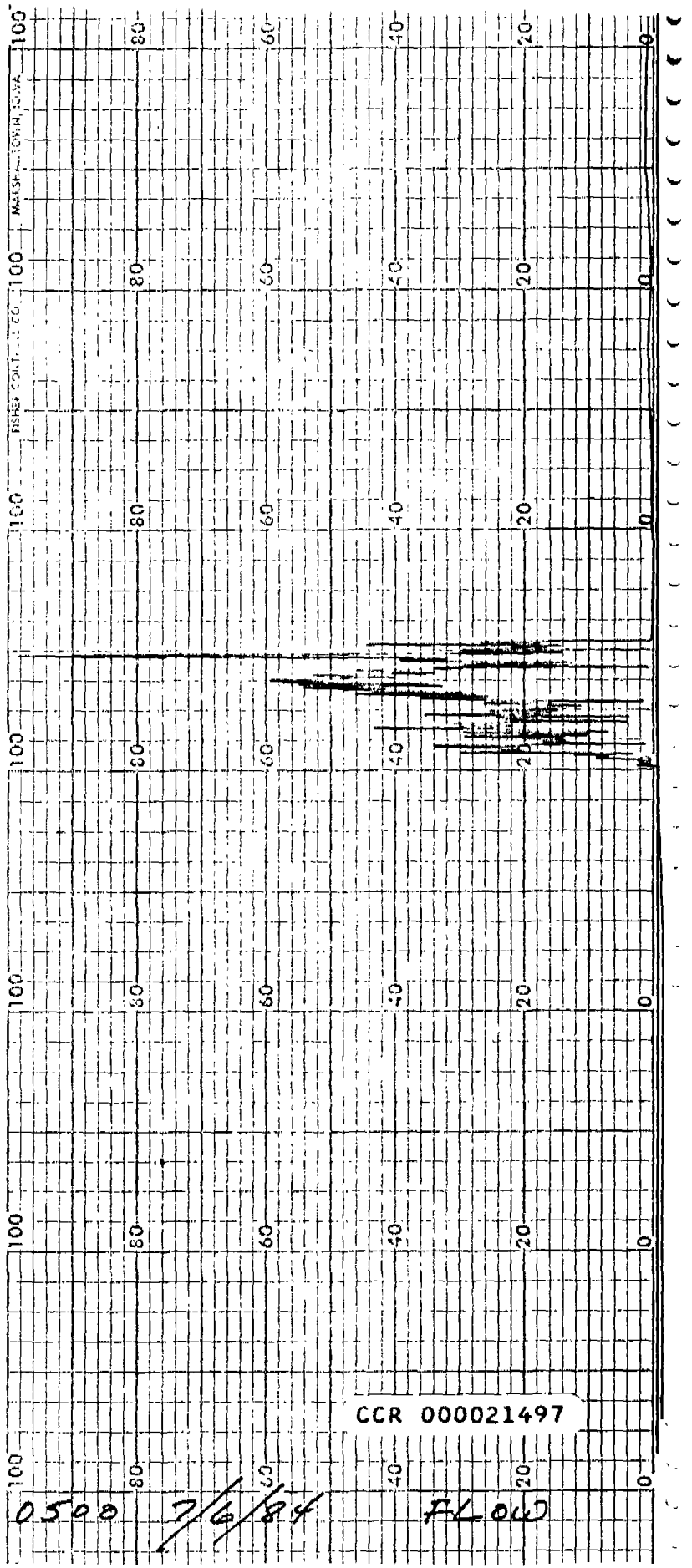


CCR 000021496

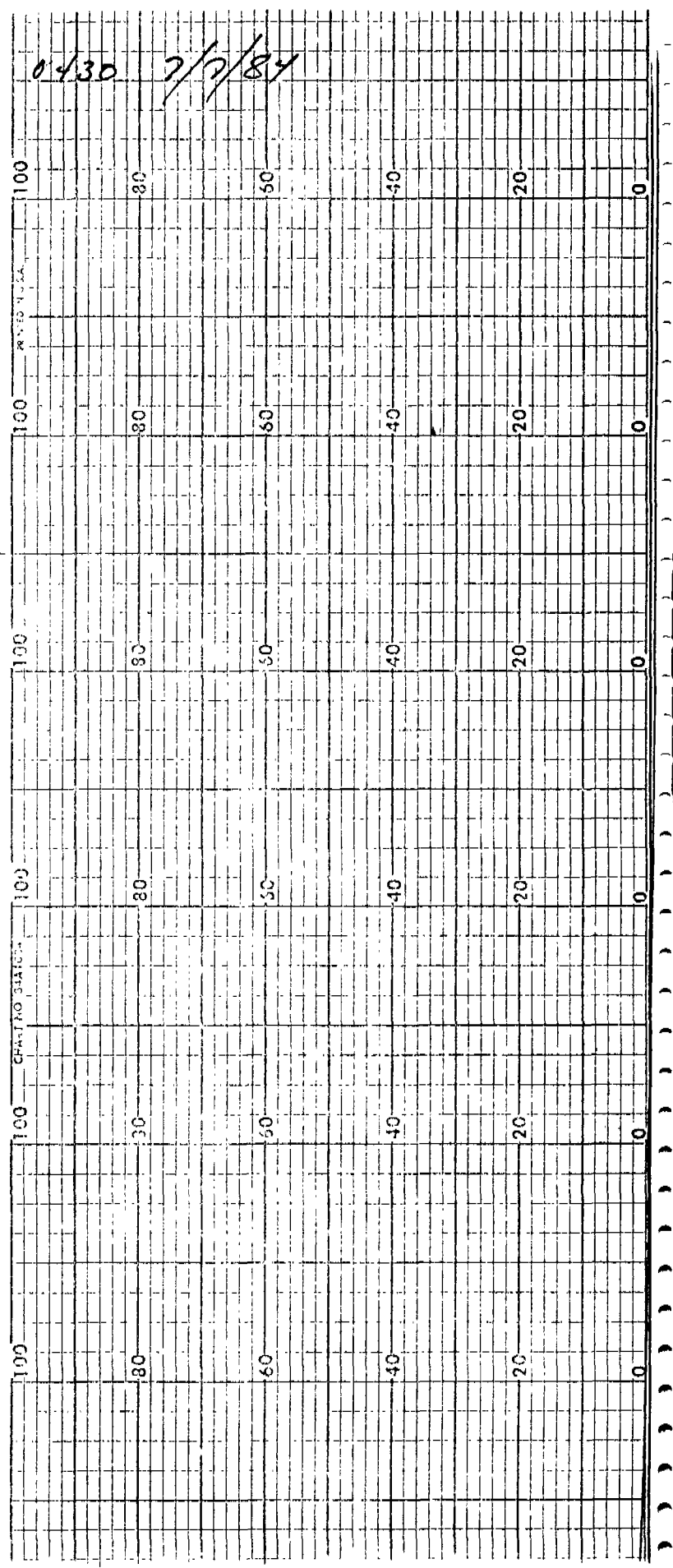
0500

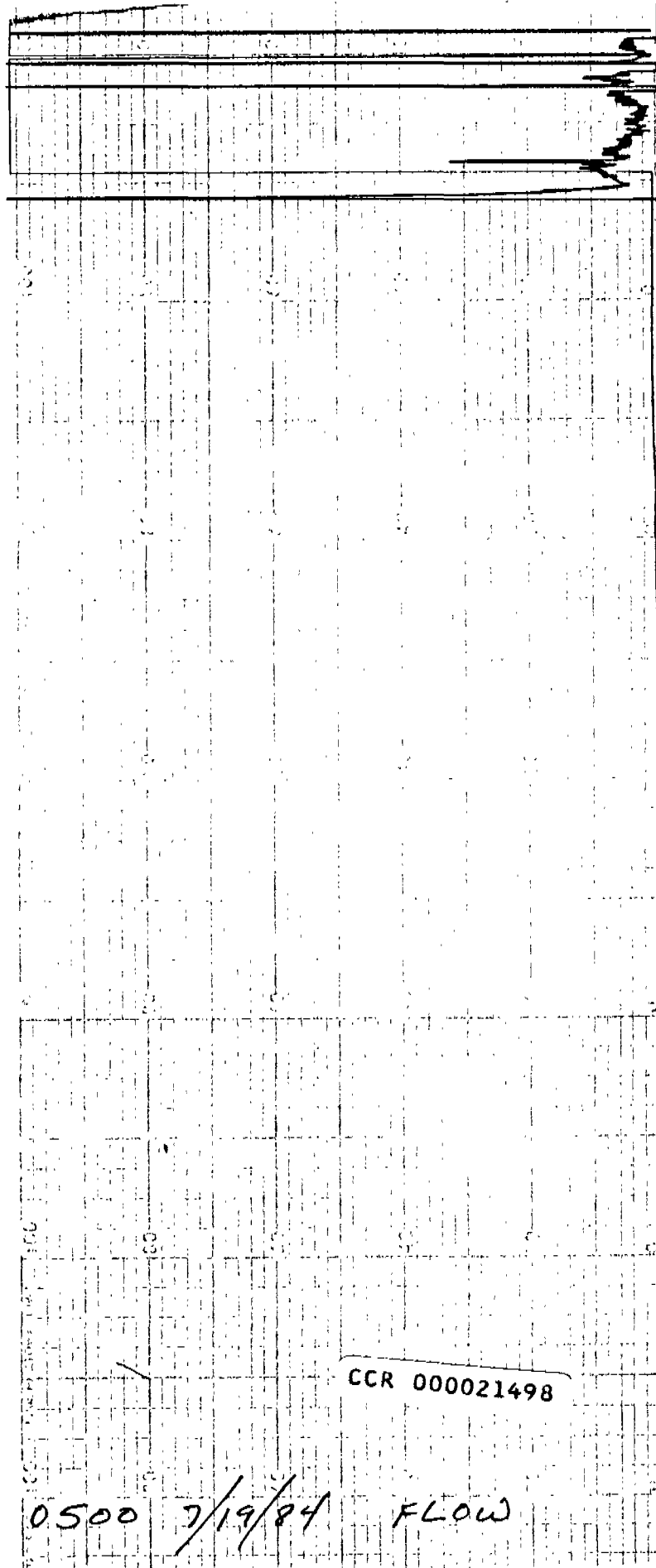
7/6/84

PRESS



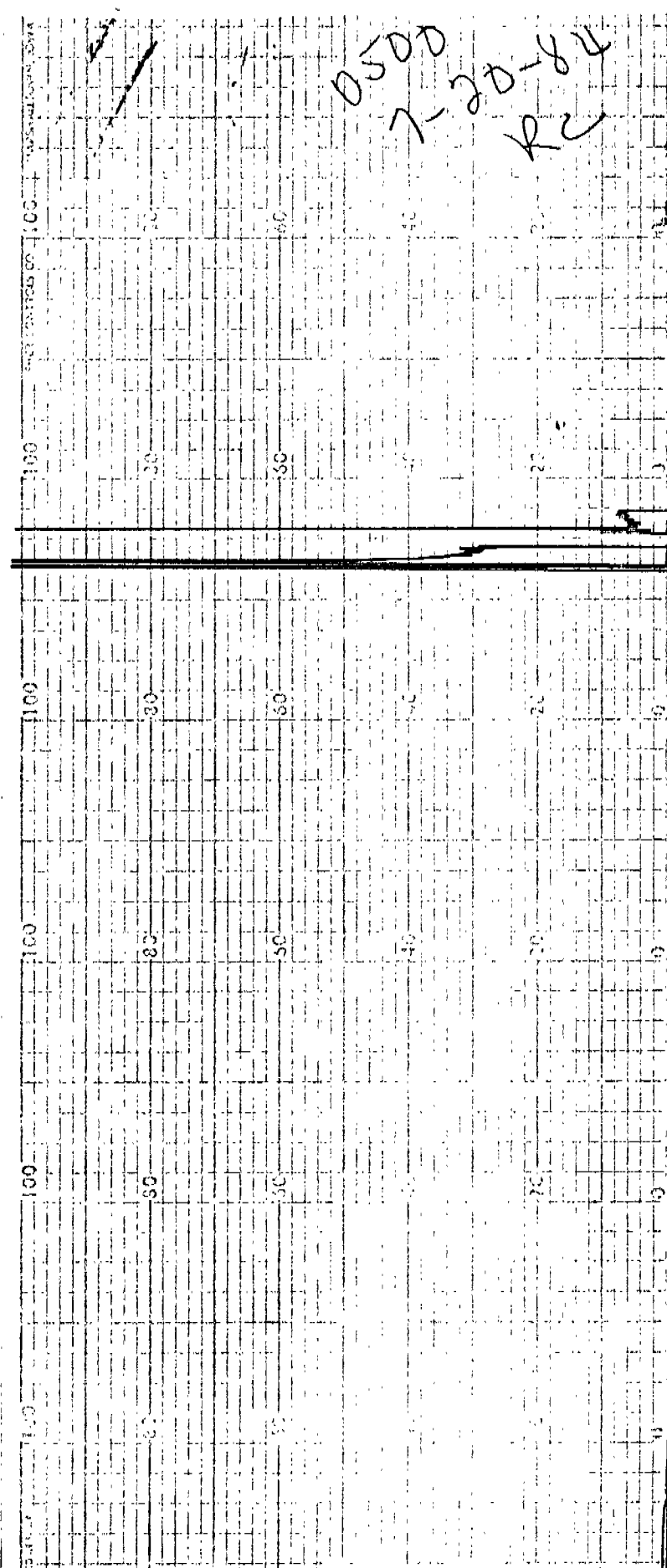
0430 7/7/84



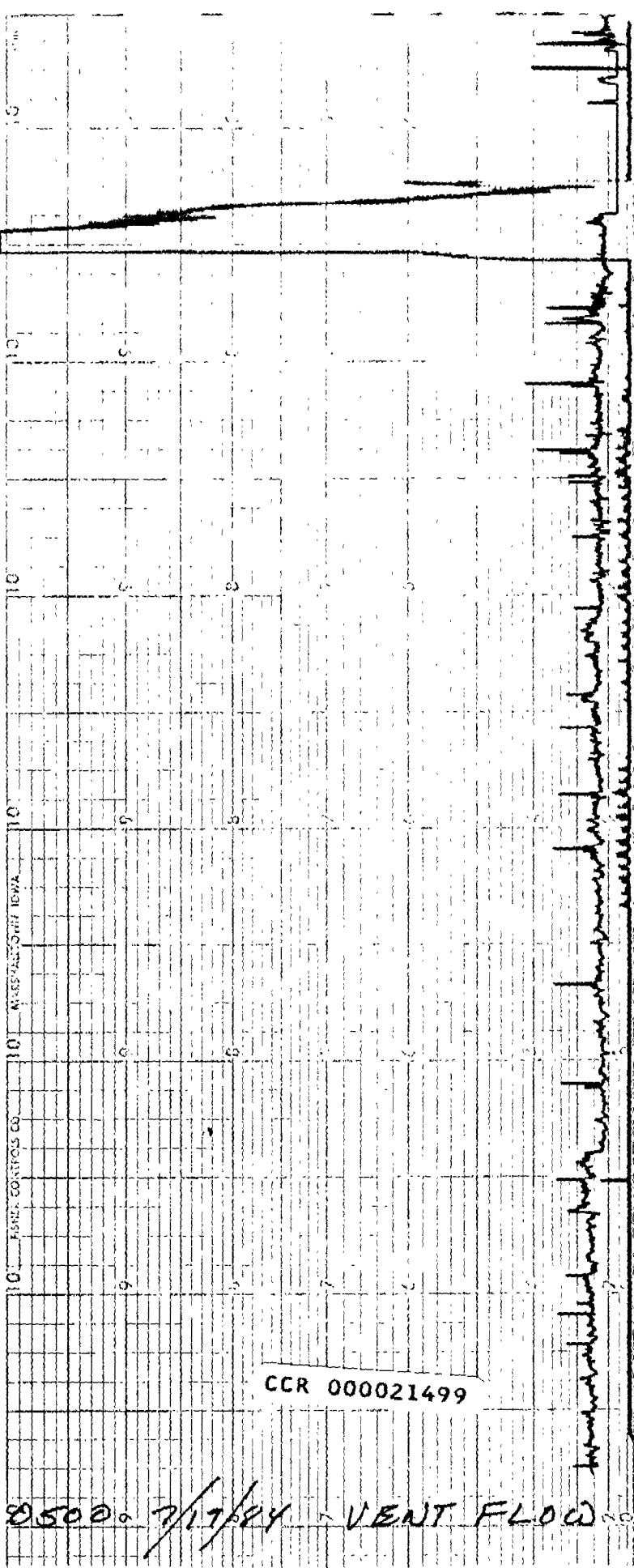


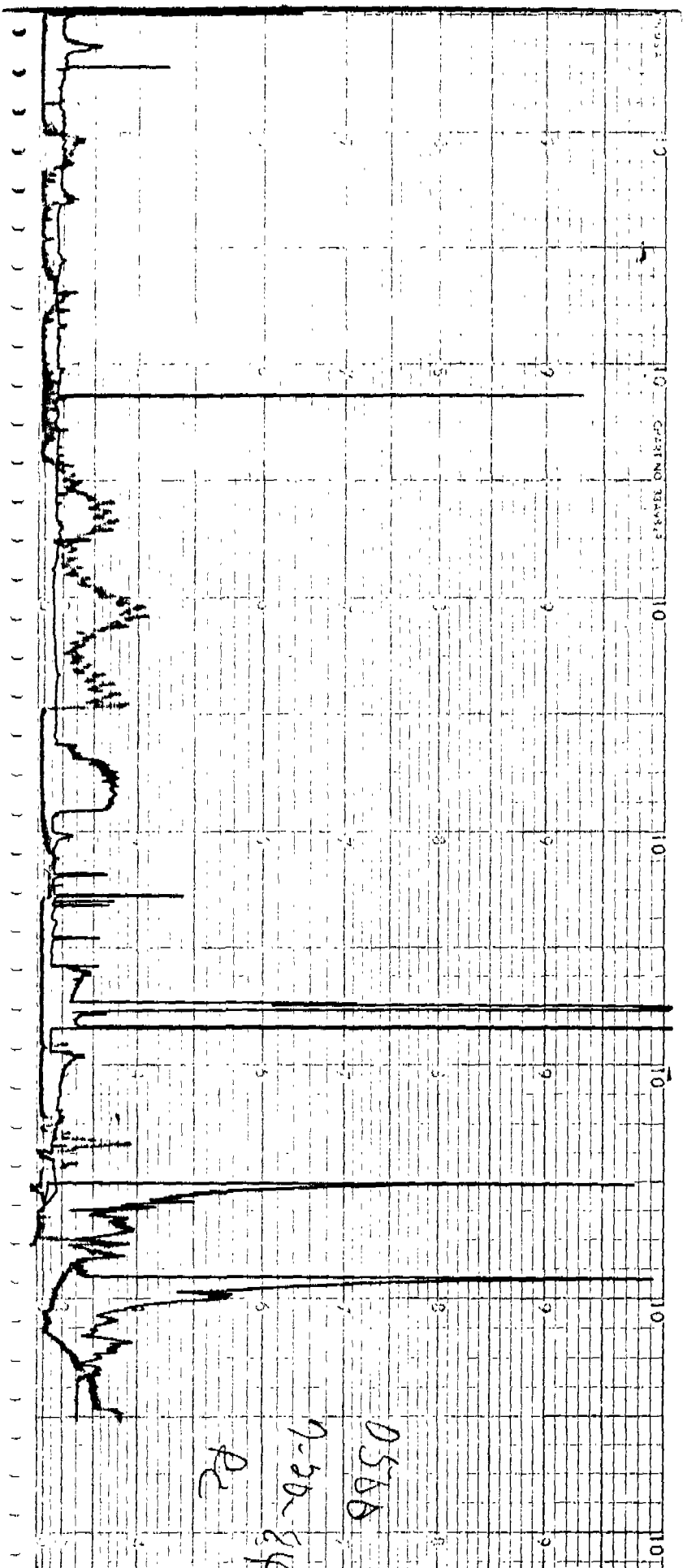
CCR 000021498

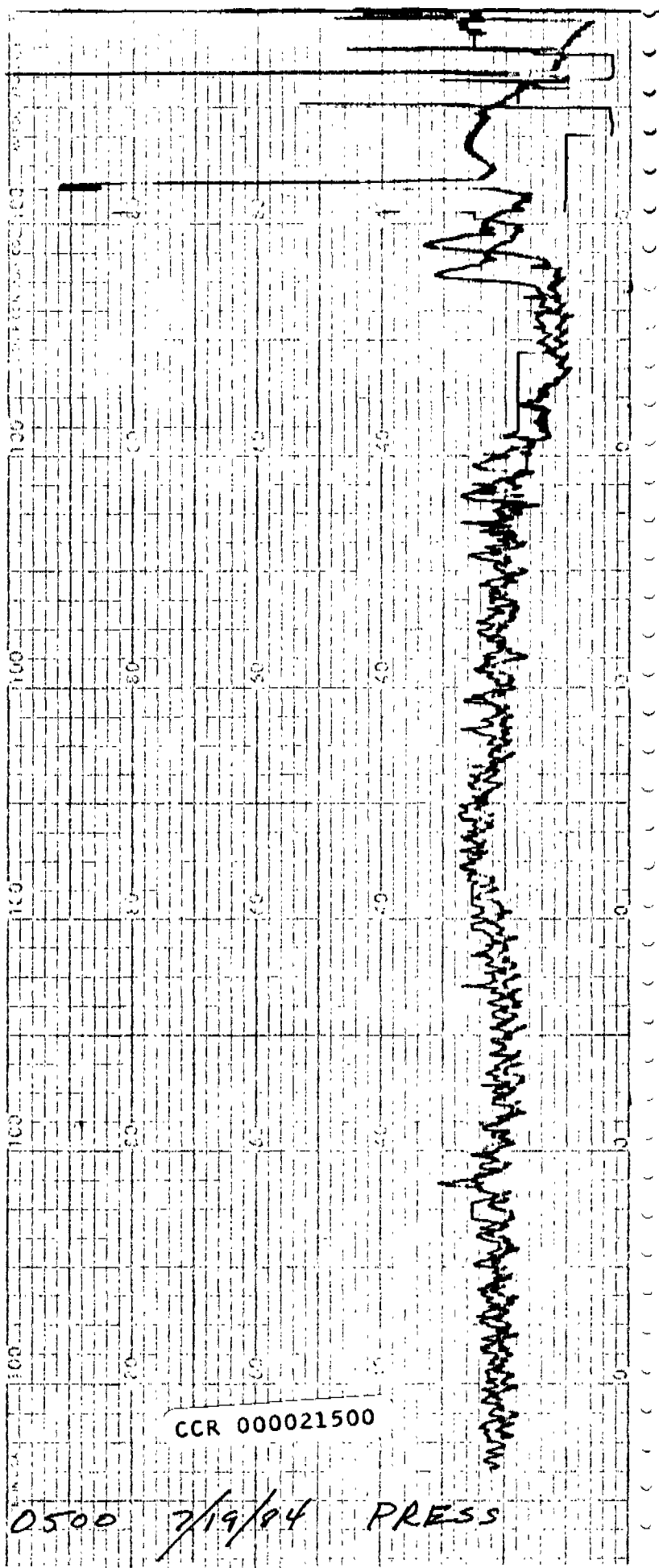
0500 7/19/84 FLOW



0500
7-20-84
RC

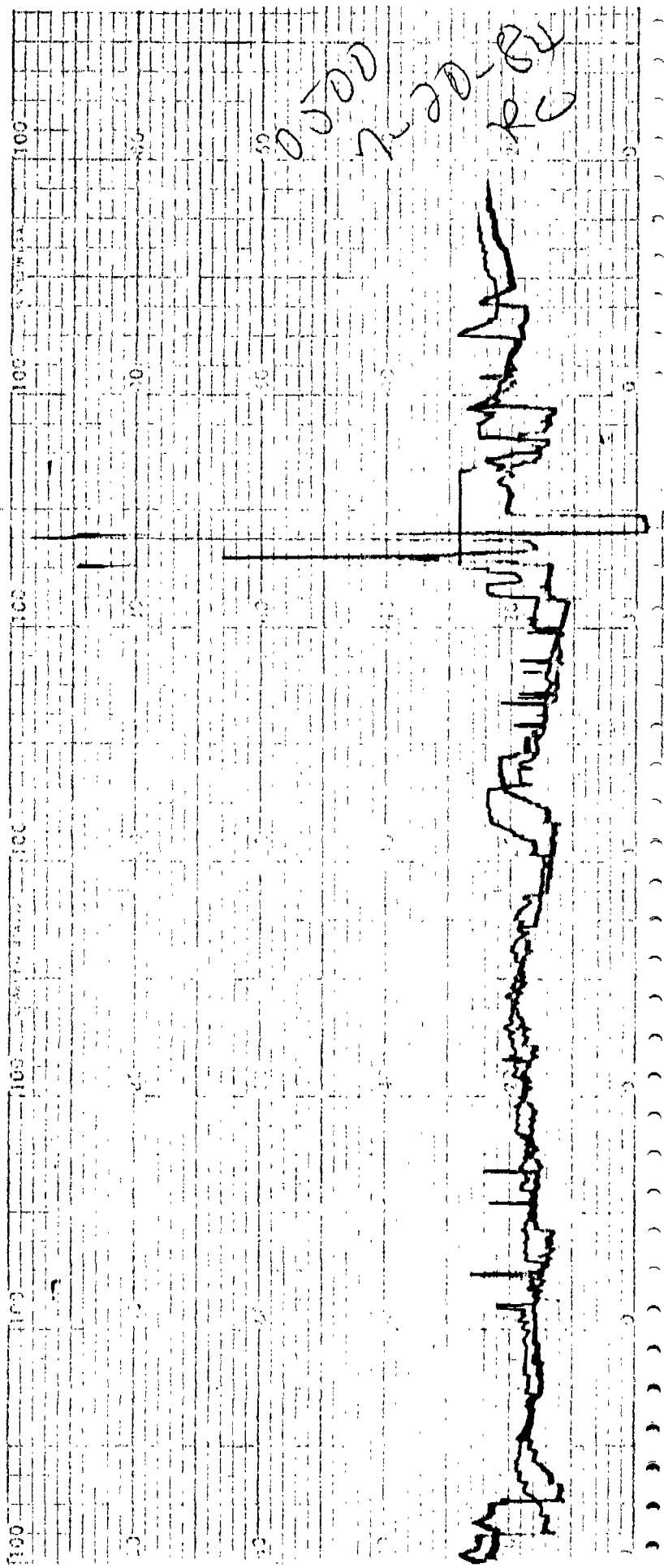






CCR 000021500

0500 7/19/84 PRESS



11 7-6 ACR
DATE: 7-8-80

S/S SIGNATURE: Phorb

REPORT OF EPA VCM VENT NON-COMPLIANCE (See Note 1)

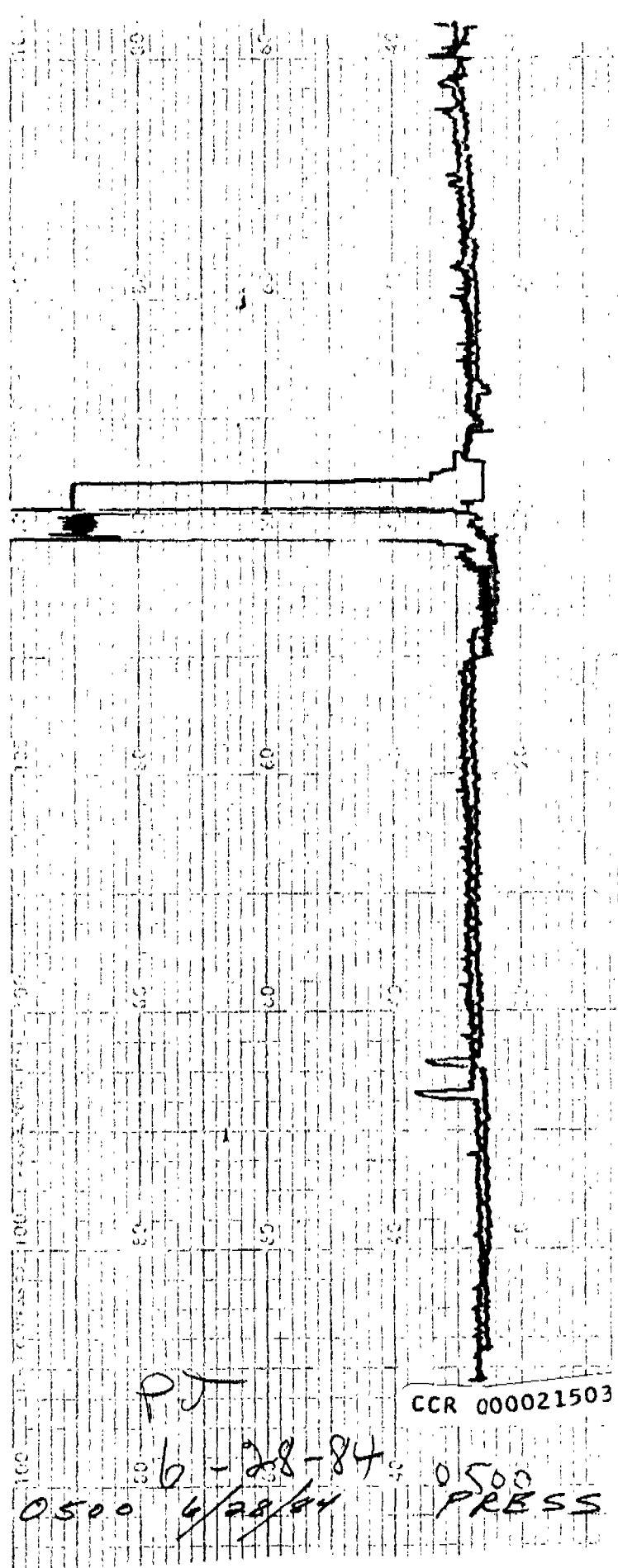
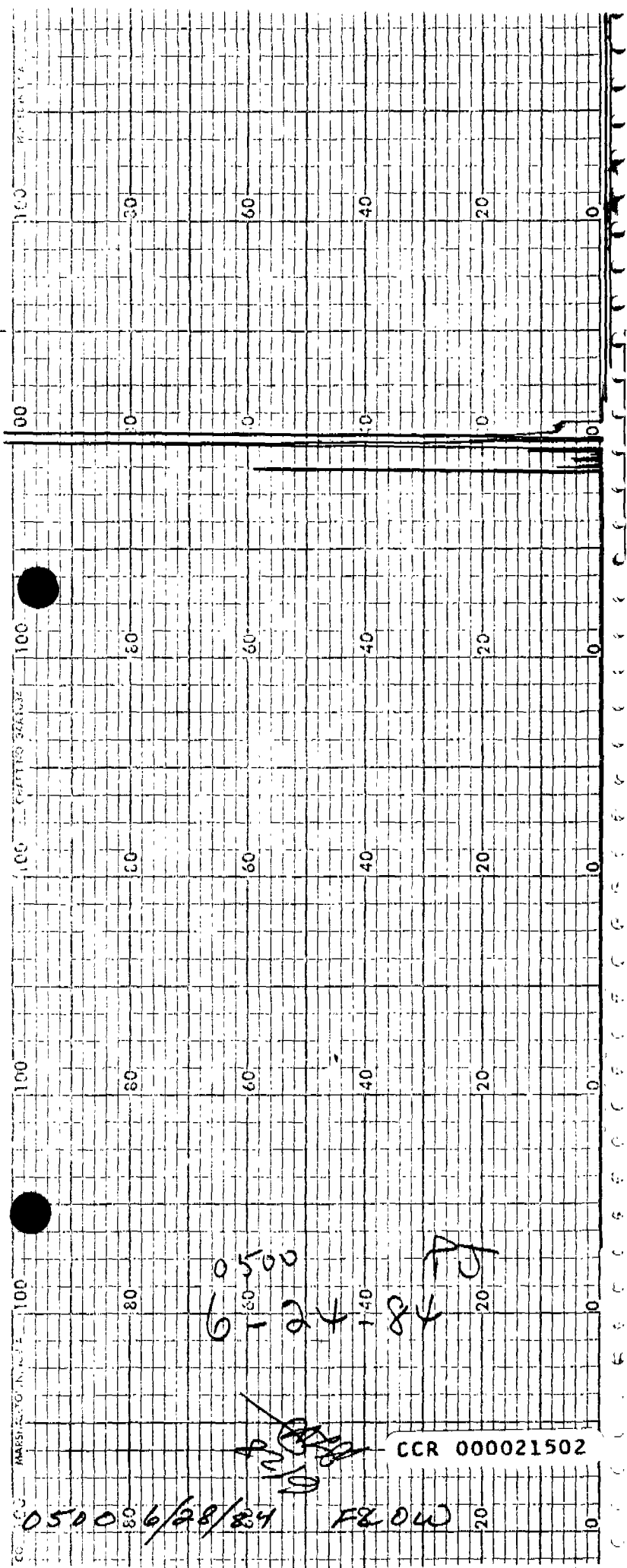
- 1) Area of Violation: Incinerator
- 2) Time of Violation: 10⁰⁰ AM
- 3) Duration of Non-Compliance: 2 hrs 58 mins.
- 4) Reason for Violation (See Note 2): Increased Vent from Ship + S/P off #2 Incinerator
- 5) Corrective Action Taken: Blocked off most of Vent from Ship stopped by-pass, started #2 Incinerator + split Vents

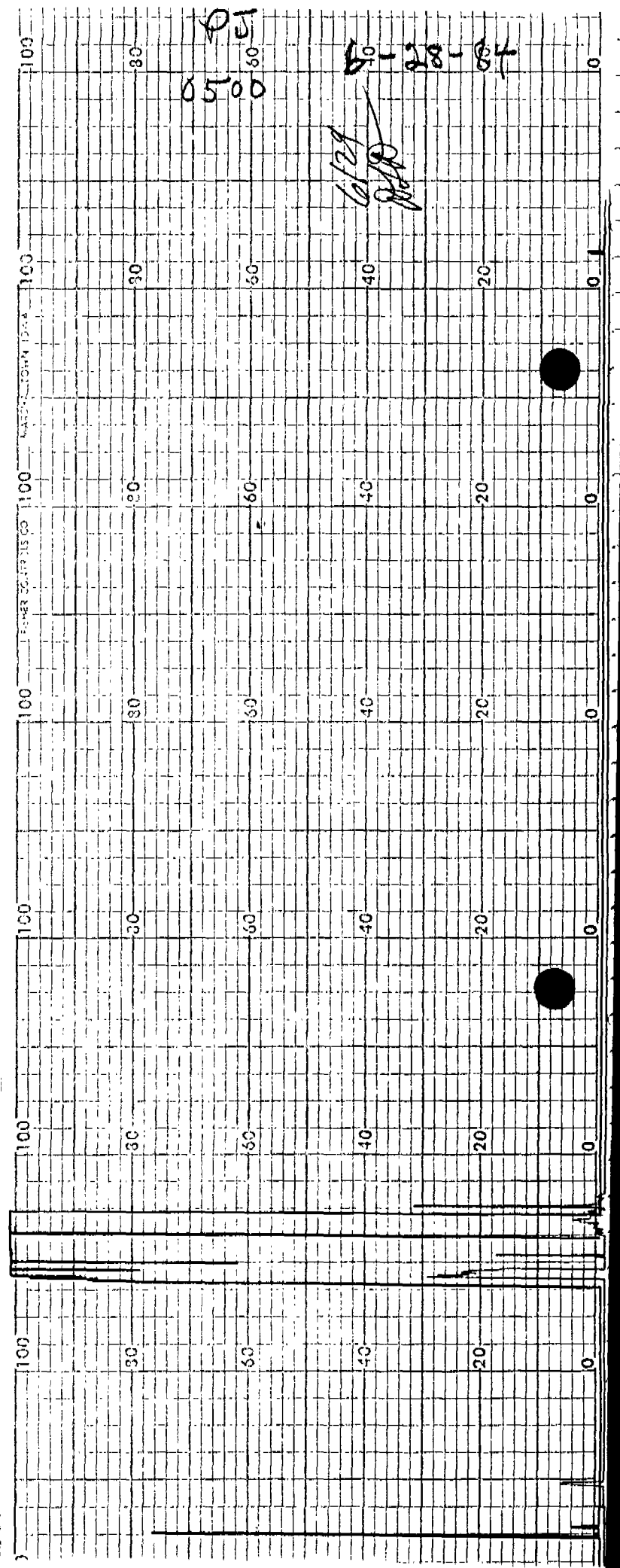
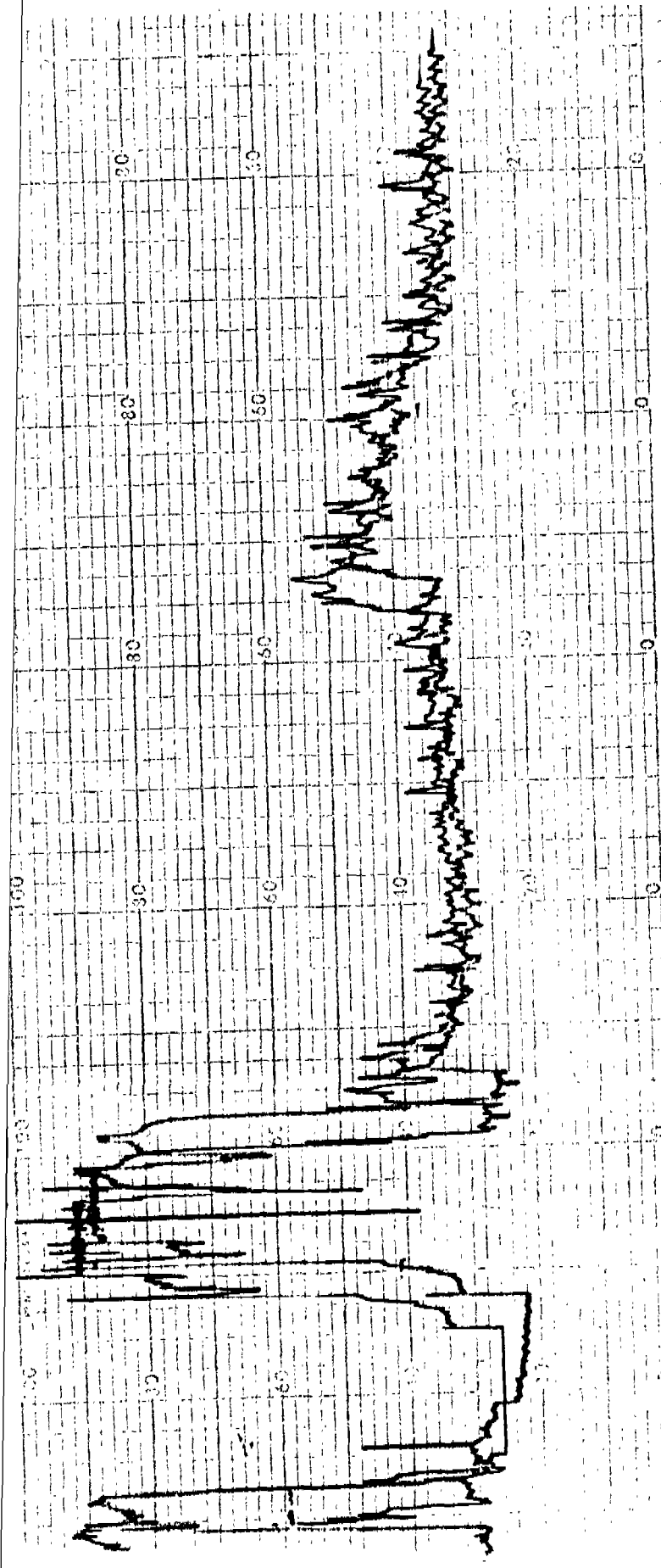
Notes:

- 1) This report must be completed anytime that an hourly average emission from the incinerator or carbon beds exceeds 10 ppm VCM or the emission from the oxy unit exceeds 0.2 grams VCM per kilogram of EDC produced or a vent by-passes the incinerator.
- 2) Explain any circumstances which relate to the incident of non-compliance (i.e.; the incinerator was down so many hours because....)

per (Vent bypass
process 58 minutes
up (high vent flow from ship

CCR 000021501





DATE: 6-28-84

S/S SIGNATURE: Ken Clark

REPORT OF EPA VCM VENT NON-COMPLIANCE (See Note 1)

- 1) Area of Violation: #2 INCIN.
- 2) Time of Violation: NOON
- 3) Duration of Non-Compliance: 15 mins.
- 4) Reason for Violation (See Note 2): BAD COMMUNICATION BETWEEN
Incinerator & BIK 2 board^{op} Incinerator. Thought we
were sending HCl via containment system - H-207A+B
were being vented via new 2" valve.
- 5) Corrective Action Taken: Put incin. back on. Talked
to both operators.

Notes:

- 1) This report must be completed anytime that an hourly average emission from the incinerator or carbon beds exceeds 10 ppm VCM or the emission from the oxy unit exceeds 0.2 grams VCM per kilogram of EDC produced - or a vent by-passes the incinerator.
- 2) Explain any circumstances which relate to the incident of non-compliance (i.e.; the incinerator was down so many hours because....)

per (Auto. SD
15 minutes
High vent flow from H-207A

CCR 000021504

DATE: 6/28/84

S/S SIGNATURE: KROSKE

REPORT OF EPA VCM VENT NON-COMPLIANCE (See Note 1)

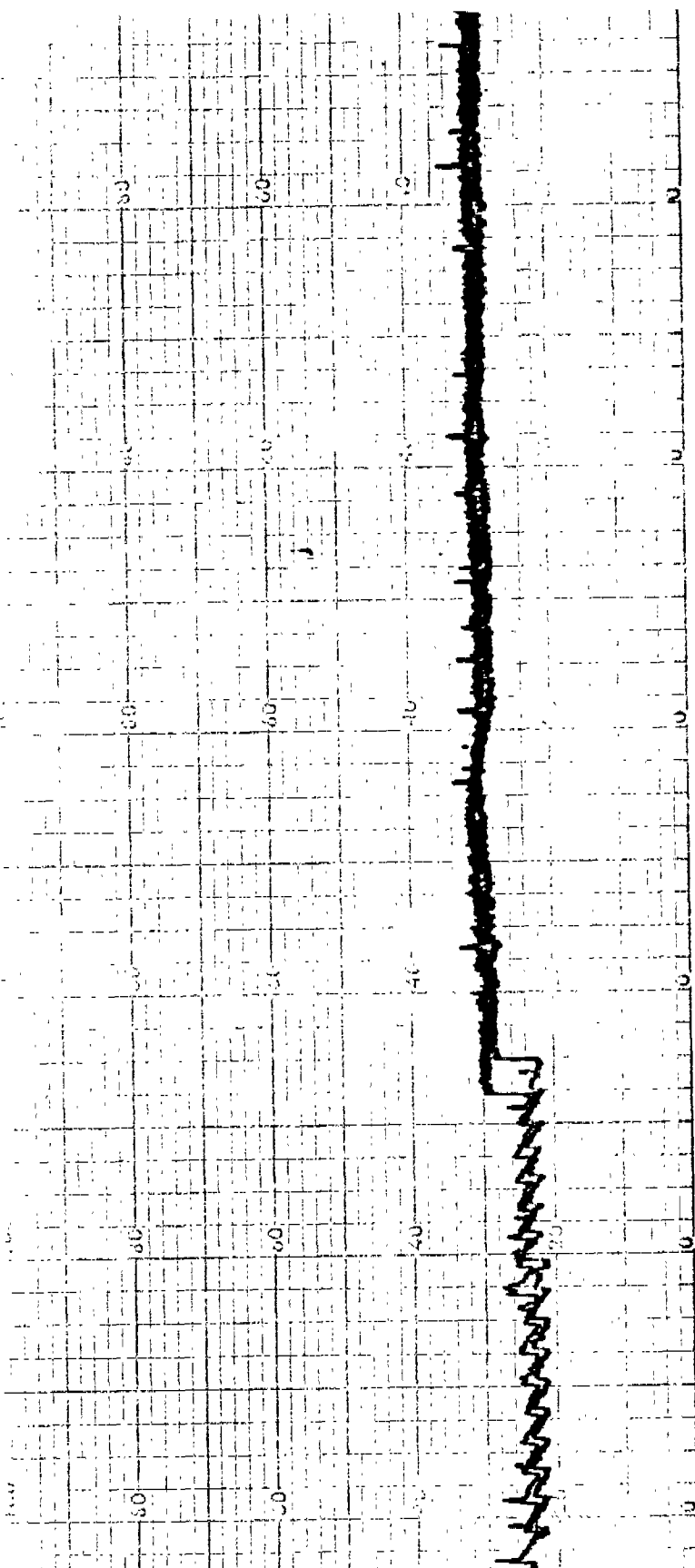
- 1) Area of Violation: # 2 INCIN.
- 2) Time of Violation: 1630 / 1845 HRS
- 3) Duration of Non-Compliance: 20 MIN / 40 MIN.
- 4) Reason for Violation (See Note 2):
Venting of H-207's overpressuring Vent Headers
- 5) Corrective Action Taken: Re-tested

Notes:

- 1) This report must be completed anytime that an hourly average emission from the incinerator or carbon beds exceeds 10 ppm VCM or the emission from the oxy unit exceeds 0.2 grams VCM per kilogram of EDC produced - or a vent by-passes the incinerator.
- 2) Explain any circumstances which relate to the incident of non-compliance (i.e.; the incinerator was down so many hours because....)

per progress up { Vent bypasses.
20 minutes & 40 minutes
High Vent flow from H-207's as req'd by HCl column upsets

CCR 000021505



PJ
 6-27-84 (CCR 00021506)
 0500 6/27/84
 0500 PRESS

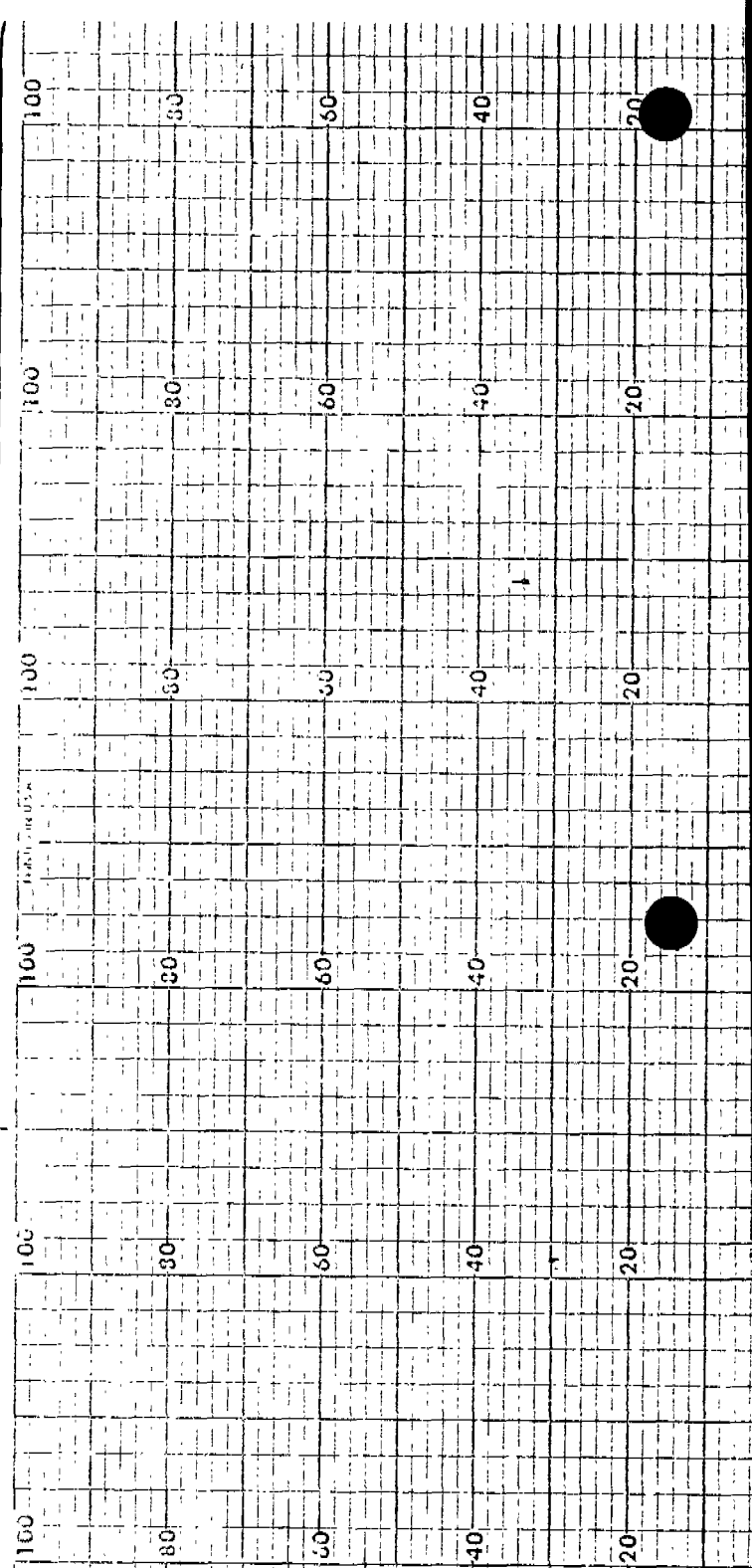


CHART NO 3481034
 0500 PJ 6-24-84
 0500 6/27/84
 27/84
 CCR 0000507
 F/24

0500 6-28-84

Handwritten signature

PJ 0500 6-28-84

Vertical handwritten text, possibly a date or time stamp, running down the right side of the page.

DATE:

6/27/84

S/S SIGNATURE:

Kroske

REPORT OF EPA VCM VENT NON-COMPLIANCE (See Note 1)1) Area of Violation: Both vent Headers2) Time of Violation: 1650 Hrs3) Duration of Non-Compliance: 10 minutes4) Reason for Violation (See Note 2):
FLAME OUT ON #2 UNIT

5) Corrective Action Taken:

Restarted #2 & Put Vents
IN IT ; now on XA GOLD
SCANNER ; STAYING LITE UP

Notes:

- 1) This report must be completed anytime that an hourly average emission from the incinerator or carbon beds exceeds 10 ppm VCM or the emission from the oxy unit exceeds 0.2 grams VCM per kilogram of EDC produced or a vent by-passes the incinerator.
- 2) Explain any circumstances which relate to the incident of non-compliance (i.e.; the incinerator was down so many hours because....)

per
10 minutes
Flame scanner failure

(Aulr SD

CCR 000021508)

06:38 7- 2- 1984
**** HIGH VCM IN INCINERATOR AREA....POINT # 2
VCM CONCENTRATION = 16.8 PPM

08:07:29 7- 2- 1984
**** HIGH VCM IN INCINERATOR AREA....POINT # 1
VCM CONCENTRATION = 16.6 PPM

08:37 7- 2- 1984
**** HIGH VCM IN INCINERATOR AREA....POINT # 2
VCM CONCENTRATION = 12.2 PPM

08:20:40

un 1,1
08:09:28

#1

43.7

43.7

16.6

12.0

116

$$\frac{116}{30} = 3.87$$

#2

43.7

43.7

16.8

12.2

116.4

$$\frac{116.4}{30} = 3.88$$

08:09:28 7- 2- 1984
**** HIGH VCM IN INCINERATOR AREA....POINT # 1
VCM CONCENTRATION = 12.0 PPM

08:59:36 7- 2- 1984
**** CAR-904 OFF LINE ****

CCR 000021509)

09:00:00 7- 2- 1984

LEAKS DURING THE PAST HOUR:

AREA 1	(CAR-171,PTS 1,2,3) =	0 LEAKS
AREA 2	(CAR-171,PTS 1,4) =	0 LEAKS
AREA 3	(CAR-171,PTS 4,9) =	0 LEAKS
AREA 4	(CAR-171,PTS 1,5) =	0 LEAKS
AREA 5	(CAR-171,PT 6) =	0 LEAKS
AREA 6	(CAR-171,PT 7) =	0 LEAKS
AREA 7	(CAR-171,PT 8) =	0 LEAKS
AREA 8	(CAR-171,PT 10) =	0 LEAKS
AREA 9	(CAR-401,PT 1) =	0 LEAKS
AREA 10	(CAR-401,PT 2) =	0 LEAKS
AREA 11	(CAR-401,PTS 3,4,5,8) =	0 LEAKS
AREA 12	(CAR-401,PT 6) =	0 LEAKS
AREA 13	(CAR-401,PT 7) =	0 LEAKS
AREA 14	(CAR-401,PTS 9,10) =	0 LEAKS

NUMBER OF TIMES OVER 10 PPM FOR EACH POINT:

POINT	PROCESS AREA	OFF-SITES	INCINERATOR
1	0	0	4
2	0	0	4
3	0	0	
4	0	0	
5	0	0	
6	0	0	
7	0	0	
8	0	0	
9	0	0	
10	0	0	

09:20:05 7- 2- 1984

**** CAR-904 OFF LINE ****

CCR 000021510)

NOT REPORTABLE
<10 ppm for all hourly
averages

07:12:09 7- 2- 1984
**** CAR-171 OFF LINE ****

07:12:13 7- 2- 1984
**** CAR-401 OFF LINE ****

07:51:33 7- 2- 1984
**** HIGH VCM IN INCINERATOR AREA....POINT # 1
VCM CONCENTRATION = 43.7 PPM

07:52:24 7- 2- 1984
**** HIGH VCM IN INCINERATOR AREA....POINT # 2
VCM CONCENTRATION = 43.7 PPM

CCR 000021511)

07:53:32 7- 2- 1984

**** HIGH VCM IN INCINERATOR AREA....POINT # 1
VCM CONCENTRATION = 43.7 PPM

07:54:40 7- 2- 1984

**** HIGH VCM IN INCINERATOR AREA....POINT # 2
VCM CONCENTRATION = 43.7 PPM

07:55:31 7- 2- 1984

**** HIGH VCM IN INCINERATOR AREA....POINT # 1
VCM CONCENTRATION = 43.7 PPM

07:56:39 7- 2- 1984

**** HIGH VCM IN INCINERATOR AREA....POINT # 2
VCM CONCENTRATION = 43.7 PPM

07:57:30 7- 2- 1984

**** HIGH VCM IN INCINERATOR AREA....POINT # 1
VCM CONCENTRATION = 43.7 PPM

CCR 000021512)

07:58:38

7- 2- 1984

**** HIGH VCM IN INCINERATOR AREA....POINT # 2
VCM CONCENTRATION = 43.7 PPM

07:59:29

7- 2- 1984

**** HIGH VCM IN INCINERATOR AREA....POINT # 1
VCM CONCENTRATION = 43.7 PPM

07:59:45

7- 2- 1984

**** CAR-904 OFF LINE ****

07:51:33
until

07:59:29

#1

43.7

43.7

43.7

43.7

43.7

43.7

218.5

#2

43.7

43.7

43.7

43.7

43.7

174.8

$$\frac{218.5}{30} = 7.28$$

$$\frac{174.8}{30} = 5.83$$

08:00:09

7- 2- 1984

LEAKS DURING THE PAST HOUR:

AREA 1 (CAR-171, PTS 1, 2, 3) = 0 LEAKS

AREA 2 (CAR-171, PTS 1, 4) = 0 LEAKS

AREA 3 (CAR-171, PTS 4, 9) = 0 LEAKS

AREA 4 (CAR-171, PTS 1, 5) = 0 LEAKS

AREA 5 (CAR-171, PT 6) = 0 LEAKS

AREA 6 (CAR-171, PT 7) = 0 LEAKS

AREA 7 (CAR-171, PT 8) = 0 LEAKS

AREA 8 (CAR-171, PT 10) = 0 LEAKS

AREA 9 (CAR-401, PT 1) = 0 LEAKS

CCR 000021513)

AREA 11 (CAR-401, PTS 3,4,5,8) = 0 LEAKS
 AREA 12 (CAR-401, PT 6) = 0 LEAKS
 AREA 13 (CAR-401, PT 7) = 0 LEAKS
 AREA 14 (CAR-401, PTS 9,10) = 0 LEAKS

NUMBER OF TIMES OVER 10 PPM FOR EACH POINT:

POINT	PROCESS AREA	OFF-SITES	INCINERATOR
1	0	0	5
2	0	0	4
3	0	0	
4	0	0	
5	0	0	
6	0	0	
7	0	0	
8	0	0	
9	0	0	
10	0	0	

08:02:40 7- 2- 1984

**** HIGH VCM IN INCINERATOR AREA....POINT # 2
 VCM CONCENTRATION = 43.7 PPM

08:03:31 7- 2- 1984

**** HIGH VCM IN INCINERATOR AREA....POINT # 1
 VCM CONCENTRATION = 43.7 PPM

08:04:39 7- 2- 1984

**** HIGH VCM IN INCINERATOR AREA....POINT # 2
 VCM CONCENTRATION = 43.7 PPM

CCR 000021514)

08:05:30 7- 2- 1984

**** HIGH VCM IN INCINERATOR AREA....POINT # 1
 VCM CONCENTRATION = 43.7 PPM

DATE:

7/2/84

S/S SIGNATURE: _____

REPORT OF EPA VCM VENT NON-COMPLIANCE (See Note 1)

- 1) Area of Violation: Incinerator Stack G.C.
- 2) Time of Violation: 0751 - 0809
- 3) Duration of Non-Compliance: 18 minutes
- 4) Reason for Violation (See Note 2):
ran span check on AR-904
and didn't bypass the analyzer
- 5) Corrective Action Taken: stopped span check ...

Notes:

- 1) This report must be completed anytime that an hourly average emission from the incinerator or carbon beds exceeds 10 ppm VCM or the emission from the oxy unit exceeds 0.2 grams VCM per kilogram of EDC produced or a vent by-passes the incinerator.
- 2) Explain any circumstances which relate to the incident of non-compliance (i.e.; the incinerator was down so many hours because....)

NOT REPORTABLE

CCR 000021515

POINT	PROCESS AREA	OFF-SITES	INCINERATOR
1	0	0	0
2	0	0	0
3	0	0	
4	0	0	
5	0	0	
6	0	0	
7	0	0	
8	0	0	
9	0	0	
10	0	0	

NOT REPORTABLE
 <10ppm for all hourly
 averages

22:00:15 7- 3- 1984

LEAKS DURING THE PAST HOUR:

AREA 1	(CAR-171, PTS 1,2,3) =	0 LEAKS
AREA 2	(CAR-171, PTS 1,4) =	0 LEAKS
AREA 3	(CAR-171, PTS 4,9) =	0 LEAKS
AREA 4	(CAR-171, PTS 1,5) =	0 LEAKS
AREA 5	(CAR-171, PT 6) =	0 LEAKS
AREA 6	(CAR-171, PT 7) =	0 LEAKS
AREA 7	(CAR-171, PT 8) =	0 LEAKS
AREA 8	(CAR-171, PT 10) =	0 LEAKS
AREA 9	(CAR-401, PT 1) =	0 LEAKS
AREA 10	(CAR-401, PT 2) =	0 LEAKS
AREA 11	(CAR-401, PTS 3,4,5,8) =	0 LEAKS
AREA 12	(CAR-401, PT 6) =	0 LEAKS
AREA 13	(CAR-401, PT 7) =	0 LEAKS
AREA 14	(CAR-401, PTS 9,10) =	0 LEAKS

NUMBER OF TIMES OVER 10 PPM FOR EACH POINT:

POINT	PROCESS AREA	OFF-SITES	INCINERATOR
1	0	0	0
2	0	0	0
3	0	0	
4	0	0	
5	0	0	
6	0	0	
7	0	0	
8	0	0	
9	0	0	
10	0	0	

22:33:55 7- 3- 1984

**** HIGH VCM IN INCINERATOR AREA....POINT # 1
 VCM CONCENTRATION = 10.7 PPM

22:34:46 7- 3- 1984

**** HIGH VCM IN INCINERATOR AREA....POINT # 2
VCM CONCENTRATION = 10.6 PPM

22:35:54 7- 3- 1984

**** HIGH VCM IN INCINERATOR AREA....POINT # 1
VCM CONCENTRATION = 10.5 PPM

22:36:45 7- 3- 1984

**** HIGH VCM IN INCINERATOR AREA....POINT # 2
VCM CONCENTRATION = 10.4 PPM

CCR 000021517)

22:37:53 7- 3- 1984

**** HIGH VCM IN INCINERATOR AREA....POINT # 1
VCM CONCENTRATION = 10.5 PPM

22:38:44 7- 3- 1984
 **** HIGH VCM IN INCINERATOR AREA....POINT # 2
 VCM CONCENTRATION = 10.4 PPM

22:46:57 7- 3- 1984
 **** HIGH VCM IN INCINERATOR AREA....POINT # 2
 VCM CONCENTRATION = 10.7 PPM

22:47:48 7- 3- 1984
 **** HIGH VCM IN INCINERATOR AREA....POINT # 1
 VCM CONCENTRATION = 10.6 PPM

	#1	#2
22:33:55	10.7	10.6
until	10.5	10.4
22:58:57	10.5	10.4
	10.6	10.7
	12.7	12.9
	12.4	12.0
	<u>67.4</u>	<u>78.9</u>

22:54:53 7- 3- 1984
 **** HIGH VCM IN INCINERATOR AREA....POINT # 2
 VCM CONCENTRATION = 12.9 PPM

$$\frac{67.4}{30} = 2.25$$

$$\frac{78.9}{30} = 2.63$$

22:55:44 7- 3- 1984
 **** HIGH VCM IN INCINERATOR AREA....POINT # 1
 VCM CONCENTRATION = 12.7 PPM

CCR 000021518

22:56:52 7- 3- 1984
**** HIGH VCM IN INCINERATOR AREA....POINT # 2
VCM CONCENTRATION = 12.0 PPM

22:57:43 7- 3- 1984
**** HIGH VCM IN INCINERATOR AREA....POINT # 1
VCM CONCENTRATION = 12.4 PPM

22:58:51 7- 3- 1984
**** HIGH VCM IN INCINERATOR AREA....POINT # 2
VCM CONCENTRATION = 11.9 PPM

5:00:05 7- 3- 1984
LEAKS DURING THE PAST HOUR:
AREA 1 (CAR-171,PTS 1,2,3) = 0 LEAKS
AREA 2 (CAR-171,PTS 1,4) = 0 LEAKS
AREA 3 (CAR-171,PTS 4,9) = 0 LEAKS
AREA 4 (CAR-171,PTS 1,5) = 0 LEAKS
AREA 5 (CAR-171,PT 6) = 0 LEAKS
AREA 6 (CAR-171,PT 7) = 0 LEAKS

CCR 000021519)

AREA 8 (CAR-171,PT 10) = 0 LEAKS
 AREA 9 (CAR-401,PT 1) = 0 LEAKS
 AREA 10 (CAR-401,PT 2) = 0 LEAKS
 AREA 11 (CAR-401,PTS 3,4,5,8) = 0 LEAKS
 AREA 12 (CAR-401,PT 6) = 0 LEAKS
 AREA 13 (CAR-401,PT 7) = 0 LEAKS
 AREA 14 (CAR-401,PTS 9,10) = 0 LEAKS

NUMBER OF TIMES OVER 10 PPM FOR EACH POINT:

POINT	PROCESS AREA	OFF-SITES	INCINERATOR
1	0	0	6
2	0	0	7
3	0	0	
4	0	0	
5	0	0	
6	0	0	
7	0	0	
8	0	0	
9	0	0	
10	0	0	

CCR 000021520 1

23:49:21 7- 3- 1984
 *** HIGH VCM IN OFF-SITES AREA....POINT # 2
 VCM CONCENTRATION = 16.2 PPM

DATE:

7/3/84

S/S SIGNATURE:

Buller

REPORT OF EPA VCM VENT NON-COMPLIANCE (See Note 1)

- 1) Area of Violation: Incinerator Stack G.C.
- 2) Time of Violation: 2233 - 2258
- 3) Duration of Non-Compliance: 25 minutes
- 4) Reason for Violation (See Note 2):
AR - 904 went out ; tried
SPAN check @ 0410 and
Nothing happened
- 5) Corrective Action Taken:
called out inst. person

Notes:

- 1) This report must be completed anytime that an hourly average emission from the incinerator or carbon beds exceeds 10 ppm VCM or the emission from the oxy unit exceeds 0.2 grams VCM per kilogram of EDC produced or a vent by-passes the incinerator.
- 2) Explain any circumstances which relate to the incident of non-compliance (i.e.; the incinerator was down so many hours because....)

NOT REPORTABLE

CCR 000021521

VCM VENT REPORT (Cont'd)

(Circle answer)

What was the condition of the off-line unit:

- | | | |
|-------------------------------------|-----|----|
| 1) Down for repairs or maintenance? | Yes | No |
| 2) On hot standby? | Yes | No |
| 3) Other? Explain _____ | | |

What action was taken to minimize the effects of the incident:

- | | | |
|--|-----|----|
| 1) Off-line unit was started up/placed on-line? | Yes | No |
| 2) Vents were cut back? | Yes | No |
| 3) Supplier of raw material (ethylene or chlorine) was notified of off-spec product? | Yes | No |
| 4) Vents were split? | Yes | No |
| 5) Other? Explain _____ | | |

Were any manual vents occurring in the main plant?
If yes, what was being vented? _____

Yes No

Were any of the following units down:

- | | | |
|----------------------|------------|----|
| Oxychlorination? | <u>Yes</u> | No |
| Direct Chlorination? | <u>Yes</u> | No |
| LE Column? | <u>Yes</u> | No |
| Tank Farm Blower? | <u>Yes</u> | No |

Were tank cars being loaded?

Yes No

Was a ship being loaded?

Yes No

Was recycle EDC routed to:

- | | | |
|--------------|-----|-----------|
| Wash System? | Yes | <u>No</u> |
| HE Column? | Yes | <u>No</u> |
| R-101? | Yes | <u>No</u> |
| T-101? | Yes | <u>No</u> |

Notes:

CCR 000021522)

1. This report must be completed anytime that the concentration of VCM in the incinerator stock gas exceeds 10 ppm, a vent by-passes the incinerator, or an incinerator automatically shuts down.
2. If a vent by-passes the incinerator for greater than one hour or both incinerators are down for more than one hour the appropriate personnel (process superintendent, operations duty person, or chief process engineer) must be notified immediately.

Date:

7-22-84

S/S Signature:

Ken L...

VCM VENT REPORT (See Note 1)

Date of incident

7-22-84

Time of incident

8:30 PM

TANK FARM VENT ONLY

On-line unit

I-901

I-901B

Off-line unit

I-901

I-901B

Main Plant VCM Production Rate

0

MMlbs./day

Wet Vent Flow Rate

No movement in on OGT SCFH

Dry Vent Flow Rate

of EDC Tanks

SCFH

UNIT DOWN

Firebox Temperature

°C

(Circle answer)

Did the Wet Vent by-pass?

Yes

No

If yes, how long did it by-pass?

(See Note 2)

Did the Dry Vent by-pass?

Yes

No

If yes, how long did it by-pass?

(See Note 2)

Did the Tank Farm Vent by-pass?

Yes

Not yet to

If yes, how long did it by-pass?

(See Note 2)

Lined to Atmos.

Did the on-line unit shutdown?

Yes

No

If yes:

1) How long did it take to bring a unit on-line?

(See Note 2)

2) What condition initiated the shutdown:

a) High firebox temperature?

Yes

No

b) Low steam drum level?

Yes

No

c) High HCl absorber temperature?

Yes

No

d) Low combustion air flow?

Yes

No

e) Loss of flame?

Yes

No

f) Power failure?

Yes

No

g) Manual (Operator) shutdown?

Yes

No

What caused the incident checked above:

1) Excessive vent flow?

Yes

No

2) Rich vent flow, i.e. high ethane in ethylene, etc.?

Yes

No

3) Steam outage?

Yes

No

4) Electricity outage?

Yes

No

5) Other? Explain

BL-412B froze up -

BL-412A DOWN for repairs

CCR 000021523

17:03:54 7- 25- 1984

**** HIGH VCM IN INCINERATOR AREA....POINT # 2
VCM CONCENTRATION = 14.4 PPM

17:20:03 7- 25- 1984

**** HIGH VCM IN INCINERATOR AREA....POINT # 2
VCM CONCENTRATION = 43.7 PPM

17:20:54 7- 25- 1984

**** HIGH VCM IN INCINERATOR AREA....POINT # 1
VCM CONCENTRATION = 43.7 PPM

CCR 000021524)

17:27:08 7- 25- 1984
**** HIGH VCM IN INCINERATOR AREA....POINT # 1
VCM CONCENTRATION = 12.1 PPM

17:27:59 7- 25- 1984
**** HIGH VCM IN INCINERATOR AREA....POINT # 2
VCM CONCENTRATION = 12.0 PPM

17:29:07 7- 25- 1984
**** HIGH VCM IN INCINERATOR AREA....POINT # 1
VCM CONCENTRATION = 43.7 PPM

17:29:58 7- 25- 1984
**** HIGH VCM IN INCINERATOR AREA....POINT # 2
VCM CONCENTRATION = 43.7 PPM

17:39:02 7- 25- 1984
**** HIGH VCM IN INCINERATOR AREA....POINT # 1
VCM CONCENTRATION = 18.2 PPM

CCR 000021525)

**** HIGH VCM IN INCINERATOR AREA....POINT # 2
VCM CONCENTRATION = 18.1 PPM

17:41:01 7- 25- 1984

**** HIGH VCM IN INCINERATOR AREA....POINT # 1
VCM CONCENTRATION = 43.7 PPM

17:41:52 7- 25- 1984

**** HIGH VCM IN INCINERATOR AREA....POINT # 2
VCM CONCENTRATION = 43.7 PPM

17:43:00 7- 25- 1984

**** HIGH VCM IN INCINERATOR AREA....POINT # 1
VCM CONCENTRATION = 43.7 PPM

17:44:08 7- 25- 1984

**** HIGH VCM IN INCINERATOR AREA....POINT # 2
VCM CONCENTRATION = 43.7 PPM

17:44:59 7- 25- 1984

CCR 000021526)

1700-1758

17:46:07 7- 25- 1984
 **** HIGH VCM IN INCINERATOR AREA....POINT # 2
 VCM CONCENTRATION = 11.5 PPM

17:46:58 7- 25- 1984
 **** HIGH VCM IN INCINERATOR AREA....POINT # 1
 VCM CONCENTRATION = 11.3 PPM

17:48:06 7- 25- 1984
 **** HIGH VCM IN INCINERATOR AREA....POINT # 2
 VCM CONCENTRATION = 13.6 PPM

17:48:57 7- 25- 1984
 **** HIGH VCM IN INCINERATOR AREA....POINT # 1
 VCM CONCENTRATION = 13.4 PPM

17:50:05 7- 25- 1984
 **** HIGH VCM IN INCINERATOR AREA....POINT # 2

#1	#2
14.6	14.9
43.7	14.4
12.1	43.7
43.7	12.0
18.2	43.7
43.7	18.1
43.7	43.7
43.7	43.7
11.3	11.5
13.4	13.6
11.2	11.3
17.1	17.4
15.1	15.3
13.5	13.7
13.9	317
358.9	

$$\frac{358.9}{30} = 12.0$$

$$\frac{317}{30} = 10.6$$

CCR 000021527

17:50:56 7- 25- 1984
**** HIGH VCM IN INCINERATOR AREA....POINT # 1
VCM CONCENTRATION = 11.2 PPM

17:52:04 7- 25- 1984
**** HIGH VCM IN INCINERATOR AREA....POINT # 2
VCM CONCENTRATION = 17.4 PPM

17:52:55 7- 25- 1984
**** HIGH VCM IN INCINERATOR AREA....POINT # 1
VCM CONCENTRATION = 17.1 PPM

17:54:03 7- 25- 1984
**** HIGH VCM IN INCINERATOR AREA....POINT # 2
VCM CONCENTRATION = 15.3 PPM

CCR 000021528)

17:54:54 7- 25- 1984
**** HIGH VCM IN INCINERATOR AREA....POINT # 1
VCM CONCENTRATION = 15.1 PPM

17:56:02 7- 25- 1984
**** HIGH VCM IN INCINERATOR AREA....POINT # 2
VCM CONCENTRATION = 13.7 PPM

17:56:53 7- 25- 1984
**** HIGH VCM IN INCINERATOR AREA....POINT # 1
VCM CONCENTRATION = 13.5 PPM

17:58:52 7- 25- 1984
**** HIGH VCM IN INCINERATOR AREA....POINT # 1
VCM CONCENTRATION = 13.9 PPM

18:00:06 7- 25- 1984
LEAKS DURING THE PAST HOUR:
AREA 1 (CAR-171,PTS 1,2,3) = 0 LEAKS
AREA 2 (CAR-171,PTS 1,4) = 0 LEAKS
AREA 3 (CAR-171,PTS 4,9) = 0 LEAKS
AREA 4 (CAR-171,PTS 1,5) = 0 LEAKS
AREA 5 (CAR-171,PT 6) = 0 LEAKS

CCR 000021529

AREA 7	(CAR-171,PT 8) =	0 LEAKS
AREA 8	(CAR-171,PT 10) =	0 LEAKS
AREA 9	(CAR-401,PT 1) =	0 LEAKS
AREA 10	(CAR-401,PT 2) =	0 LEAKS
AREA 11	(CAR-401,PTS 3,4,5,8) =	0 LEAKS
AREA 12	(CAR-401,PT 6) =	0 LEAKS
AREA 13	(CAR-401,PT 7) =	0 LEAKS
AREA 14	(CAR-401,PTS 9,10) =	0 LEAKS

NUMBER OF TIMES OVER 10 PPM FOR EACH POINT:

POINT	PROCESS AREA	OFF-SITES	INCINERATOR
1	0	0	15
2	0	0	13
3	0	0	
4	0	0	
5	0	0	
6	0	0	
7	0	0	
8	0	0	
9	0	0	
10	0	0	

19:00:14 7- 25- 1984

LEAKS DURING THE PAST HOUR:

AREA 1	(CAR-171,PTS 1,2,3) =	0 LEAKS
AREA 2	(CAR-171,PTS 1,4) =	0 LEAKS
AREA 3	(CAR-171,PTS 4,9) =	0 LEAKS
AREA 4	(CAR-171,PTS 1,5) =	0 LEAKS
AREA 5	(CAR-171,PT 6) =	0 LEAKS
AREA 6	(CAR-171,PT 7) =	0 LEAKS
AREA 7	(CAR-171,PT 8) =	0 LEAKS
AREA 8	(CAR-171,PT 10) =	0 LEAKS
AREA 9	(CAR-401,PT 1) =	0 LEAKS
AREA 10	(CAR-401,PT 2) =	0 LEAKS
AREA 11	(CAR-401,PTS 3,4,5,8) =	0 LEAKS
AREA 12	(CAR-401,PT 6) =	0 LEAKS
AREA 13	(CAR-401,PT 7) =	0 LEAKS
AREA 14	(CAR-401,PTS 9,10) =	0 LEAKS

NUMBER OF TIMES OVER 10 PPM FOR EACH POINT:

POINT	PROCESS AREA	OFF-SITES	INCINERATOR
1	0	0	0
2	0	0	0
3	0	0	
4	0	0	
5	0	0	
6	0	0	
7	0	0	
8	0	0	
9	0	0	
10	0	0	

CCR 000021530)

20:00:05 7- 25- 1984

LEAKS DURING THE PAST HOUR:

AREA 1	(CAR-171,PTS 1,2,3) =	0 LEAKS
AREA 2	(CAR-171,PTS 1,4) =	0 LEAKS
AREA 3	(CAR-171,PTS 4,9) =	0 LEAKS
AREA 4	(CAR-171,PTS 1,5) =	0 LEAKS
AREA 5	(CAR-171,PT 6) =	0 LEAKS
AREA 6	(CAR-171,PT 7) =	0 LEAKS
AREA 7	(CAR-171,PT 8) =	0 LEAKS
AREA 8	(CAR-171,PT 10) =	0 LEAKS
AREA 9	(CAR-401,PT 1) =	0 LEAKS
AREA 10	(CAR-401,PT 2) =	0 LEAKS
AREA 11	(CAR-401,PTS 3,4,5,8) =	0 LEAKS
AREA 12	(CAR-401,PT 6) =	0 LEAKS
AREA 13	(CAR-401,PT 7) =	0 LEAKS
AREA 14	(CAR-401,PTS 9,10) =	0 LEAKS

NUMBER OF TIMES OVER 10 PPM FOR EACH POINT:

POINT	PROCESS AREA	OFF-SITES	INCINERATOR
1	0	0	0
2	0	0	0
3	0	0	
4	0	0	
5	0	0	
6	0	0	
7	0	0	
8	0	0	
9	0	0	
10	0	0	

20:34:03 7- 25- 1984

*** HIGH VCM IN INCINERATOR AREA....POINT # 2
VCM CONCENTRATION = 43.7 PPM

20:34:54 7- 25- 1984

*** HIGH VCM IN INCINERATOR AREA....POINT # 1
VCM CONCENTRATION = 43.7 PPM

CCR 000021531)

20:36:02 7- 25- 1984
**** HIGH VCM IN INCINERATOR AREA....POINT # 2
VCM CONCENTRATION = 43.7 PPM

20:36:53 7- 25- 1984
**** HIGH VCM IN INCINERATOR AREA....POINT # 1
VCM CONCENTRATION = 43.7 PPM

2034-2038

20:38:01 7- 25- 1984
**** HIGH VCM IN INCINERATOR AREA....POINT # 2
VCM CONCENTRATION = 13.7 PPM

#1	#2
43.7	43.7
43.7	43.7
<u>87.4</u>	<u>13.7</u>
	101.1
$\frac{87.4}{31} = 2.9$	$\frac{101.1}{30} = 3.4$

21:00:13 7- 25- 1984
LEAKS DURING THE PAST HOUR:
AREA 1 (CAR-171,PTS 1,2,3) = 0 LEAKS
AREA 2 (CAR-171,PTS 1,4) = 0 LEAKS
AREA 3 (CAR-171,PTS 4,9) = 0 LEAKS
AREA 4 (CAR-171,PTS 1,5) = 0 LEAKS
AREA 5 (CAR-171,PT 6) = 0 LEAKS
AREA 6 (CAR-171,PT 7) = 0 LEAKS
AREA 7 (CAR-171,PT 8) = 0 LEAKS
AREA 8 (CAR-171,PT 10) = 0 LEAKS
AREA 9 (CAR-401,PT 1) = 0 LEAKS
AREA 10 (CAR-401,PT 2) = 0 LEAKS
AREA 11 (CAR-401,PTS 3,4,5,8) = 0 LEAKS
AREA 12 (CAR-401,PT 6) = 0 LEAKS
AREA 13 (CAR-401,PT 7) = 0 LEAKS

CCR 000021532 1

AREA 14 (CAR-401,PTS 9,10) = 0 LEAKS

NUMBER OF TIMES OVER 10 PPM FOR EACH POINT:

INT	PROCESS AREA	OFF-SITES	INCINERATOR
1	0	0	2
2	0	0	3
3	0	0	
4	0	0	
5	0	0	
6	0	0	
7	0	0	
8	0	0	
9	0	0	
10	0	0	

22:00:03 7- 25- 1984

LEAKS DURING THE PAST HOUR:

AREA 1 (CAR-171,PTS 1,2,3) = 0 LEAKS
AREA 2 (CAR-171,PTS 1,4) = 0 LEAKS
AREA 3 (CAR-171,PTS 4,9) = 0 LEAKS
AREA 4 (CAR-171,PTS 1,5) = 0 LEAKS
AREA 5 (CAR-171,PT 6) = 0 LEAKS
AREA 6 (CAR-171,PT 7) = 0 LEAKS
AREA 7 (CAR-171,PT 8) = 0 LEAKS
AREA 8 (CAR-171,PT 10) = 0 LEAKS
AREA 9 (CAR-401,PT 1) = 0 LEAKS
AREA 10 (CAR-401,PT 2) = 0 LEAKS
AREA 11 (CAR-401,PTS 3,4,5,8) = 0 LEAKS
AREA 12 (CAR-401,PT 6) = 0 LEAKS
AREA 13 (CAR-401,PT 7) = 0 LEAKS
AREA 14 (CAR-401,PTS 9,10) = 0 LEAKS

NUMBER OF TIMES OVER 10 PPM FOR EACH POINT:

POINT	PROCESS AREA	OFF-SITES	INCINERATOR
1	0	0	0
2	0	0	0
3	0	0	
4	0	0	
5	0	0	
6	0	0	
7	0	0	
8	0	0	
9	0	0	
10	0	0	

CCR 000021533 1

15:33:51 7- 25- 1984

**** HIGH VCM IN INCINERATOR AREA....POINT # 2
VCM CONCENTRATION = 43.7 PPM

15:34:59 7- 25- 1984

**** HIGH VCM IN INCINERATOR AREA....POINT # 1
VCM CONCENTRATION = 43.7 PPM

15:36:07 7- 25- 1984

**** HIGH VCM IN INCINERATOR AREA....POINT # 2
VCM CONCENTRATION = 43.7 PPM

15:36:58 7- 25- 1984

**** HIGH VCM IN INCINERATOR AREA....POINT # 1
VCM CONCENTRATION = 43.7 PPM

15:38:06 7- 25- 1984

**** HIGH VCM IN INCINERATOR AREA....POINT # 2
VCM CONCENTRATION = 21.7 PPM

CCR 000021534)

15:38:57 7- 25- 1984

**** HIGH VCM IN INCINERATOR AREA....POINT # 1
VCM CONCENTRATION = 21.4 PPM

15:40:05 7- 25- 1984

**** HIGH VCM IN INCINERATOR AREA....POINT # 2
VCM CONCENTRATION = 12.2 PPM

15:40:56 7- 25- 1984

**** HIGH VCM IN INCINERATOR AREA....POINT # 1
VCM CONCENTRATION = 12.0 PPM

16:00:00 7- 25- 1984

LEAKS DURING THE PAST HOUR:

AREA 1	(CAR-171, PTS 1, 2, 3) =	0 LEAKS
AREA 2	(CAR-171, PTS 1, 4) =	0 LEAKS
AREA 3	(CAR-171, PTS 4, 9) =	0 LEAKS
AREA 4	(CAR-171, PTS 1, 5) =	0 LEAKS
AREA 5	(CAR-171, PT 6) =	0 LEAKS
AREA 6	(CAR-171, PT 7) =	0 LEAKS

CCR 000021535)

AREA 8 (CAR-171,PT 10) = 0 LEAKS
AREA 9 (CAR-401,PT 1) = 0 LEAKS
AREA 10 (CAR-401,PT 2) = 0 LEAKS
AREA 11 (CAR-401,PTS 3,4,5,8) = 0 LEAKS
AREA 12 (CAR-401,PT 6) = 0 LEAKS
AREA 13 (CAR-401,PT 7) = 0 LEAKS
AREA 14 (CAR-401,PTS 9,10) = 0 LEAKS

NUMBER OF TIMES OVER 10 PPM FOR EACH POINT:

POINT	PROCESS AREA	OFF-SITES	INCINERATOR
1	0	0	8
2	0	0	7
3	0	0	
4	0	0	
5	0	0	
6	0	0	
7	0	0	
8	0	0	
9	0	0	
10	0	0	

16:05:05 7- 25- 1984

**** HIGH VCM IN INCINERATOR AREA....POINT # 1
VCM CONCENTRATION = 20.2 PPM

16:05:56 7- 25- 1984

**** HIGH VCM IN INCINERATOR AREA....POINT # 2
VCM CONCENTRATION = 20.0 PPM

16:16:59 7- 25- 1984

**** HIGH VCM IN INCINERATOR AREA....POINT # 1
VCM CONCENTRATION = 21.2 PPM

16:18:07 7- 25- 1984

**** HIGH VCM IN INCINERATOR AREA....POINT # 2
VCM CONCENTRATION = 15.3 PPM

CCR 000021536)

16:18:58 7- 25- 1984
**** HIGH VCM IN INCINERATOR AREA....POINT # 1
VCM CONCENTRATION = 15.1 PPM

16:20:06 7- 25- 1984
**** HIGH VCM IN INCINERATOR AREA....POINT # 2
VCM CONCENTRATION = 14.8 PPM

16:20:57 7- 25- 1984
**** HIGH VCM IN INCINERATOR AREA....POINT # 1
VCM CONCENTRATION = 14.6 PPM

16:28:02 7- 25- 1984
**** HIGH VCM IN INCINERATOR AREA....POINT # 2
VCM CONCENTRATION = 43.7 PPM

CCR 000021537)

16:28:53 7- 25- 1984
**** HIGH VCM IN INCINERATOR AREA....POINT # 1
VCM CONCENTRATION = 43.7 PPM

16:30:01 7- 25- 1984
**** HIGH VCM IN INCINERATOR AREA....POINT # 2
VCM CONCENTRATION = 43.7 PPM

16:30:52 7- 25- 1984
**** HIGH VCM IN INCINERATOR AREA....POINT # 1
VCM CONCENTRATION = 43.7 PPM

16:32:00 7- 25- 1984
**** HIGH VCM IN INCINERATOR AREA....POINT # 2
VCM CONCENTRATION = 43.7 PPM

16:32:51 7- 25- 1984
**** HIGH VCM IN INCINERATOR AREA....POINT # 1
VCM CONCENTRATION = 43.7 PPM

CCR 000021538)

16:33:59 7- 25- 1984
**** HIGH VCM IN INCINERATOR AREA....POINT # 2
VCM CONCENTRATION = 43.7 PPM

16:35:07 7- 25- 1984
 **** HIGH VCM IN INCINERATOR AREA....POINT # 1
 VCM CONCENTRATION = 43.7 PPM

1605-1658

16:35:58 7- 25- 1984
 **** HIGH VCM IN INCINERATOR AREA....POINT # 2
 VCM CONCENTRATION = 43.7 PPM

16:37:06 7- 25- 1984
 **** HIGH VCM IN INCINERATOR AREA....POINT # 1
 VCM CONCENTRATION = 43.7 PPM

16:37:57 7- 25- 1984
 **** HIGH VCM IN INCINERATOR AREA....POINT # 2
 VCM CONCENTRATION = 43.7 PPM

16:39:05 7- 25- 1984
 **** HIGH VCM IN INCINERATOR AREA....POINT # 1
 VCM CONCENTRATION = 43.7 PPM

#1	#2
20.2	20.0
21.2	15.3
15.1	14.8
14.6	43.7 1
43.7	43.7 2
43.7	43.7 3
43.7	43.7 4
43.7	43.7 5
43.7	43.7 6
43.7	43.7 7
43.7	43.7 8
43.7	43.7 9
43.7	43.7 10
43.7	43.7 11
43.7	43.7 12
43.7	43.7 13
43.7	43.7 14
43.7	43.7 15
43.7	43.7 16
41.6	749.3
768.2	
$\frac{768.2}{30} = 25.6$	$\frac{749.3}{30} = 25.0$

CCR 000021539)

16:39:56 7- 25- 1984
*** HIGH VCM IN INCINERATOR AREA....POINT # 2
VCM CONCENTRATION = 43.7 PPM

16:41:04 7- 25- 1984
*** HIGH VCM IN INCINERATOR AREA....POINT # 1
VCM CONCENTRATION = 43.7 PPM

16:41:55 7- 25- 1984
*** HIGH VCM IN INCINERATOR AREA....POINT # 2
VCM CONCENTRATION = 43.7 PPM

16:43:03 7- 25- 1984
*** HIGH VCM IN INCINERATOR AREA....POINT # 1
VCM CONCENTRATION = 43.7 PPM

CCR 000021540)

16:43:54 7- 25- 1984
*** HIGH VCM IN INCINERATOR AREA....POINT # 2
VCM CONCENTRATION = 43.7 PPM

16:45:02 7- 25- 1984

*** HIGH VCM IN INCINERATOR AREA....POINT # 1
VCM CONCENTRATION = 43.7 PPM

16:45:53 7- 25- 1984

**** HIGH VCM IN INCINERATOR AREA....POINT # 2
VCM CONCENTRATION = 43.7 PPM

16:47:01 7- 25- 1984

*** HIGH VCM IN INCINERATOR AREA....POINT # 1
VCM CONCENTRATION = 43.7 PPM

16:47:52 7- 25- 1984

**** HIGH VCM IN INCINERATOR AREA....POINT # 2
VCM CONCENTRATION = 43.7 PPM

:49:00 7- 25- 1984

** HIGH VCM IN INCINERATOR AREA....POINT # 1
VCM CONCENTRATION = 43.7 PPM

CCR 000021541)

16:49:51 7- 25- 1984
*** HIGH VCM IN INCINERATOR AREA....POINT # 2
VCM CONCENTRATION = 43.7 PPM

16:50:59 7- 25- 1984
*** HIGH VCM IN INCINERATOR AREA....POINT # 1
VCM CONCENTRATION = 43.7 PPM

16:52:07 7- 25- 1984
*** HIGH VCM IN INCINERATOR AREA....POINT # 2
VCM CONCENTRATION = 43.7 PPM

16:52:58 7- 25- 1984
*** HIGH VCM IN INCINERATOR AREA....POINT # 1
VCM CONCENTRATION = 43.7 PPM

16:54:06 7- 25- 1984
*** HIGH VCM IN INCINERATOR AREA....POINT # 2
VCM CONCENTRATION = 43.7 PPM

CCR 000021542)

16:54:57 7- 25- 1984
**** HIGH VCM IN INCINERATOR AREA....POINT # 1
VCM CONCENTRATION = 43.7 PPM

16:56:05 7- 25- 1984
**** HIGH VCM IN INCINERATOR AREA....POINT # 2
VCM CONCENTRATION = 43.7 PPM

16:56:56 7- 25- 1984
**** HIGH VCM IN INCINERATOR AREA....POINT # 1
VCM CONCENTRATION = 43.7 PPM

16:58:04 7- 25- 1984
**** HIGH VCM IN INCINERATOR AREA....POINT # 2
VCM CONCENTRATION = 43.7 PPM

16:58:55 7- 25- 1984
**** HIGH VCM IN INCINERATOR AREA....POINT # 1
VCM CONCENTRATION = 41.6 PPM

CCR 000021543)

17:00:04 7- 25- 1984
*** HIGH VCM IN INCINERATOR AREA....POINT # 2
VCM CONCENTRATION = 14.9 PPM

17:00:15 7- 25- 1984
LEAKS DURING THE PAST HOUR:
AREA 1 (CAR-171,PTS 1,2,3) = 0 LEAKS
AREA 2 (CAR-171,PTS 1,4) = 0 LEAKS
AREA 3 (CAR-171,PTS 4,9) = 0 LEAKS
AREA 4 (CAR-171,PTS 1,5) = 0 LEAKS
AREA 5 (CAR-171,PT 6) = 0 LEAKS
AREA 6 (CAR-171,PT 7) = 0 LEAKS
AREA 7 (CAR-171,PT 8) = 0 LEAKS
AREA 8 (CAR-171,PT 10) = 0 LEAKS
AREA 9 (CAR-401,PT 1) = 0 LEAKS
AREA 10 (CAR-401,PT 2) = 0 LEAKS
AREA 11 (CAR-401,PTS 3,4,5,8) = 0 LEAKS
AREA 12 (CAR-401,PT 6) = 0 LEAKS
AREA 13 (CAR-401,PT 7) = 0 LEAKS
AREA 14 (CAR-401,PTS 9,10) = 0 LEAKS

NUMBER OF TIMES OVER 10 PPM FOR EACH POINT:

POINT	PROCESS AREA	OFF-SITES	INCINERATOR
1	0	0	20
2	0	0	20
3	0	0	
4	0	0	
5	0	0	
6	0	0	
7	0	0	
8	0	0	
9	0	0	
10	0	0	

17:03:03 7- 25- 1984
*** HIGH VCM IN INCINERATOR AREA....POINT # 1
VCM CONCENTRATION = 14.6 PPM

CCR 000021544)

AREA 11 (CAR-401,PTS 3,4,5,8) = 0 LEAKS
 AREA 12 (CAR-401,PT 6) = 0 LEAKS
 AREA 13 (CAR-401,PT 7 = 0 LEAKS
 AREA 14 (CAR-401,PTS 9,10) = 0 LEAKS

NUMBER OF TIMES OVER 10 PPM FOR EACH POINT:

POINT	PROCESS AREA	OFF-SITES	INCINERATOR
1	0	0	0
2	0	0	0
3	0	0	
4	0	0	
5	0	0	
6	0	0	
7	0	0	
8	0	0	
9	0	0	
10	0	0	

13:12:04 7- 25- 1984

**** HIGH VCM IN INCINERATOR AREA....POINT # 2
 VCM CONCENTRATION = 19.4 PPM

13:12:55 7- 25- 1984

**** HIGH VCM IN INCINERATOR AREA....POINT # 1
 VCM CONCENTRATION = 19.1 PPM

13:14:03 7- 25- 1984

**** HIGH VCM IN INCINERATOR AREA....POINT # 2
 VCM CONCENTRATION = 43.7 PPM

13:14:54 7- 25- 1984

**** HIGH VCM IN INCINERATOR AREA....POINT # 1
 VCM CONCENTRATION = 43.7 PPM

1312-1316

#1	#2
19.1	19.4
43.7	43.7
43.7	43.7
<u>106.5</u>	<u>106.8</u>
$\frac{106.5}{20} = 3.55$	$\frac{106.8}{30} = 3.5$

CCR 000021545

13:16:02 7- 25- 1984
** HIGH VCM IN INCINERATOR AREA....POINT # 2
VCM CONCENTRATION = 43.7 PPM

13:16:53 7- 25- 1984
*** HIGH VCM IN INCINERATOR AREA....POINT # 1
VCM CONCENTRATION = 43.7 PPM

14:00:02 7- 25- 1984
LEAKS DURING THE PAST HOUR:
AREA 1 (CAR-171,PTS 1,2,3) = 0 LEAKS
AREA 2 (CAR-171,PTS 1,4) = 0 LEAKS
AREA 3 (CAR-171,PTS 4,9) = 0 LEAKS
AREA 4 (CAR-171,PTS 1,5) = 0 LEAKS
AREA 5 (CAR-171,PT 6) = 0 LEAKS
AREA 6 (CAR-171,PT 7) = 0 LEAKS
AREA 7 (CAR-171,PT 8) = 0 LEAKS
AREA 8 (CAR-171,PT 10) = 0 LEAKS
AREA 9 (CAR-401,PT 1) = 0 LEAKS
AREA 10 (CAR-401,PT 2) = 0 LEAKS
AREA 11 (CAR-401,PTS 3,4,5,8) = 0 LEAKS
AREA 12 (CAR-401,PT 6) = 0 LEAKS
AREA 13 (CAR-401,PT 7) = 0 LEAKS
EA 14 (CAR-401,PTS 9,10) = 0 LEAKS

CCR 000021546)

NUMBER OF TIMES OVER 10 PPM FOR EACH POINT:

POINT	PROCESS AREA	OFF-SITES	INCINERATOR
1	0	0	3

3	0	0
4	0	0
5	0	0
6	0	0
7	0	0
8	0	0
9	0	0
0	0	0

15:00:10 7- 25- 1984

LEAKS DURING THE PAST HOUR:

AREA 1	(CAR-171, PTS 1,2,3) =	0 LEAKS
AREA 2	(CAR-171, PTS 1,4) =	0 LEAKS
AREA 3	(CAR-171, PTS 4,9) =	0 LEAKS
AREA 4	(CAR-171, PTS 1,5) =	0 LEAKS
AREA 5	(CAR-171, PT 6) =	0 LEAKS
AREA 6	(CAR-171, PT 7) =	0 LEAKS
AREA 7	(CAR-171, PT 8) =	0 LEAKS
AREA 8	(CAR-171, PT 10) =	0 LEAKS
AREA 9	(CAR-401, PT 1) =	0 LEAKS
AREA 10	(CAR-401, PT 2) =	0 LEAKS
AREA 11	(CAR-401, PTS 3,4,5,8) =	0 LEAKS
AREA 12	(CAR-401, PT 6) =	0 LEAKS
AREA 13	(CAR-401, PT 7) =	0 LEAKS
AREA 14	(CAR-401, PTS 9,10) =	0 LEAKS

NUMBER OF TIMES OVER 10 PPM FOR EACH POINT:

POINT	PROCESS AREA	OFF-SITES	INCINERATOR
1	0	0	0
2	0	0	0
3	0	0	
4	0	0	
5	0	0	
6	0	0	
7	0	0	
8	0	0	
9	0	0	
10	0	0	

15:12:02 7- 25- 1984

*** HIGH VCM IN INCINERATOR AREA....POINT # 2
VCM CONCENTRATION = 43.7 PPM

CCR 000021547)

15:12:53 7- 25- 1984

*** HIGH VCM IN INCINERATOR AREA....POINT # 1

15:14:01 7- 25- 1984

**** HIGH VCM IN INCINERATOR AREA....POINT # 2
VCM CONCENTRATION = 43.7 PPM

15:14:52 7- 25- 1984

**** HIGH VCM IN INCINERATOR AREA....POINT # 1
VCM CONCENTRATION = 43.7 PPM

15:16:00 7- 25- 1984

**** HIGH VCM IN INCINERATOR AREA....POINT # 2
VCM CONCENTRATION = 43.7 PPM

1512-1540

15:16:51 7- 25- 1984

**** HIGH VCM IN INCINERATOR AREA....POINT # 1
VCM CONCENTRATION = 43.7 PPM

#1	#2
43.7	43.7
43.7	43.7
43.7	43.7
43.7	43.7
43.7	43.7
43.7	21.7
21.4	12.2
12.0	252.4
295.6	
$\frac{295.6}{30} = 9.85$	$\frac{252.4}{30} = 8.41$

15:33:00 7- 25- 1984

**** HIGH VCM IN INCINERATOR AREA....POINT # 1
VCM CONCENTRATION = 43.7 PPM

CCR 000021548 1

**** HIGH VCM IN OFF-SITES AREA....POINT # 10
VCM CONCENTRATION = 65.5 PPM

06:00:03 7- 25- 1984

LEAKS DURING THE PAST HOUR:

AREA 1	(CAR-171,PTS 1,2,3) =	0 LEAKS
AREA 2	(CAR-171,PTS 1,4) =	0 LEAKS
AREA 3	(CAR-171,PTS 4,9) =	0 LEAKS
AREA 4	(CAR-171,PTS 1,5) =	0 LEAKS
AREA 5	(CAR-171,PT 6) =	0 LEAKS
AREA 6	(CAR-171,PT 7) =	0 LEAKS
AREA 7	(CAR-171,PT 8) =	0 LEAKS
AREA 8	(CAR-171,PT 10) =	0 LEAKS
AREA 9	(CAR-401,PT 1) =	0 LEAKS
AREA 10	(CAR-401,PT 2) =	0 LEAKS
AREA 11	(CAR-401,PTS 3,4,5,8) =	0 LEAKS
AREA 12	(CAR-401,PT 6) =	0 LEAKS
AREA 13	(CAR-401,PT 7) =	0 LEAKS
AREA 14	(CAR-401,PTS 9,10) =	0 LEAKS

NUMBER OF TIMES OVER 10 PPM FOR EACH POINT:

POINT	- PROCESS AREA	OFF-SITES	INCINERATOR
1	0	0	0
2	0	0	0
3	0	0	
4	0	0	
5	0	0	
6	0	0	
7	0	0	
8	0	0	
9	0	0	
10	0	1	

06:17:02 7- 25- 1984

**** HIGH VCM IN INCINERATOR AREA....POINT # 1
VCM CONCENTRATION = 10.7 PPM

CCR 000021549)

06:22:59 7- 25- 1984
**** HIGH VCM IN INCINERATOR AREA....POINT # 1
VCM CONCENTRATION = 43.7 PPM

06:23:50 7- 25- 1984
**** HIGH VCM IN INCINERATOR AREA....POINT # 2
VCM CONCENTRATION = 43.7 PPM

06:24:58 7- 25- 1984
**** HIGH VCM IN INCINERATOR AREA....POINT # 1
VCM CONCENTRATION = 16.6 PPM

06:25:49 7- 25- 1984
**** HIGH VCM IN INCINERATOR AREA....POINT # 2
VCM CONCENTRATION = 16.4 PPM

06:26:57 7- 25- 1984
**** HIGH VCM IN INCINERATOR AREA....POINT # 1
VCM CONCENTRATION = 17.0 PPM

CCR 000021551)

**** HIGH VCM IN INCINERATOR AREA....POINT # 2
VCM CONCENTRATION = 16.8 PPM

07:00:11 7- 25- 1984

LEAKS DURING THE PAST HOUR:

AREA 1	(CAR-171,PTS 1,2,3) =	0 LEAKS
AREA 2	(CAR-171,PTS 1,4) =	0 LEAKS
AREA 3	(CAR-171,PTS 4,9) =	0 LEAKS
AREA 4	(CAR-171,PTS 1,5) =	0 LEAKS
AREA 5	(CAR-171,PT 6) =	0 LEAKS
AREA 6	(CAR-171,PT 7) =	0 LEAKS
AREA 7	(CAR-171,PT 8) =	0 LEAKS
AREA 8	(CAR-171,PT 10) =	0 LEAKS
AREA 9	(CAR-401,PT 1) =	0 LEAKS
AREA 10	(CAR-401,PT 2) =	0 LEAKS
AREA 11	(CAR-401,PTS 3,4,5,8) =	0 LEAKS
AREA 12	(CAR-401,PT 6) =	0 LEAKS
AREA 13	(CAR-401,PT 7) =	0 LEAKS
AREA 14	(CAR-401,PTS 9,10) =	0 LEAKS

NUMBER OF TIMES OVER 10 PPM FOR EACH POINT:

POINT	PROCESS AREA	OFF-SITES	INCINERATOR
1	0	0	6
2	0	0	6
3	0	0	
4	0	0	
5	0	0	
6	0	0	
7	0	0	
8	0	0	
9	0	0	
10	0	0	

CCR 000021552)

VCM VENT REPORT (Cont'd)

(Circle answer)

What was the condition of the off-line unit:

- | | | |
|-------------------------------------|-----|----|
| 1) Down for repairs or maintenance? | Yes | No |
| 2) On hot standby? | Yes | No |
| 3) Other? Explain _____ | | |

ON LINE WITH MAIN UNIT

What action was taken to minimize the effects of the incident:

- | | | |
|--|-----|----|
| 1) Off-line unit was started up/placed on-line? | Yes | No |
| 2) Vents were cut back? | Yes | No |
| 3) Supplier of raw material (ethylene or chlorine) was notified of off-spec product? | Yes | No |
| 4) Vents were split? | Yes | No |
| 5) Other? Explain _____ | | |

INCREASED AIR TO #2

Were any manual vents occurring in the main plant?
If yes, what was being vented? _____

Yes ☒ No

Were any of the following units down:

- | | | |
|----------------------|--------------------------------------|-------------------------------------|
| Oxychlorination? | ☒ Yes | ☐ No |
| Direct Chlorination? | ☐ Yes | ☒ No |
| LE Column? | ☐ Yes | ☒ No |
| Tank Farm Blower? | ☐ Yes | ☒ No |

Were tank cars being loaded?

☒ Yes ☐ No

Was a ship being loaded?

☒ Yes ☐ No

Was recycle EDC routed to:

- | | | |
|--------------|--------------------------------------|-------------------------------------|
| Wash System? | ☒ Yes | ☐ No |
| HE Column? | ☐ Yes | ☒ No |
| R-101? | ☐ Yes | ☒ No |
| T-101? | ☐ Yes | ☒ No |

CCR 000021553)

Notes:

1. This report must be completed anytime that the concentration of VCM in the incinerator stock gas exceeds 10 ppm, a vent by-passes the incinerator, or an incinerator automatically shuts down.
2. If a vent by-passes the incinerator for greater than one hour or both incinerators are down for more than one hour the appropriate personnel (process superintendent, operations duty person, or chief process engineer) must be notified immediately.

Date: 8/16/84

S/S Signature: CASH

VCM VENT REPORT (See Note 1)

Date of incident 7-25-84

Time of incident 1600 → 1800

On-line unit ✓ I-901 ✓ I-901B

Off-line unit I-901 I-901B

Main Plant VCM Production Rate 0.2000 MMlbs./day

Wet Vent Flow Rate SCFH

Dry Vent Flow Rate SCFH

Firebox Temperature 1250 °C

Did the Wet Vent by-pass? (Circle answer)
Yes No

If yes, how long did it by-pass? (See Note 2)

Did the Dry Vent by-pass? Yes No

If yes, how long did it by-pass? (See Note 2)

Did the Tank Farm Vent by-pass? Yes No

If yes, how long did it by-pass? (See Note 2)

Did the on-line unit shutdown? Yes No

If yes:

1) How long did it take to bring a unit on-line? N/A (See Note 2)

2) What condition initiated the shutdown:

a) High firebox temperature?	Yes	No
b) Low steam drum level?	Yes	No
c) High HCl absorber temperature?	Yes	No
d) Low combustion air flow?	Yes	No
e) Loss of flame?	Yes	No
f) Power failure?	Yes	No
g) Manual (Operator) shutdown?	Yes	No

What caused the incident checked above:

1) Excessive vent flow?	<u>Yes</u>	No
2) Rich vent flow, i.e. high ethane in ethylene, etc.?	Yes	No
3) Steam outage?	Yes	No
4) Electricity outage?	Yes	No
5) Other? Explain <u> </u>		

Unit was starting up and we burning
vents in both units. #2 had problems
due to plugged burner so we continue
to add air to unit to get full combustion

VCM VENT REPORT (Cont'd)

(Circle answer)

What was the condition of the off-line unit:

- 1) Down for repairs or maintenance?
- 2) On hot standby?
- 3) Other? Explain _____

Yes ☒ No ☐

What action was taken to minimize the effects of the incident:

- 1) Off-line unit was started up/placed on-line?
- 2) Vents were cut back?
- 3) Supplier of raw material (ethylene or chlorine) was notified of off-spec product?
- 4) Vents were split?
- 5) Other? Explain Cut back on vents of Tank Cars.

Yes ☒ No ☐
Yes ☒ No ☐
Yes ☐ No ☒
Yes ☒ No ☐

Were any manual vents occurring in the main plant?

If yes, what was being vented? Tank Cars.

Yes ☒ No ☐

Were any of the following units down:

- Oxychlorination?
- Direct Chlorination?
- LE Column?
- Tank Farm Blower?

Yes ☐ No ☒
Yes ☐ No ☒
Yes ☐ No ☒
Yes ☐ No ☒

Were tank cars being loaded?

Was a ship being loaded?

Was recycle EDC routed to:

Wash System?

HE Column?

R-101?

T-101?

Yes ☒ No ☐
Yes ☒ No ☐
~~Yes~~ ☒ No ☐
Yes ☐ No ☒
Yes ☐ No ☒
Yes ☒ No ☐

Notes:

CCR 000021555

1. This report must be completed anytime that the concentration of VCM in the incinerator stock gas exceeds 10 ppm, a vent by-passes the incinerator, or an incinerator automatically shuts down.
2. If a vent by-passes the incinerator for greater than one hour or both incinerators are down for more than one hour the appropriate personnel (process superintendent, operations duty person, or chief process engineer) must be notified immediately.

Date: 9-10-84

S/S Signature: C. Landon

VCM VENT REPORT (See Note 1)

Date of incident 9-10-84

Time of incident 1100

On-line unit ✓ I-901 I-901B

Off-line unit I-901 ✓ I-901B

Main Plant VCM Production Rate 2 MMlbs./day

Wet Vent Flow Rate 31,360 SCFH

Dry Vent Flow Rate 40,500 SCFH

Firebox Temperature 1300 °C

(Circle answer)

Did the Wet Vent by-pass? Yes No

If yes, how long did it by-pass? 5 sec. (See Note 2)

Did the Dry Vent by-pass? Yes No

If yes, how long did it by-pass? (See Note 2)

Did the Tank Farm Vent by-pass? Yes No

If yes, how long did it by-pass? (See Note 2)

Did the on-line unit shutdown? Yes No

If yes:

1) How long did it take to bring a unit on-line? (See Note 2)

2) What condition initiated the shutdown:

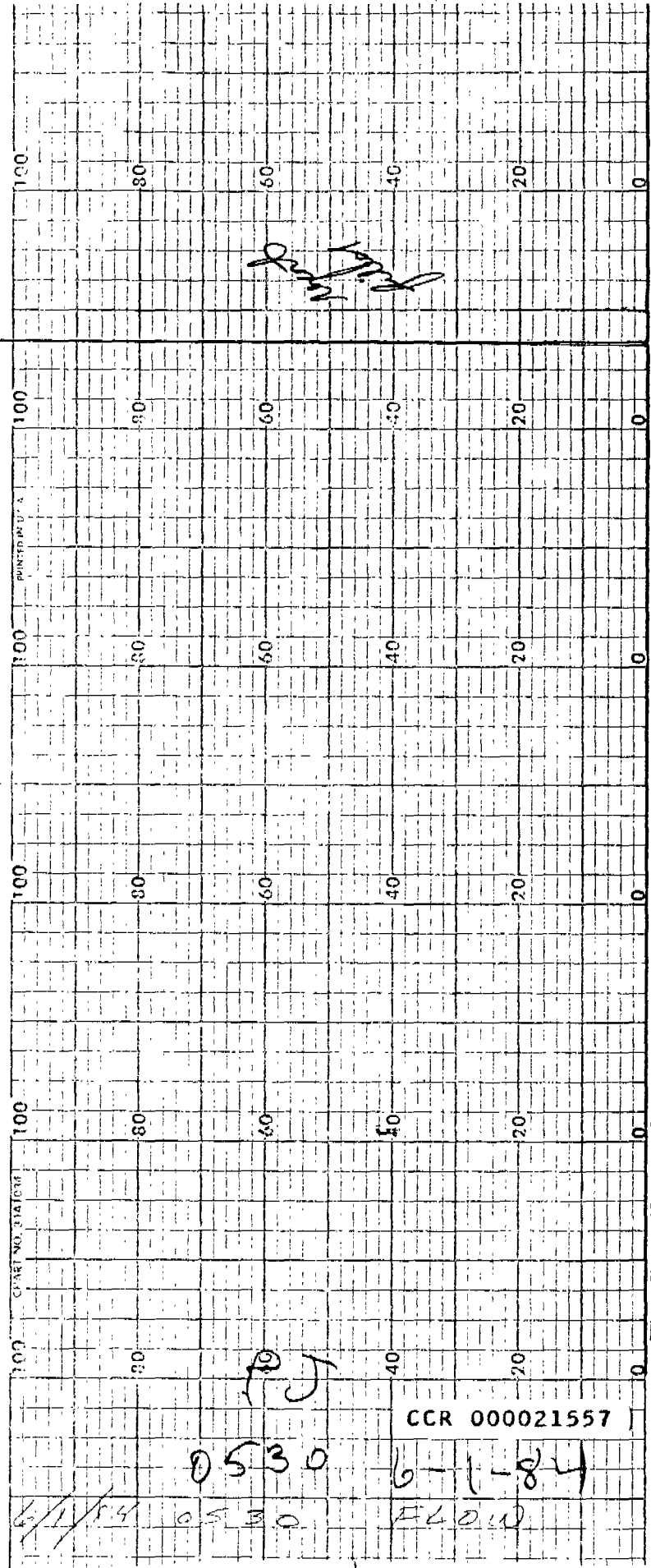
- | | | |
|-----------------------------------|-----|-----------|
| a) High firebox temperature? | Yes | <u>No</u> |
| b) Low steam drum level? | Yes | <u>No</u> |
| c) High HCl absorber temperature? | Yes | <u>No</u> |
| d) Low combustion air flow? | Yes | <u>No</u> |
| e) Loss of flame? | Yes | <u>No</u> |
| f) Power failure? | Yes | <u>No</u> |
| g) Manual (Operator) shutdown? | Yes | <u>No</u> |

What caused the incident checked above:

- | | | |
|--|------------|-----------|
| 1) Excessive vent flow? | <u>Yes</u> | No |
| 2) Rich vent flow, i.e. high ethane in ethylene, etc.? | <u>Yes</u> | No |
| 3) Steam outage? | Yes | <u>No</u> |
| 4) Electricity outage? | Yes | <u>No</u> |
| 5) Other? Explain | | |

Pinched back Venting Tank
Cars. were running LE/HR as part
of test run and header pressure was
@ 65" & on loading of cars vents
gipped to 90" momentarily; today inst.
are installing header alarms set @ 80"
5

CCR 000021556



Flow

PJ

0530

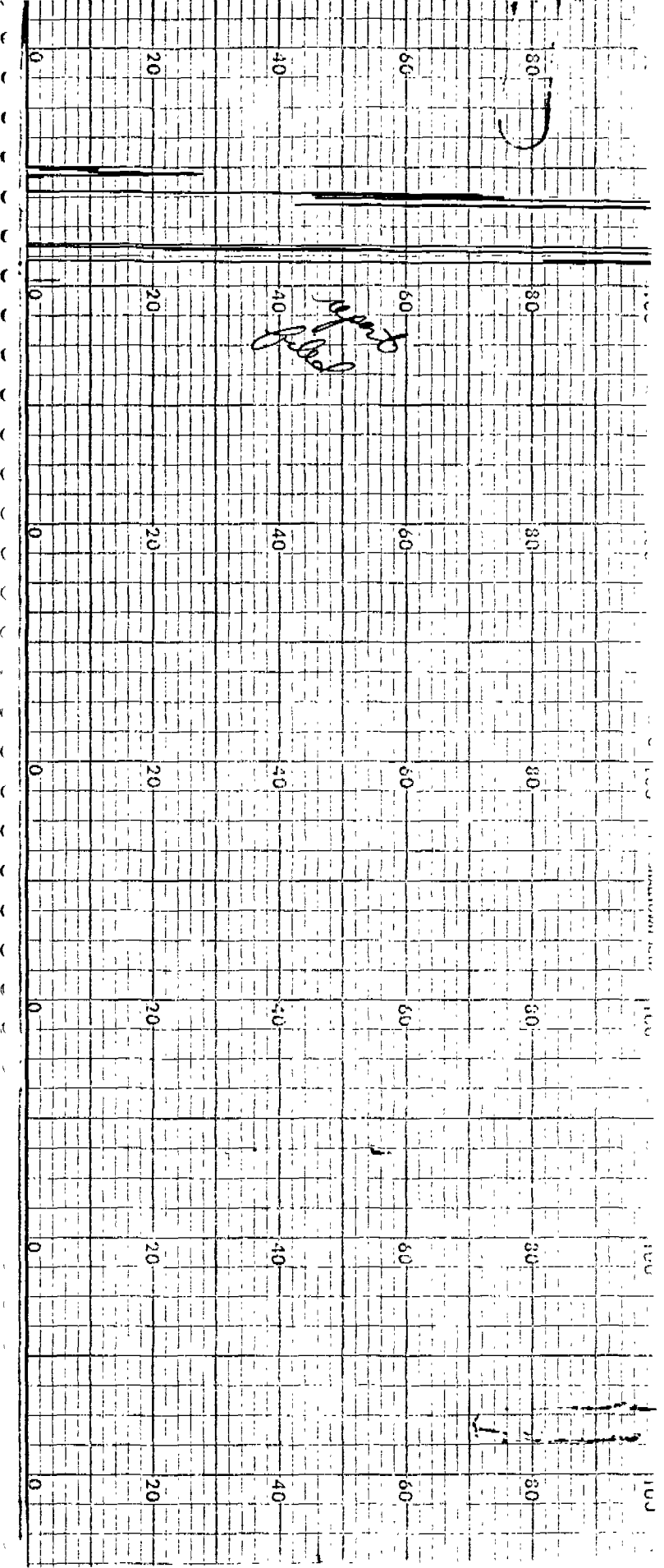
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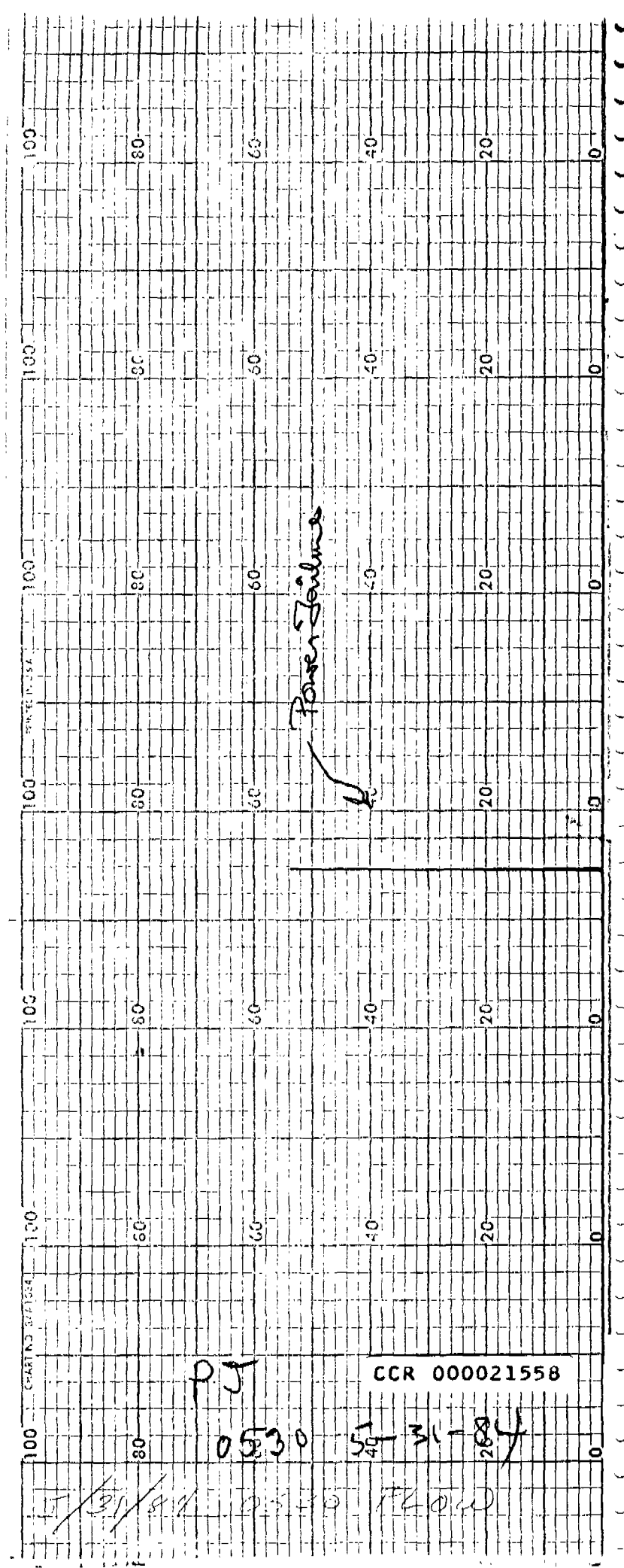
6-1-84

6/1/84

0530

Flow





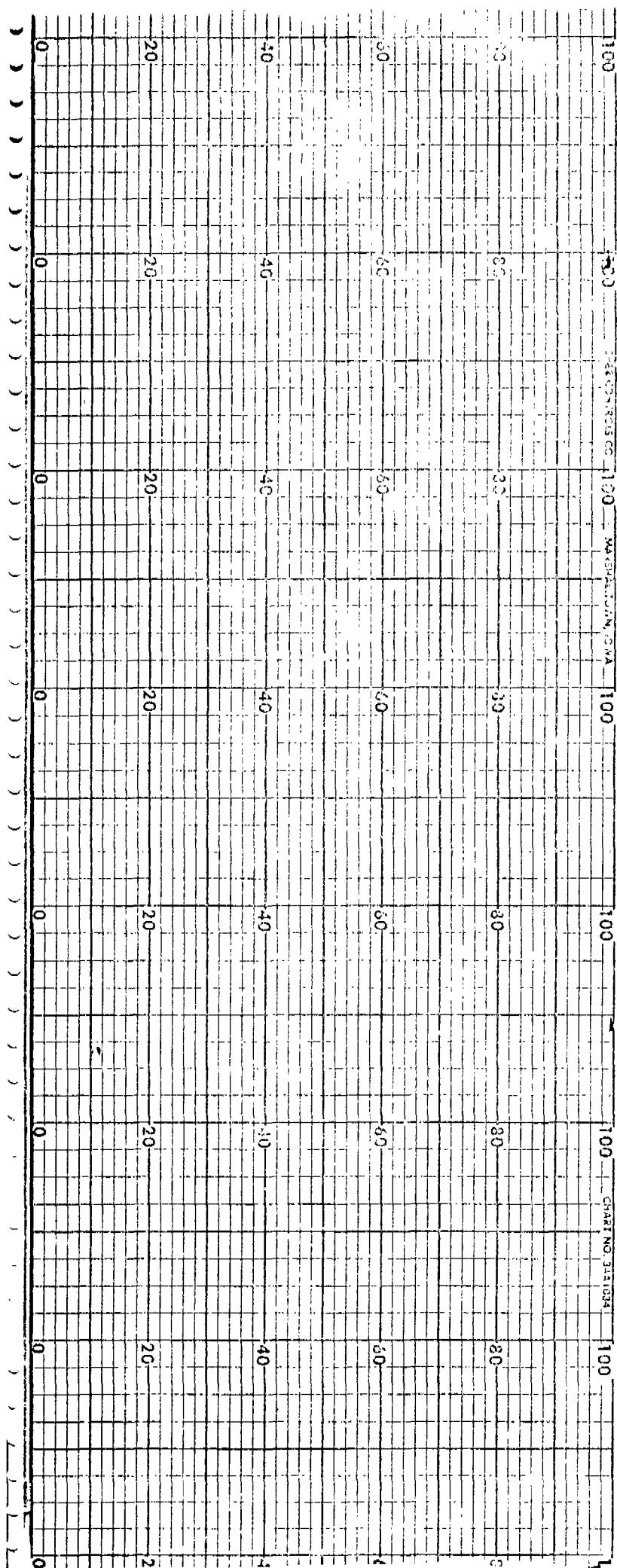
PJ

CCR 000021558

0530 5-31-84

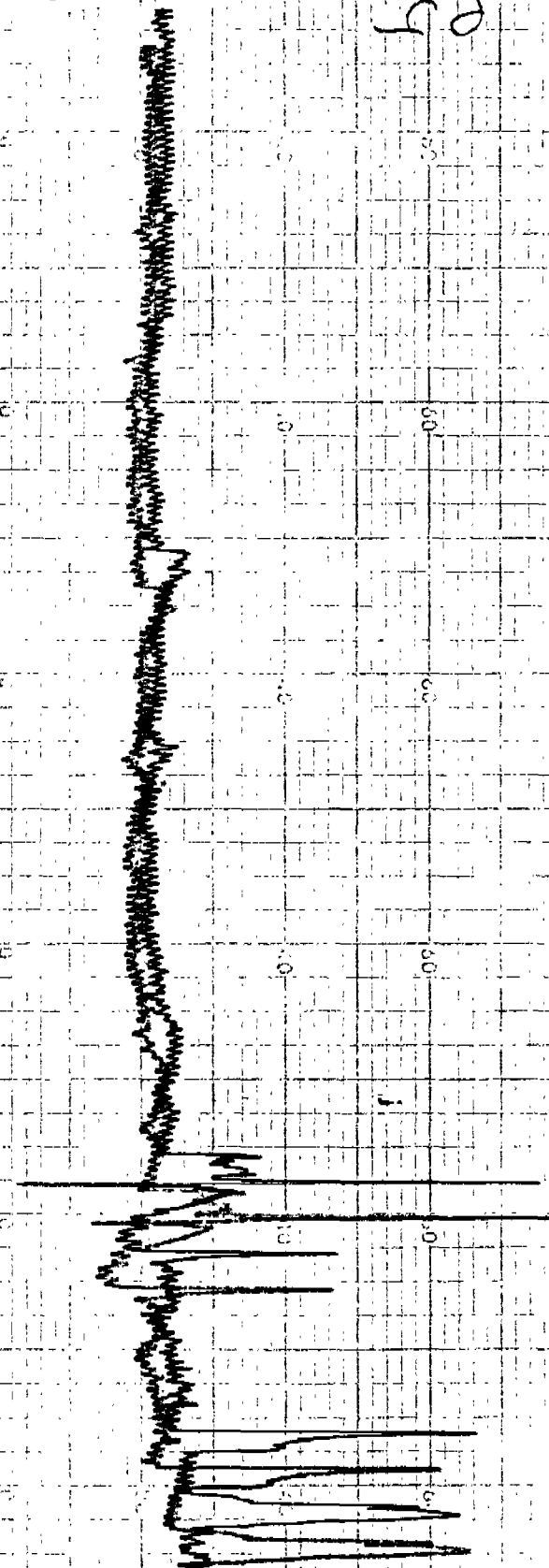
5/31/84 0530 FLOW

Power Failure



6/1/84 0530 PRESS
 0530
 6-1-84
 CCR 000021560

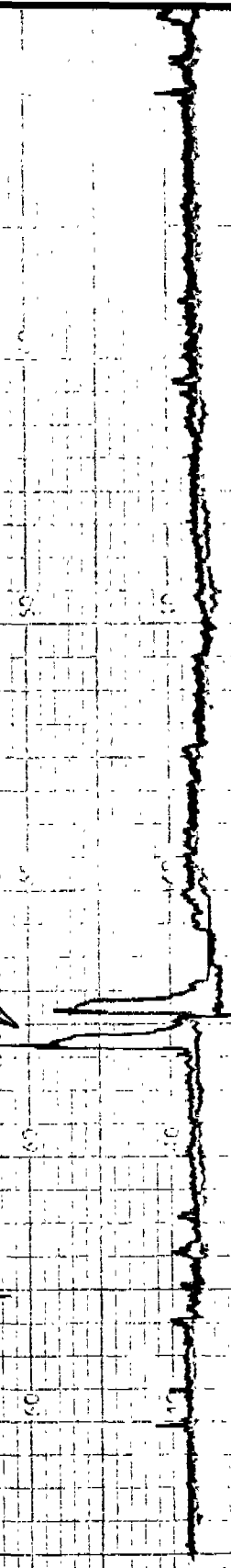
PJ

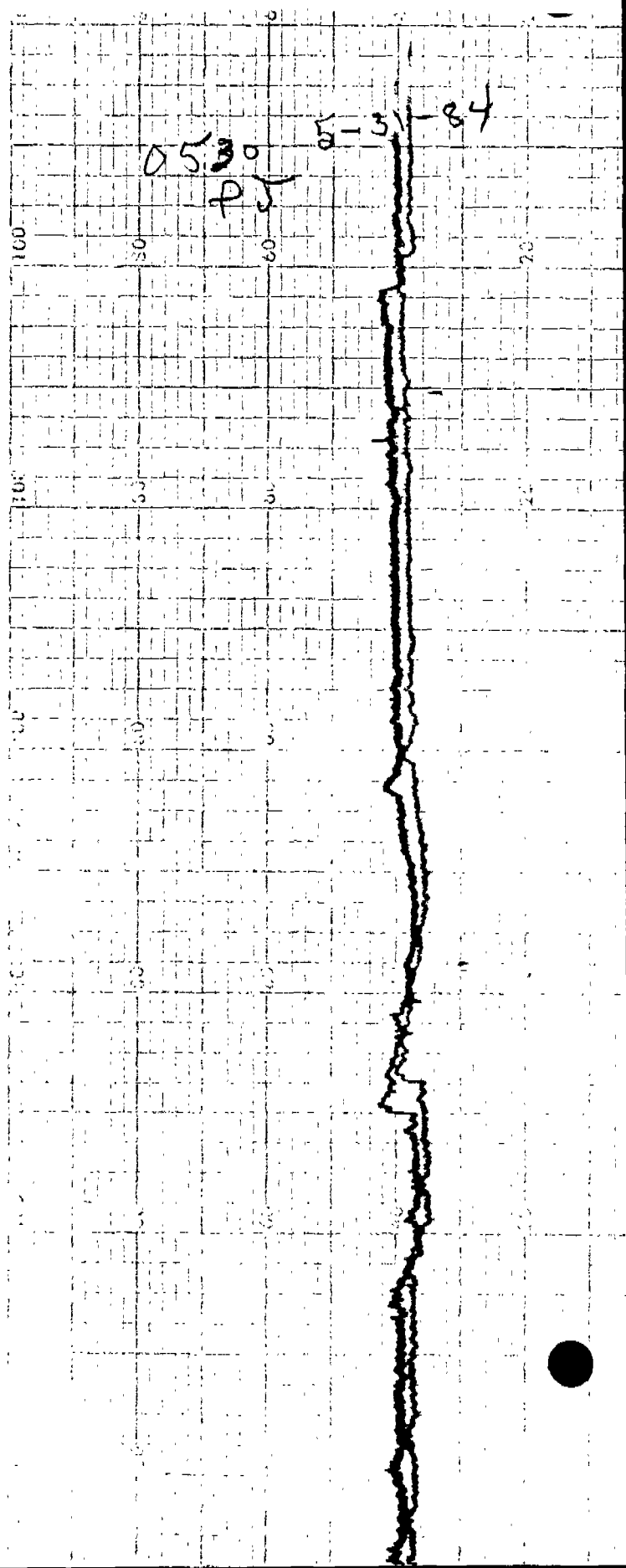
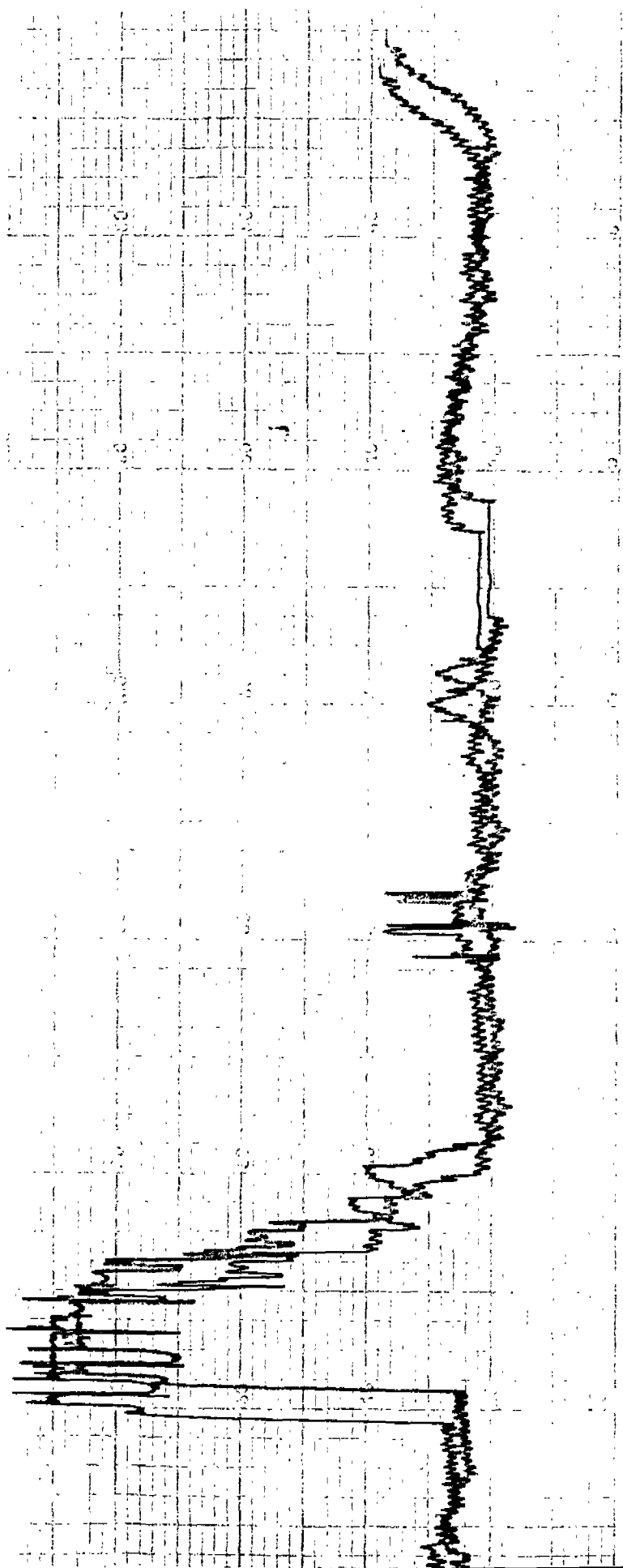


CCR 000021559

5-130-84 PJ
 0530
 6-1-84 0530 PRESS

PC Vent Drip
 100% O2





CCR 000021562

5-30-84

0534

PJ

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0 20 40 60 80

0 20 40 60 80

0 20 40 60 80

0 20 40 60 80

0 20 40 60 80

DE Nite
Bull pen
Leptich

CCR 000021561

0500
PJ

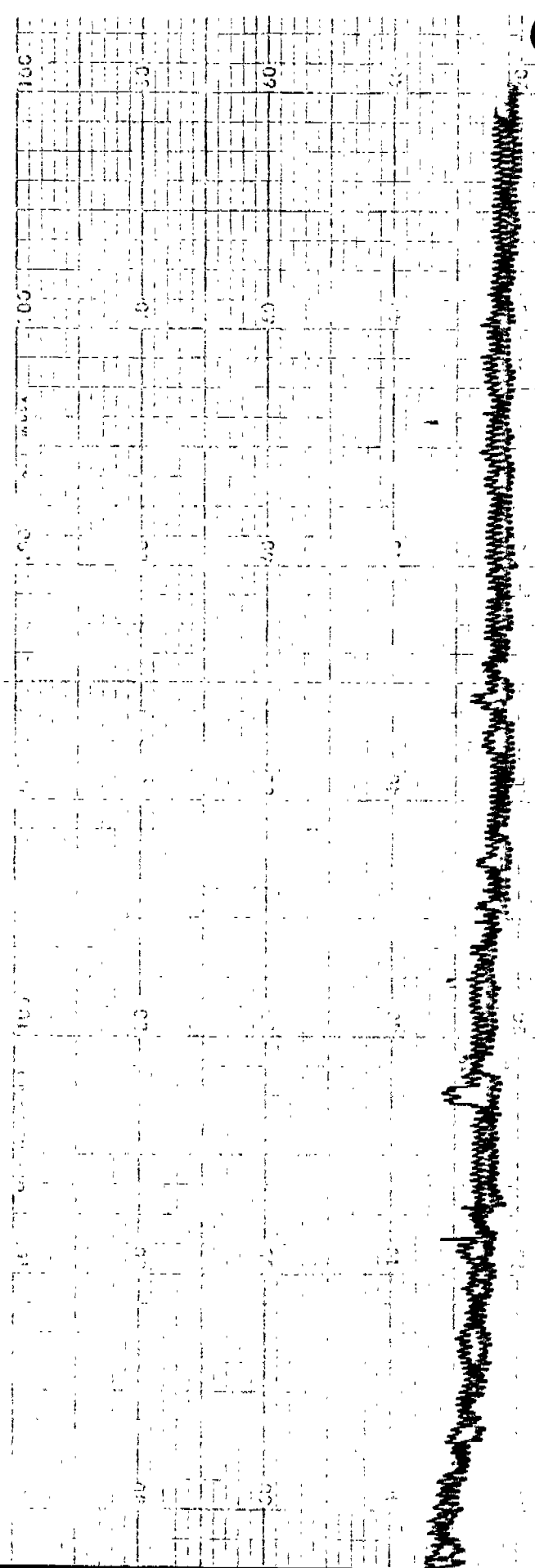
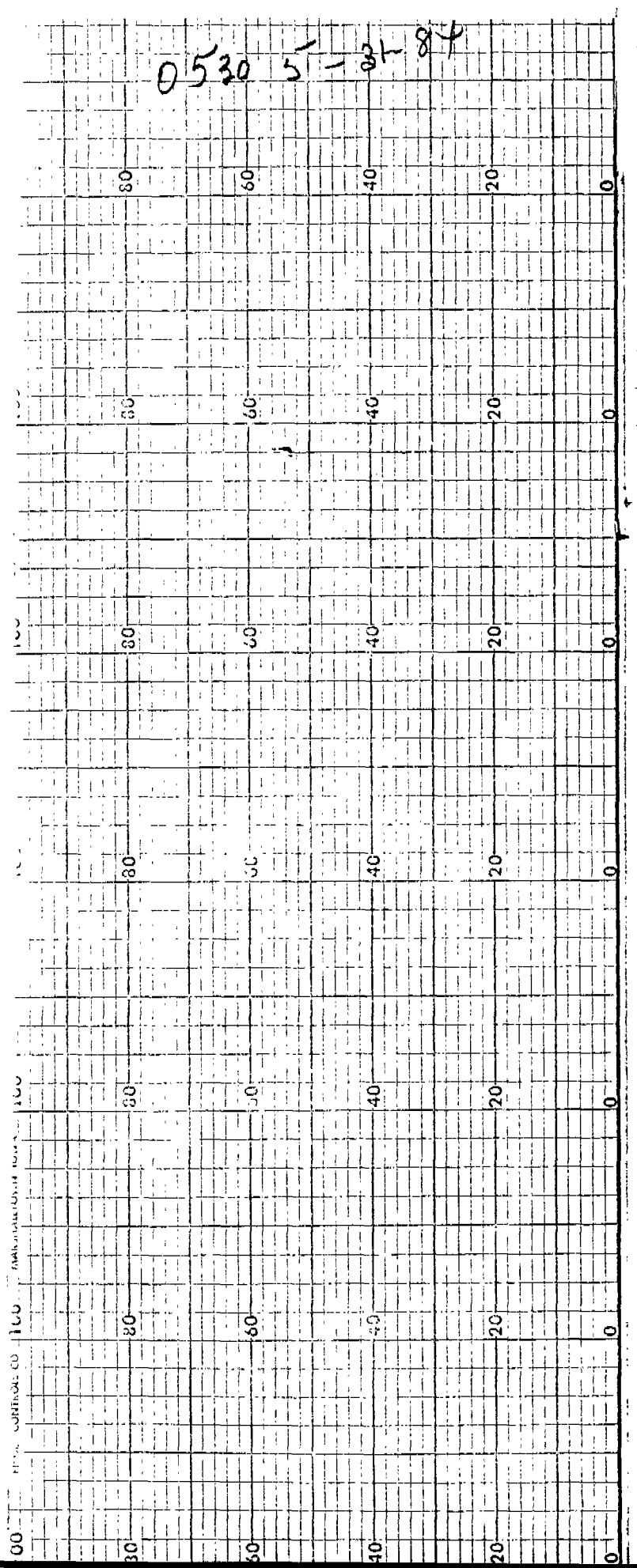
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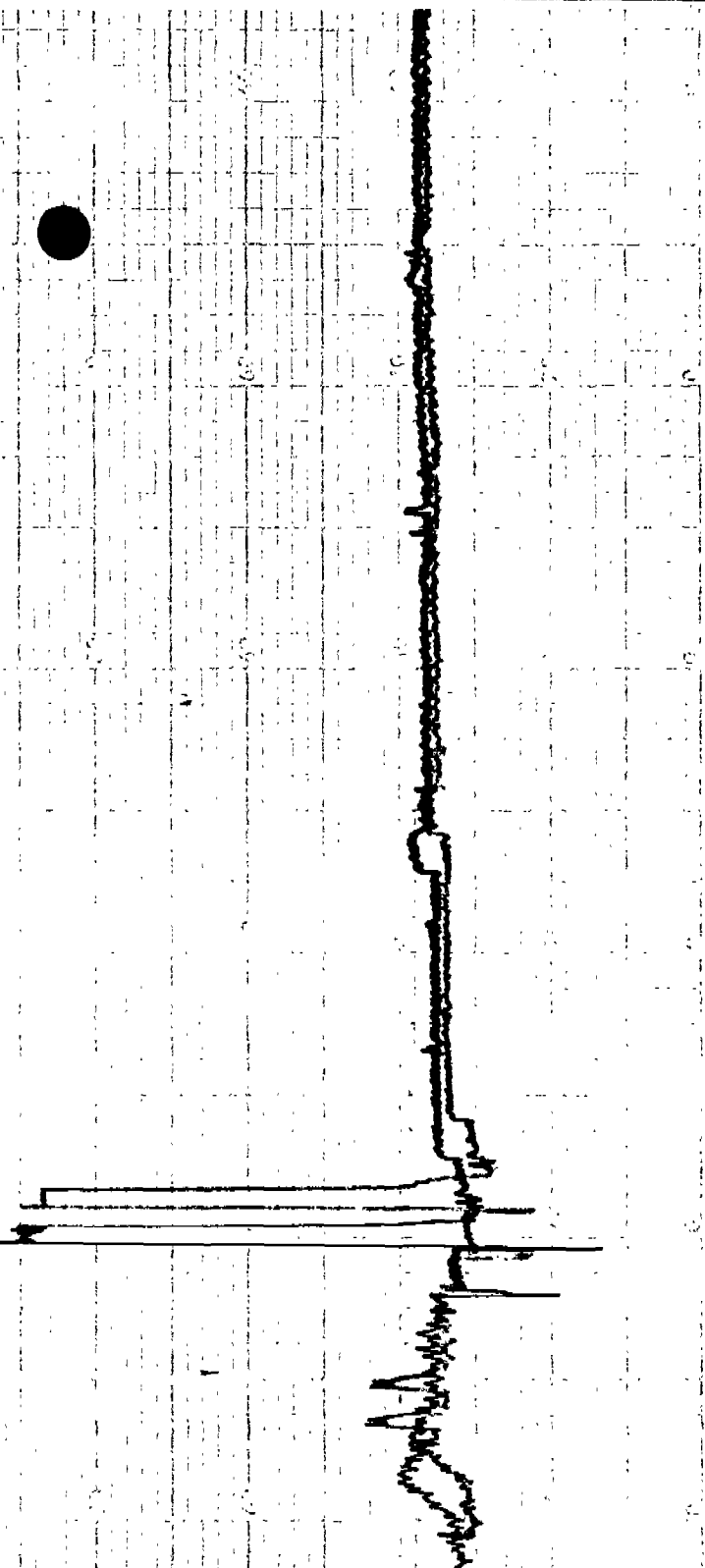
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00 100 200 300 400 500 600 700 800 900 1000

0530 5-31-84

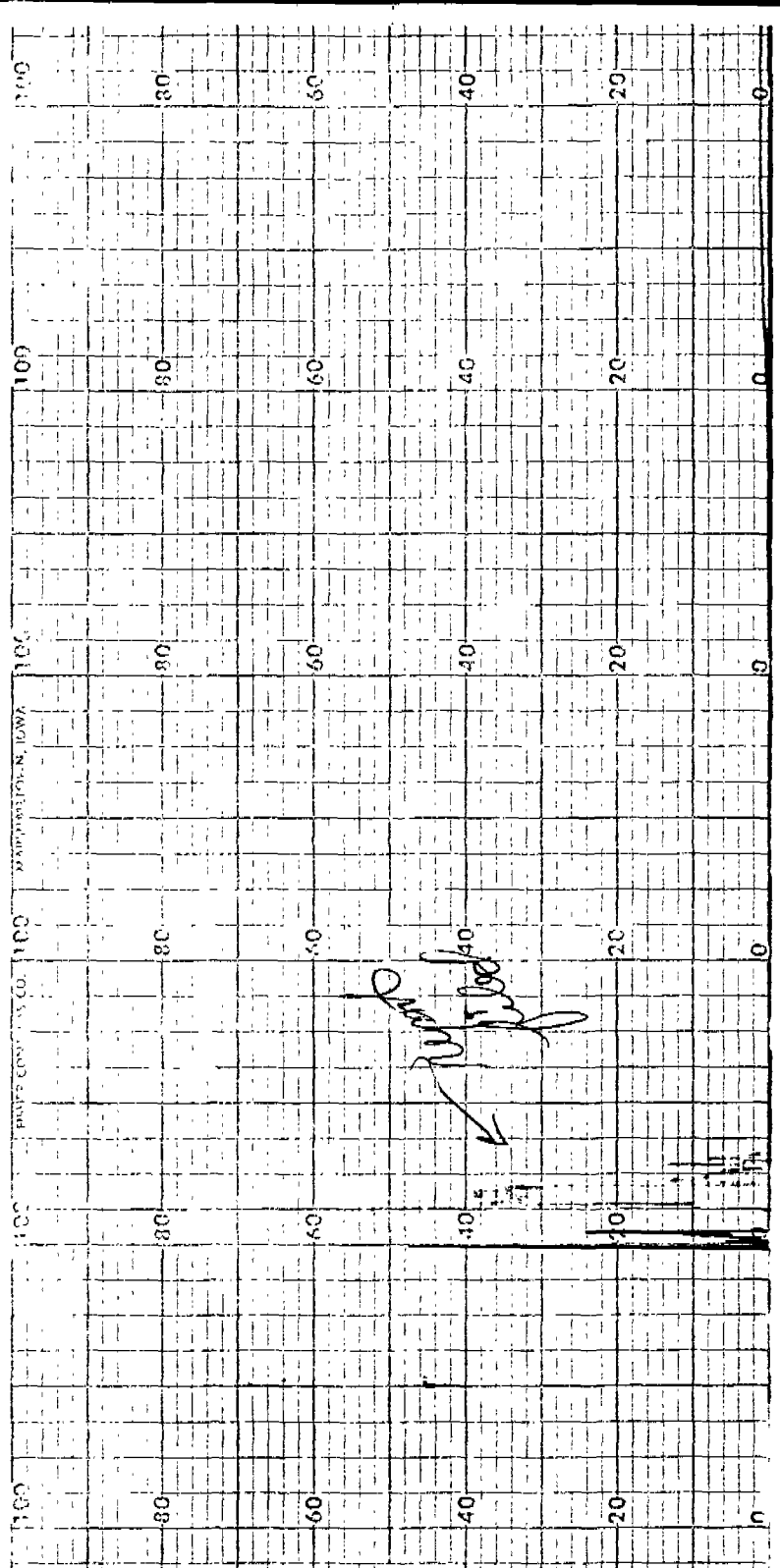




CCR 000021563

0530 5-28-84

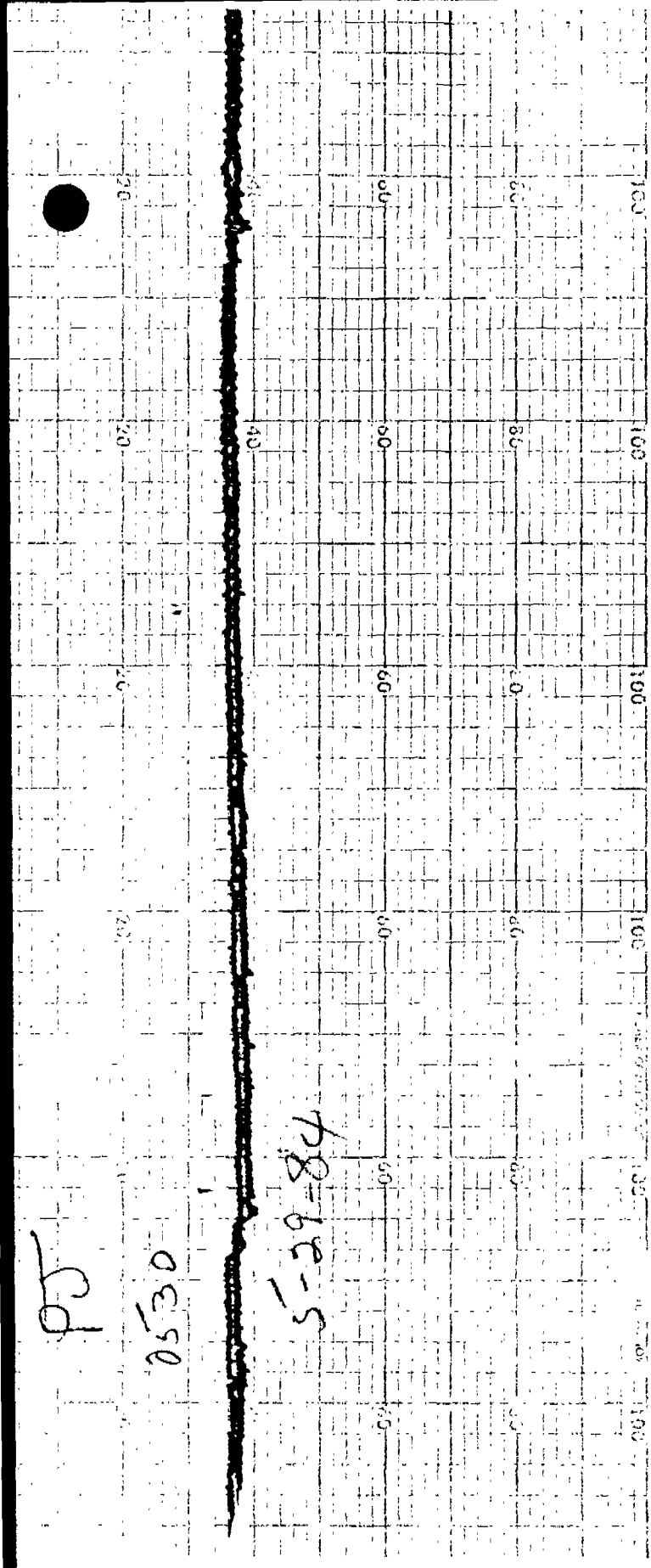
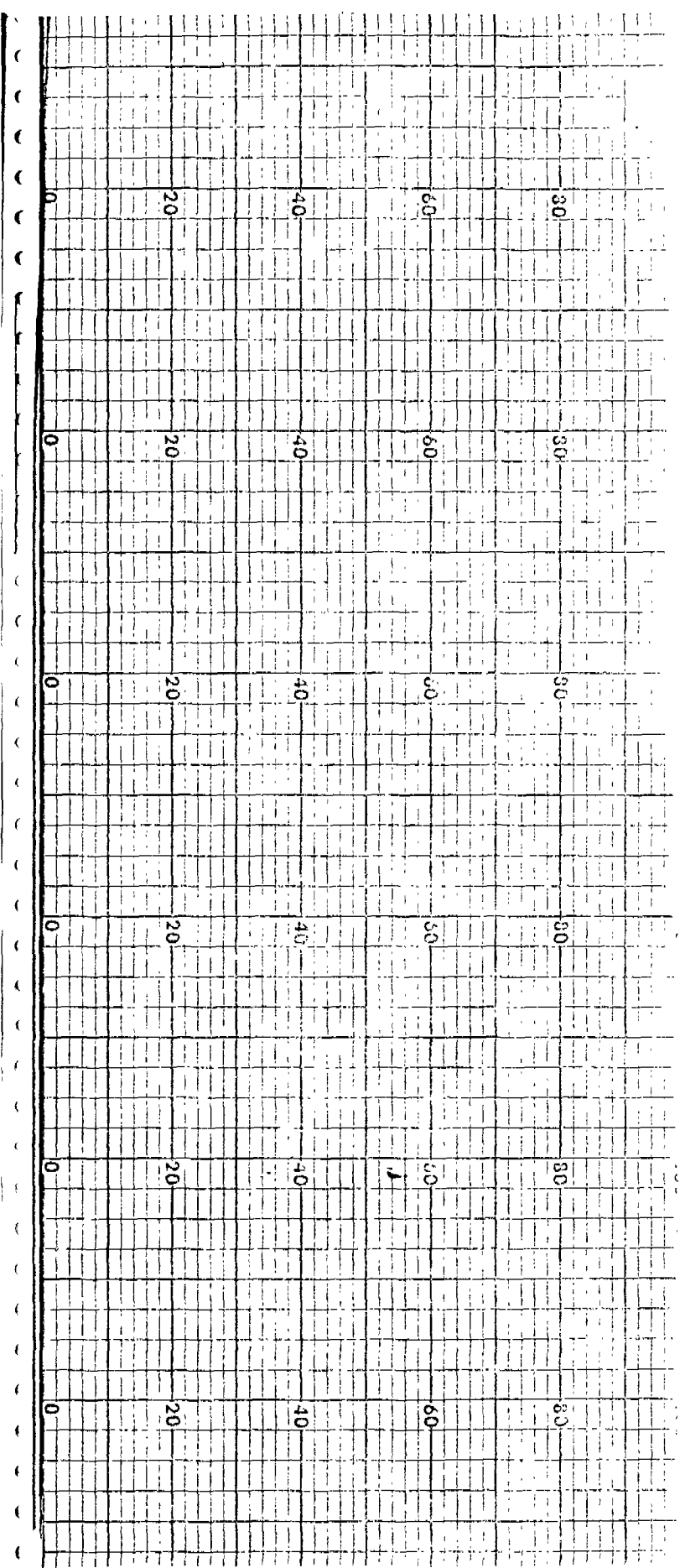
6/4/84 0530 PRESS



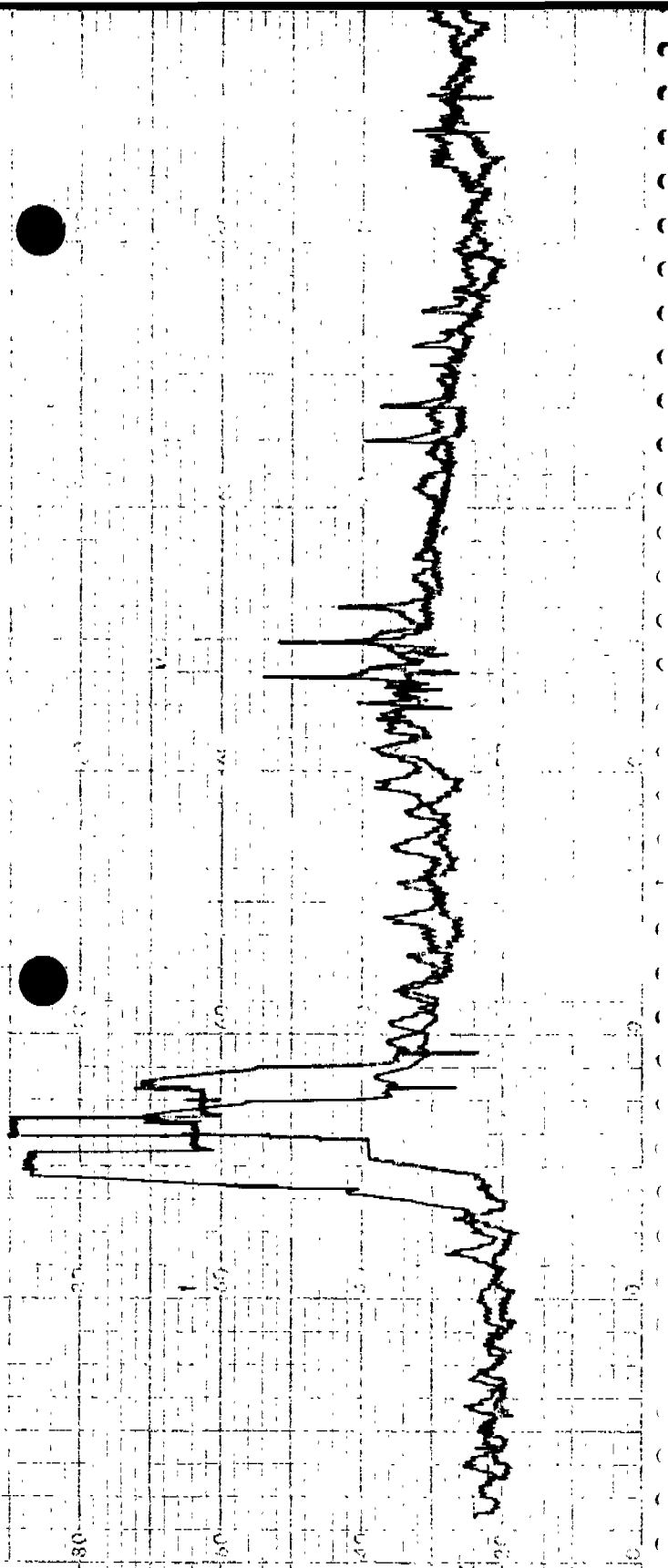
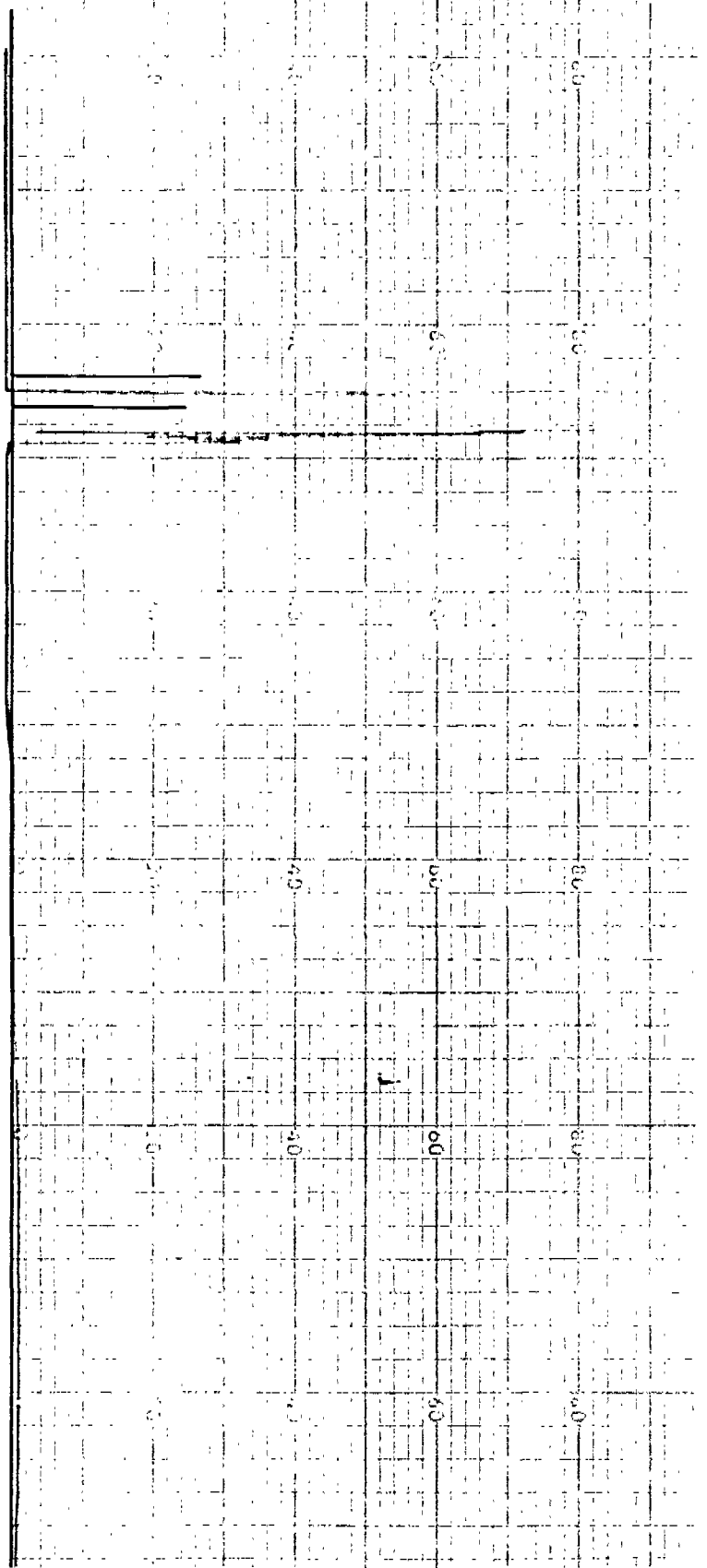
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0530 5-28-84

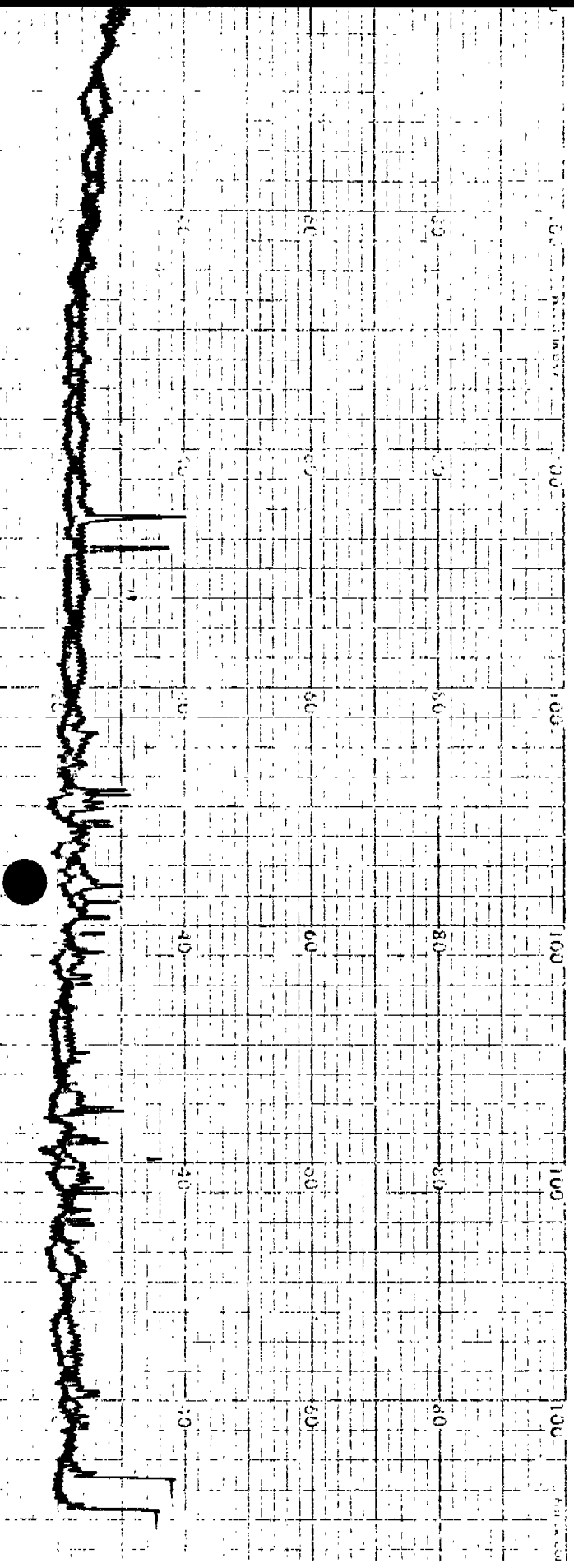
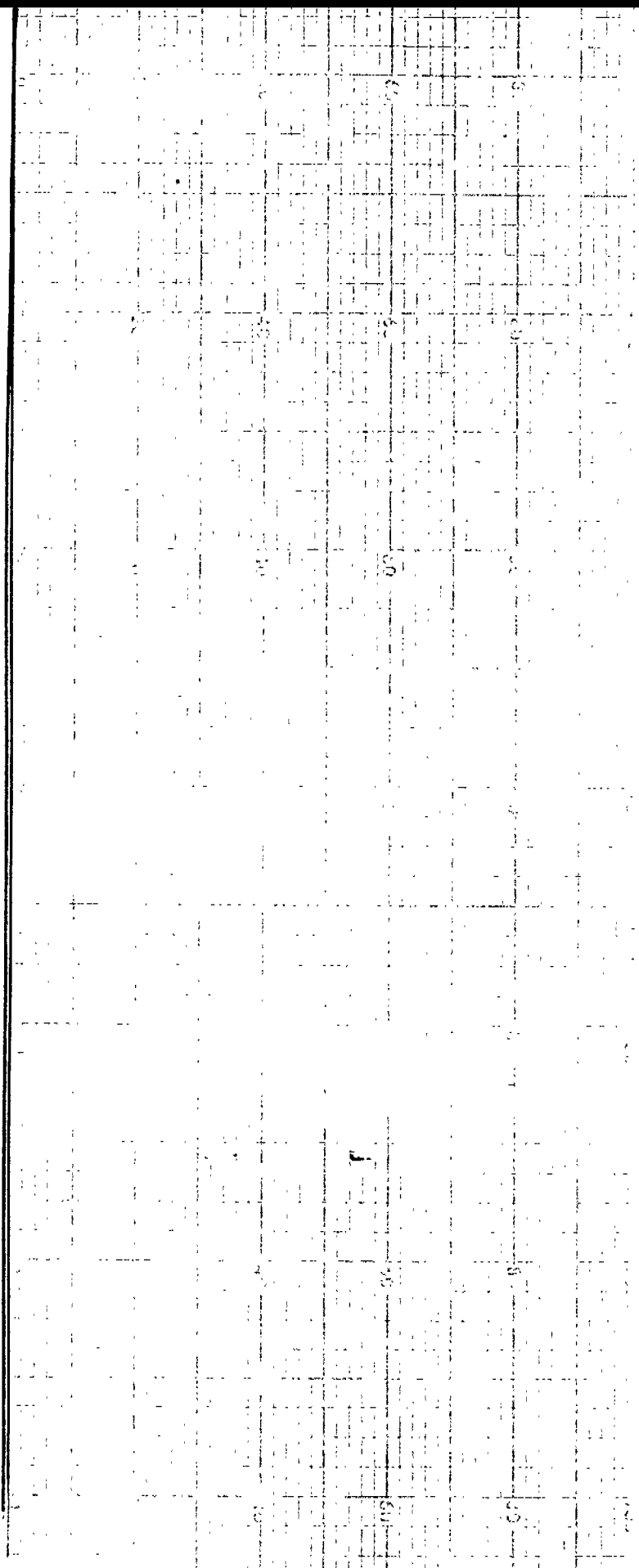
6/4/84 0530 FLOW



5/11/84 - 5/12/84 FLOID
0500
J-1-84
CCR 000021566



CCR 000021565
5/11/84 - 5/12/84 PRESS



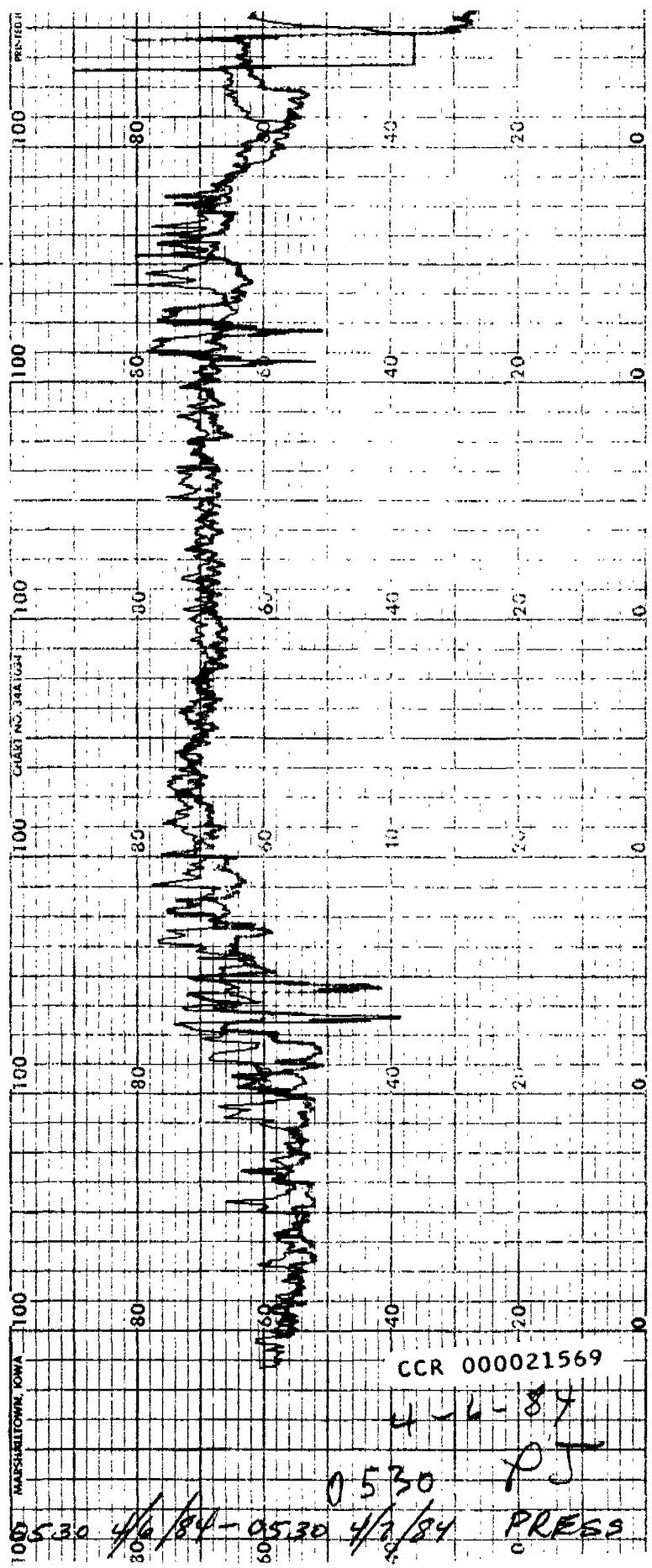
00 9/10/84 CCR 000021567

Handwritten notes and markings on the left page, including a vertical line of text and various scribbles.

1500 9/10/84 P L A W

CCR 000021568

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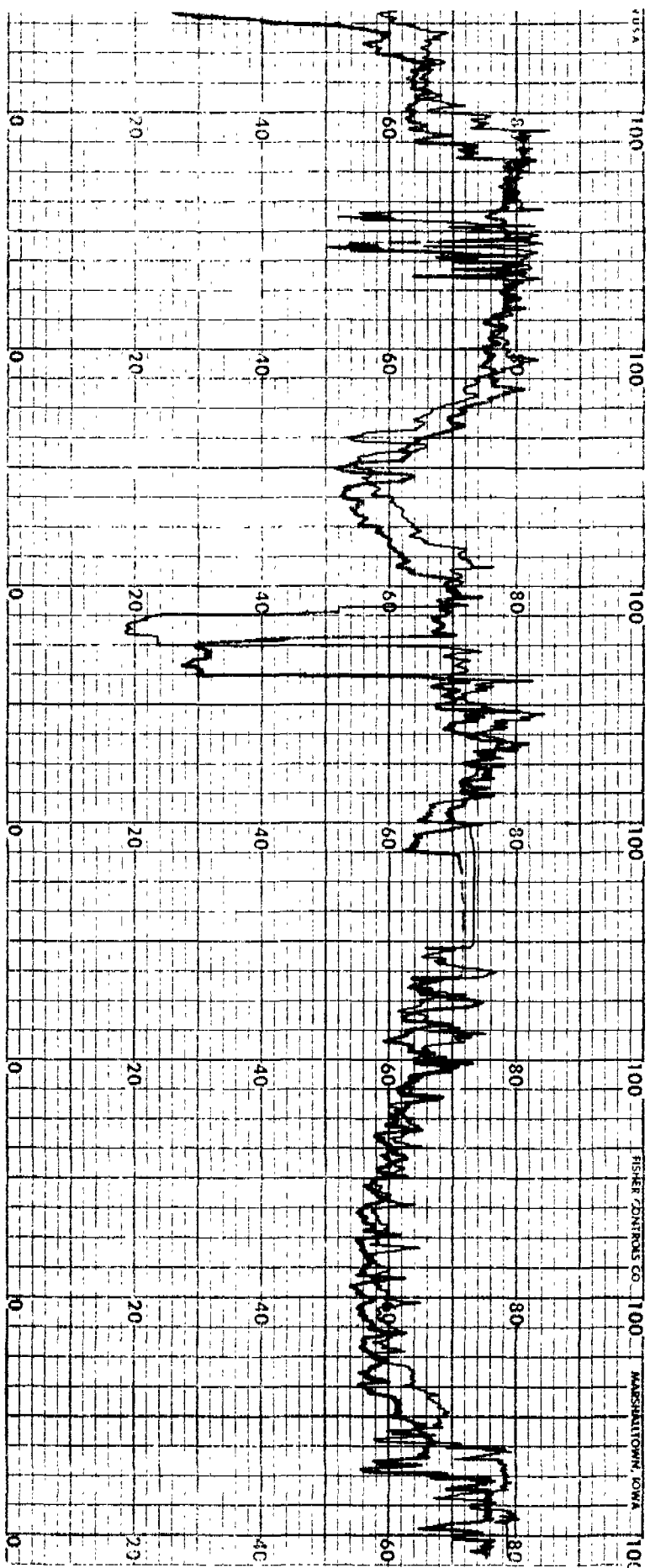
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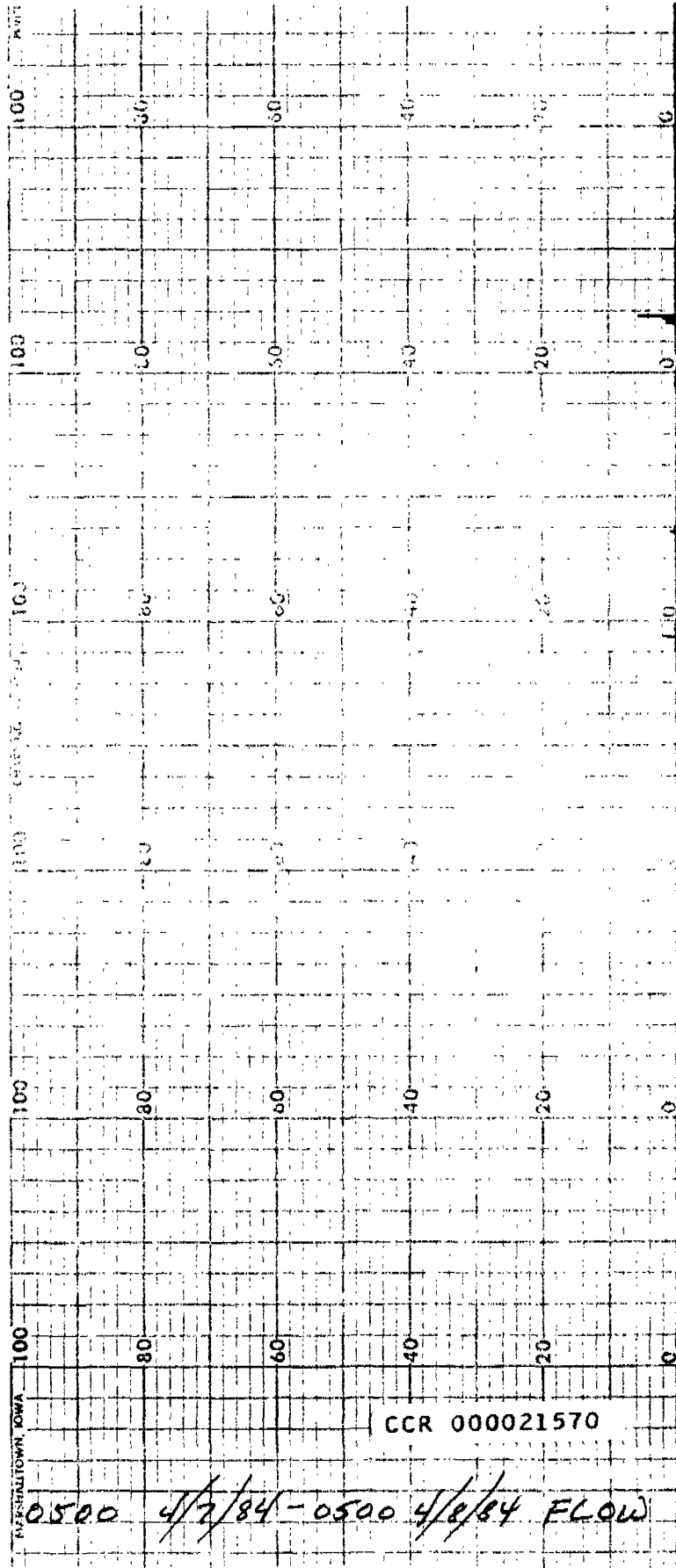
4-6-84

PJ

0530

0530 4/6/84 - 0530 4/2/84 PRESS

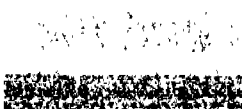
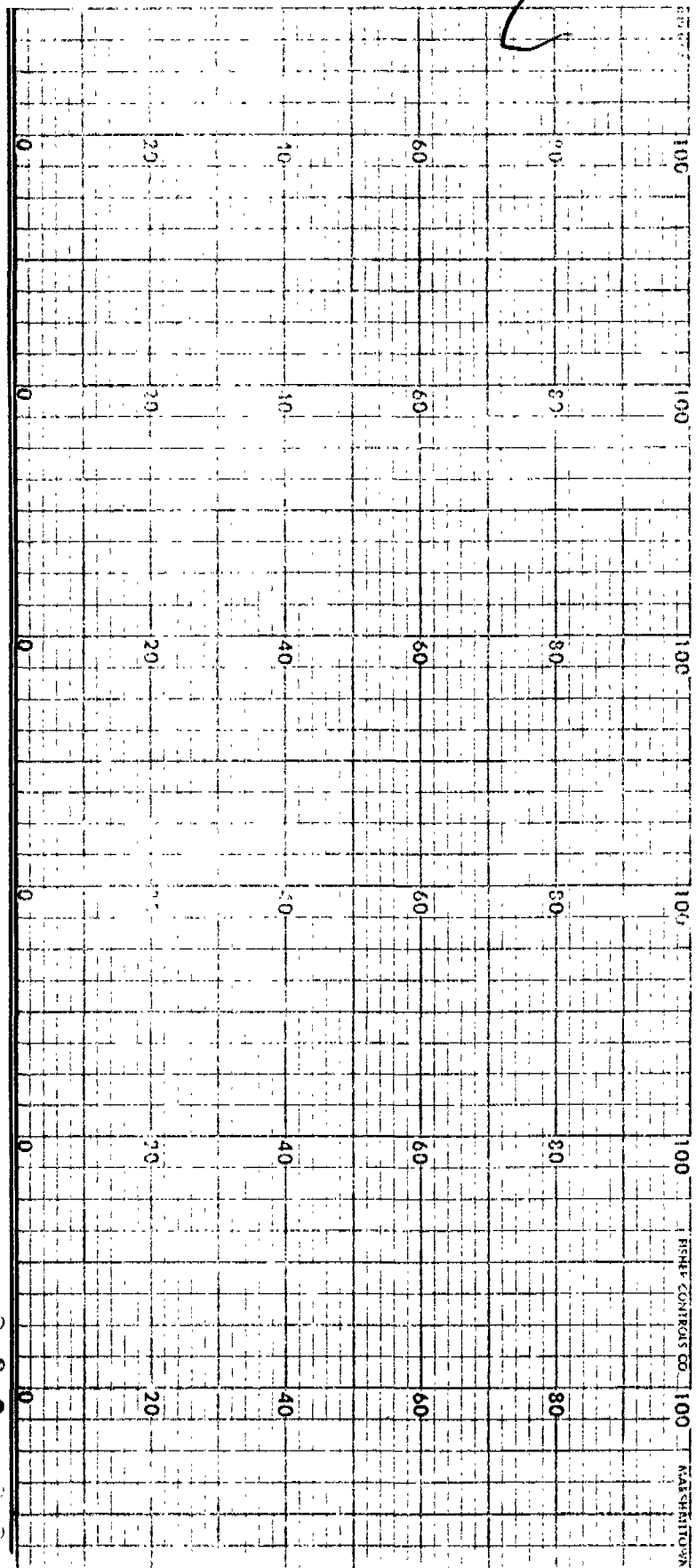


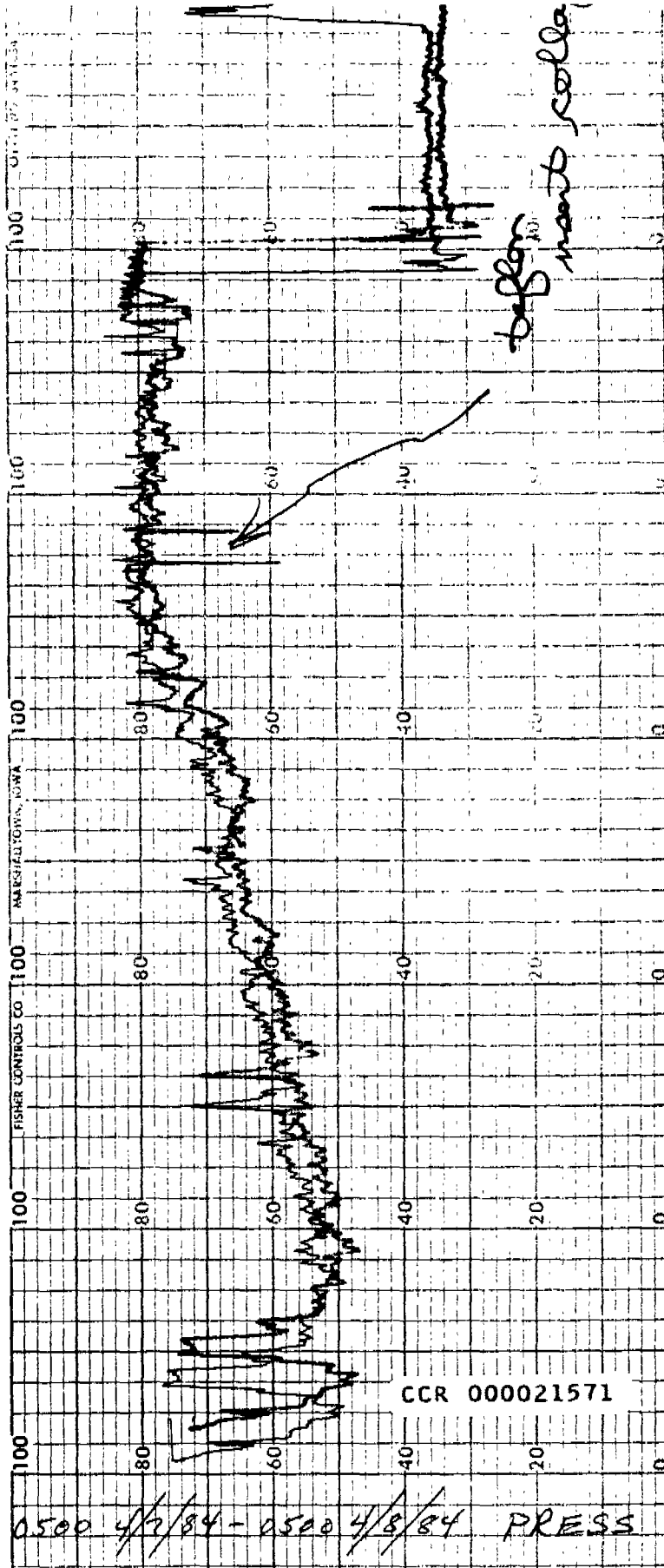


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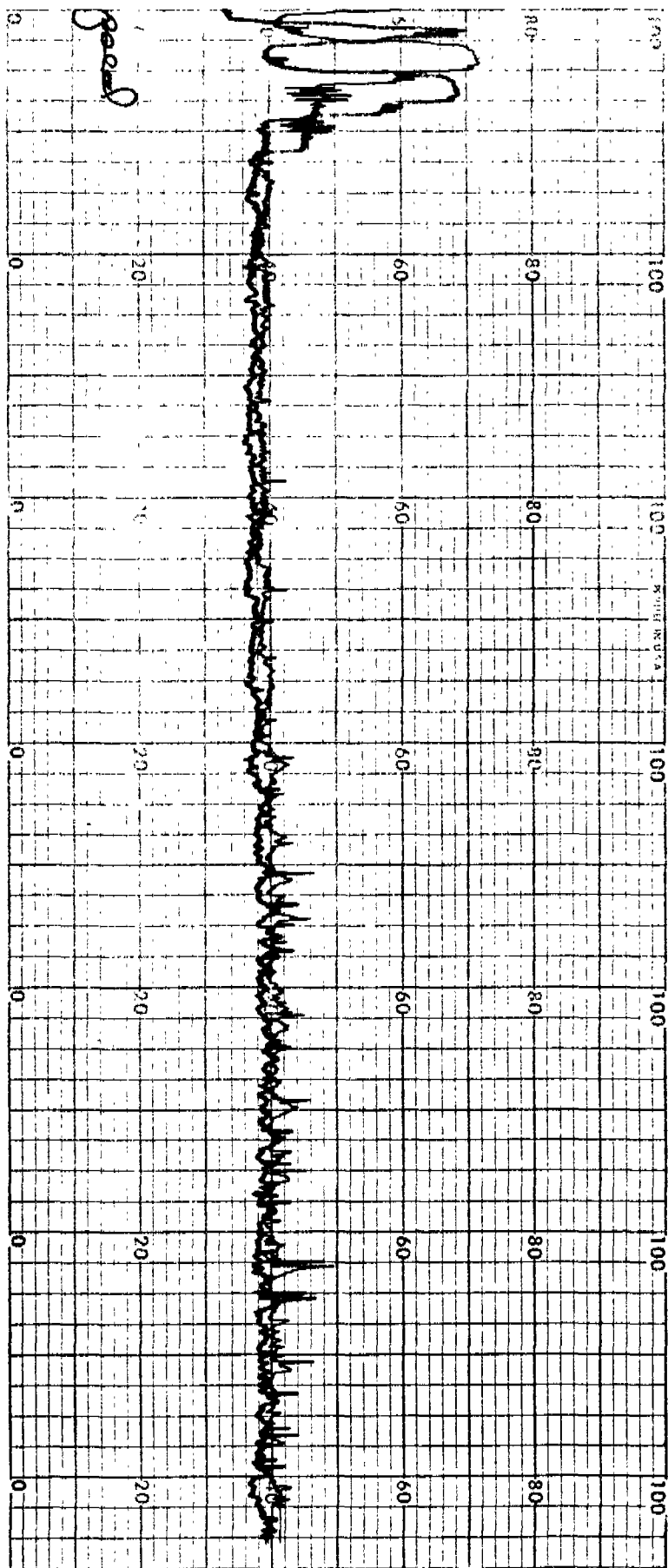
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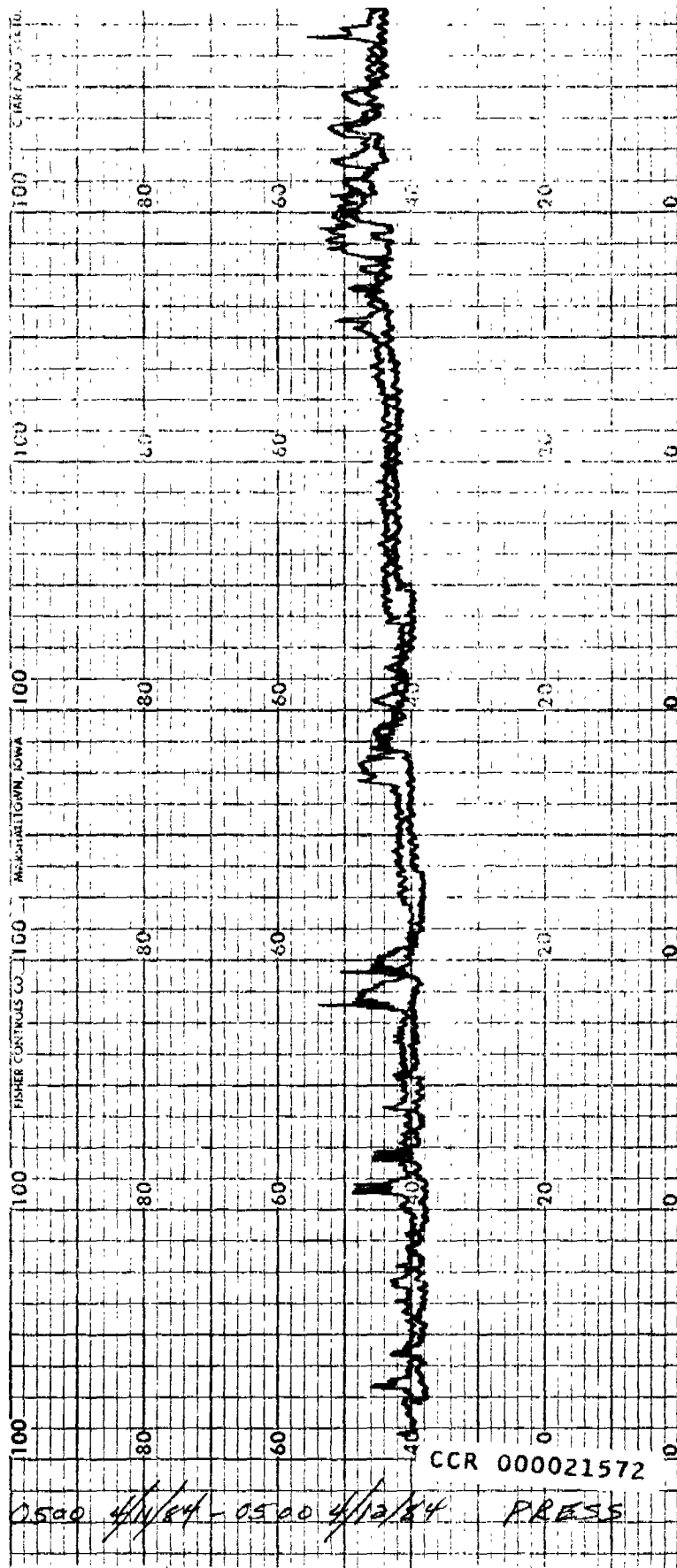
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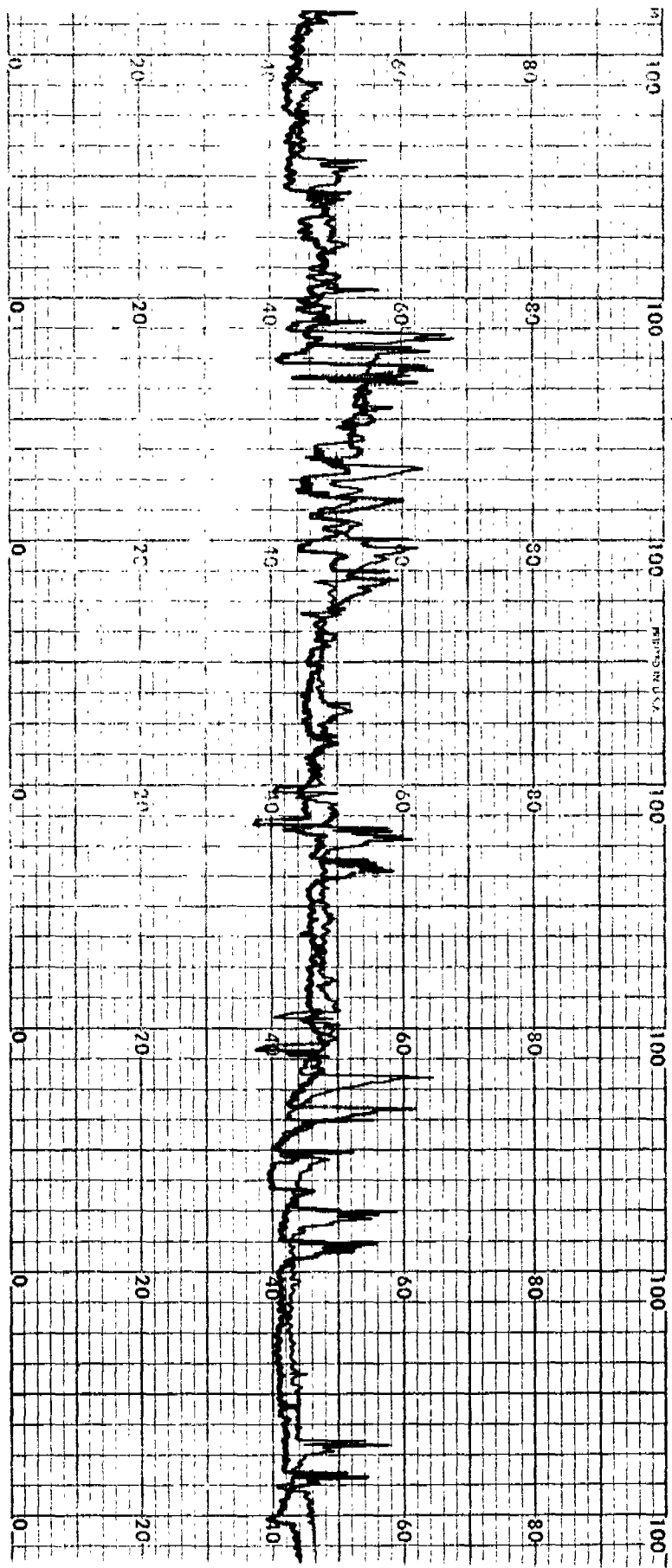
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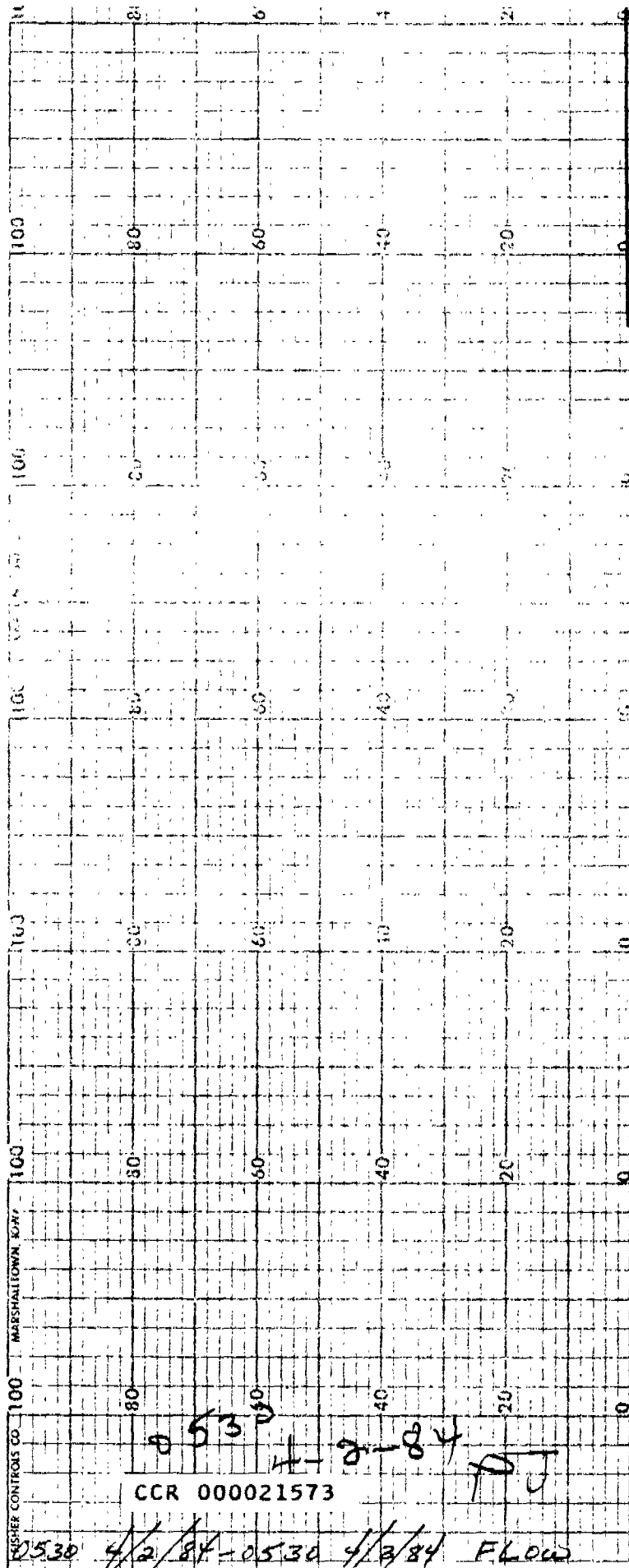




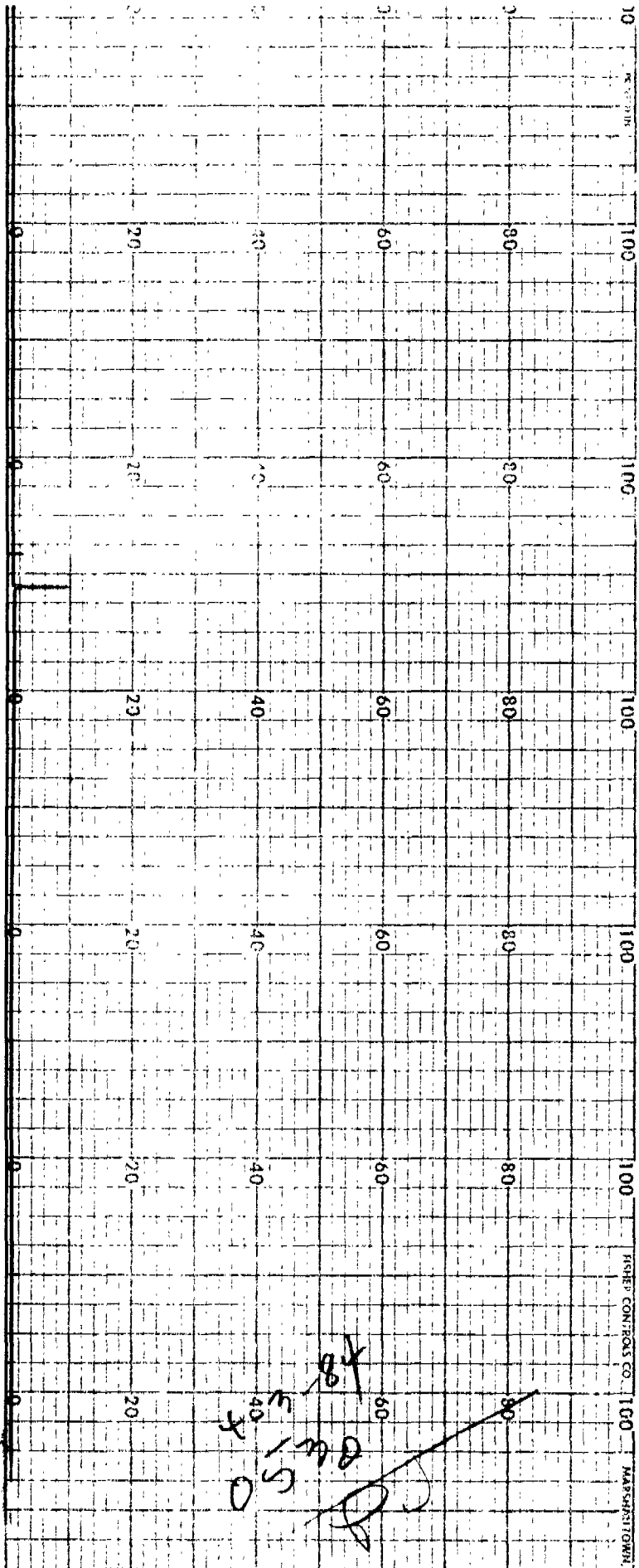
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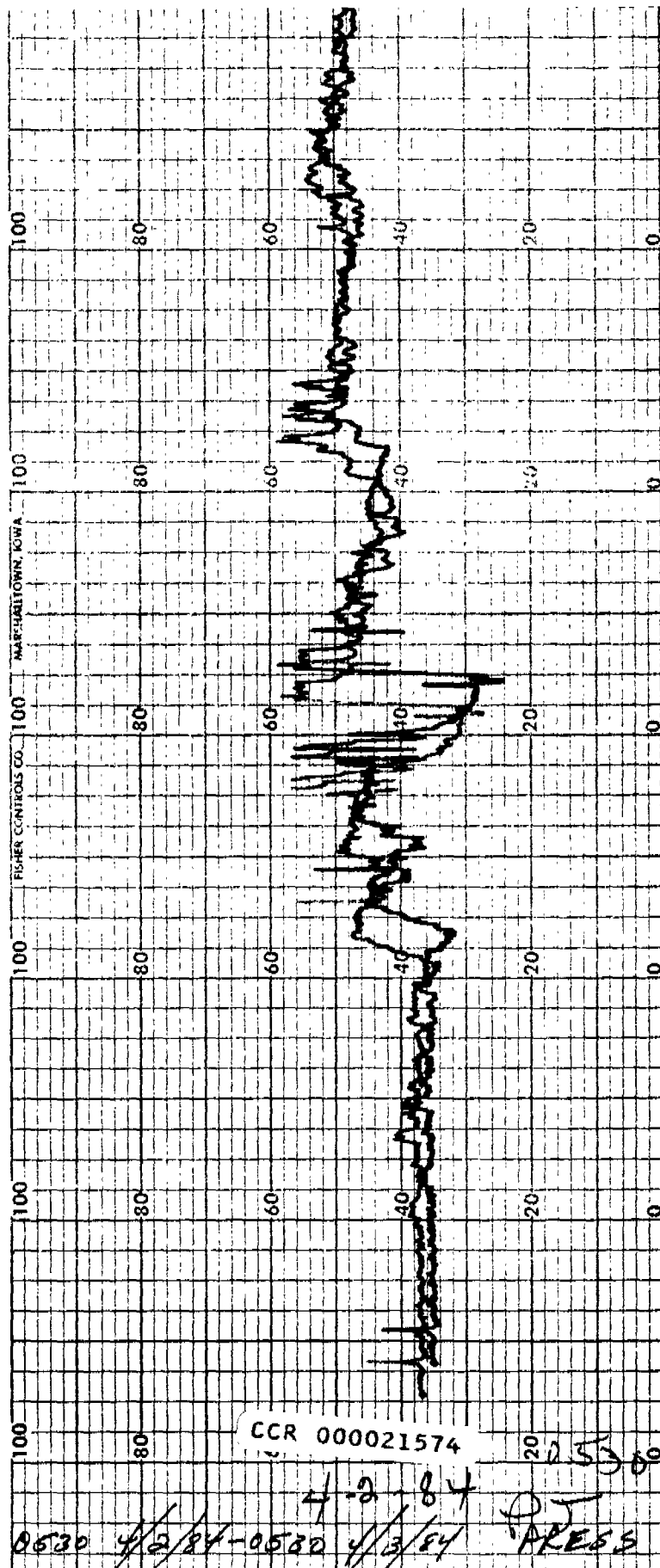
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0530 4/2/84-0530 4/3/84 FLOW



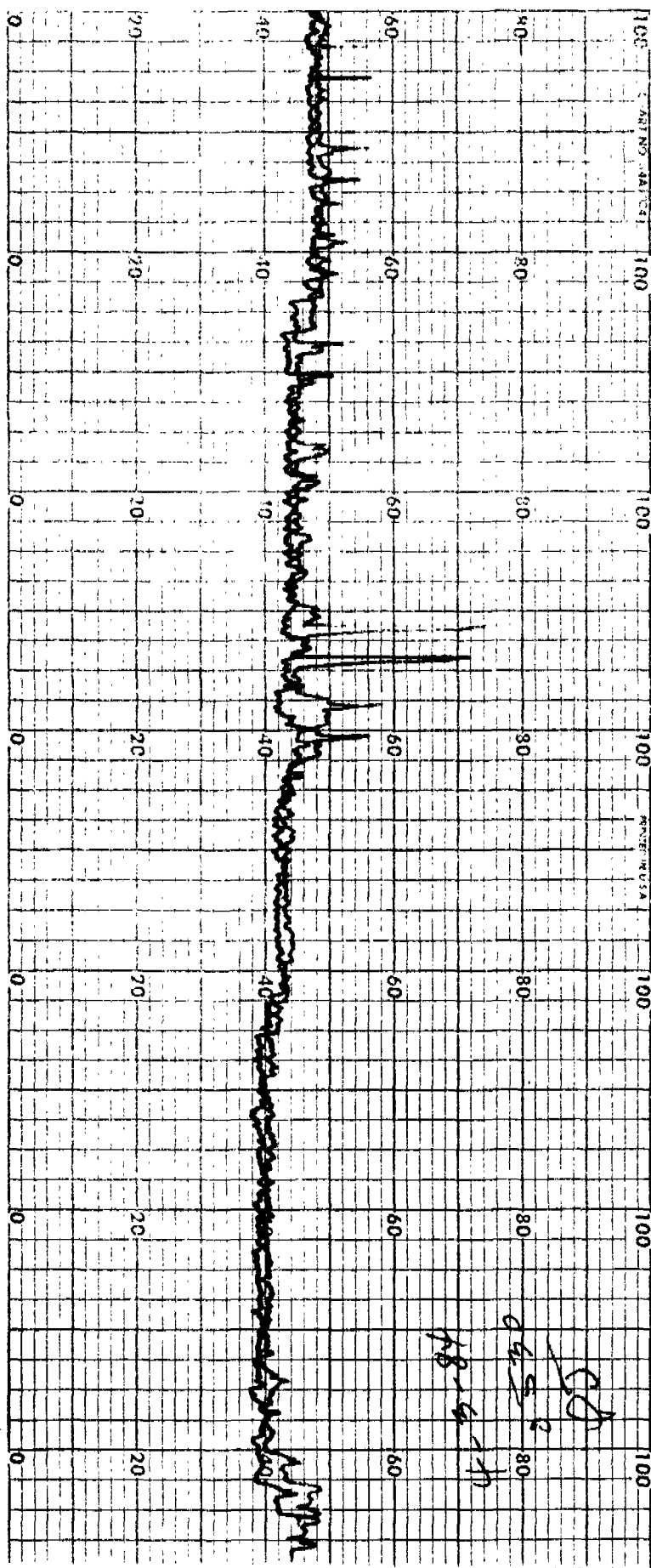


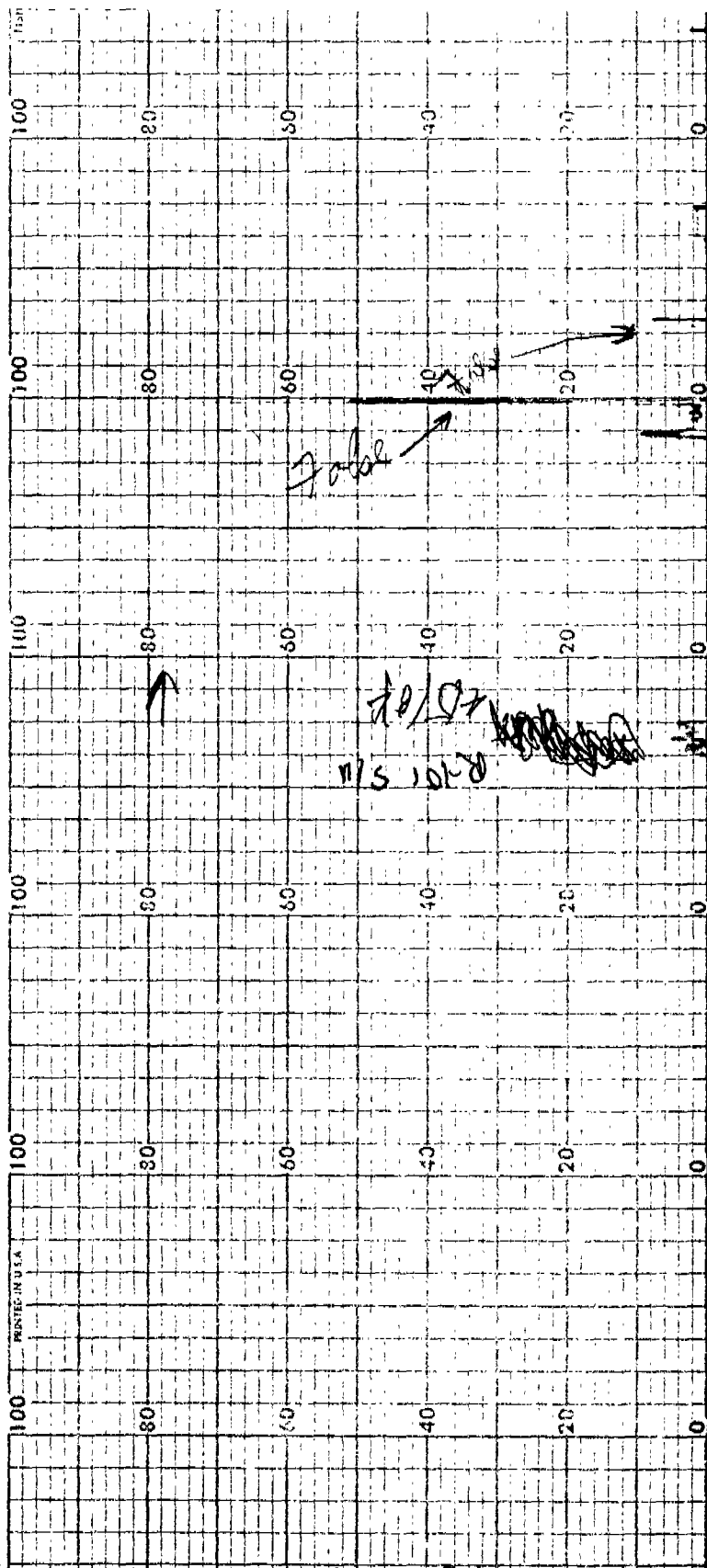
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0530 4/2/84-0530 4/3/84

PRESS



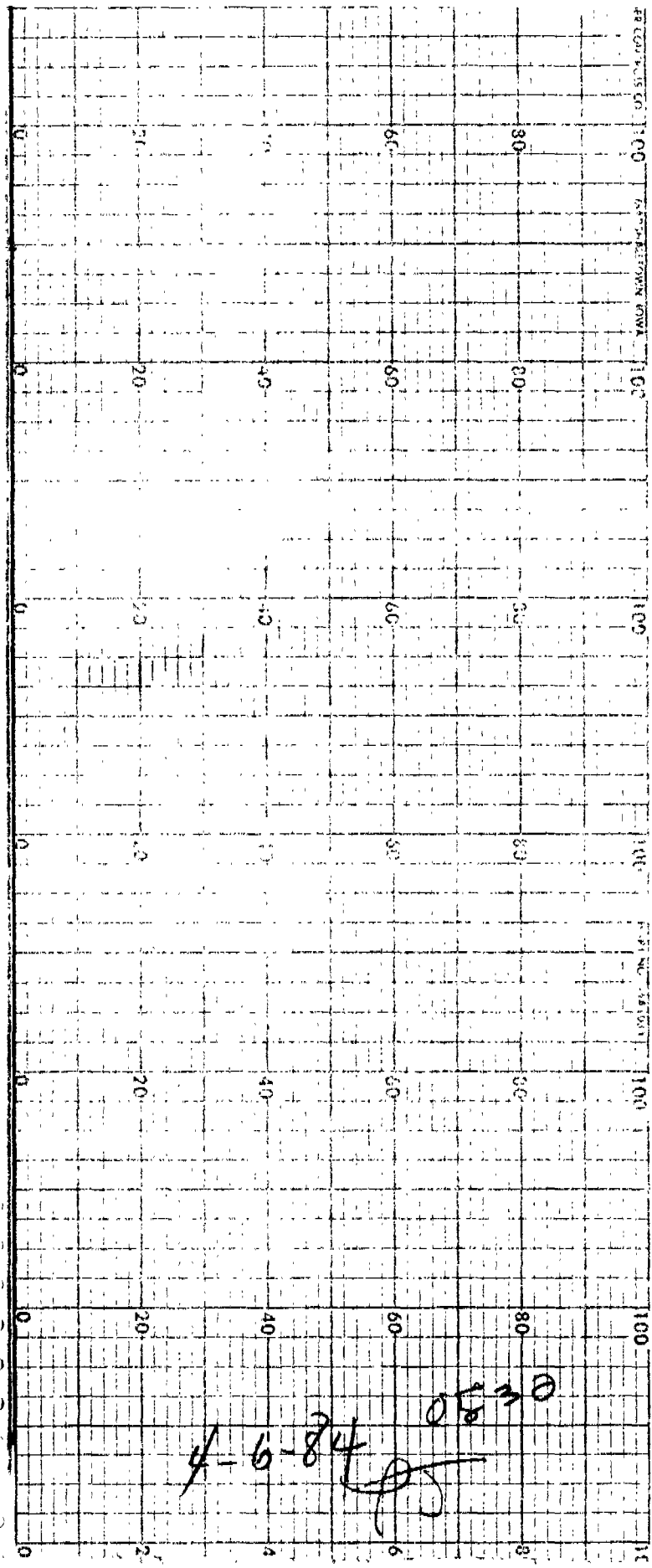


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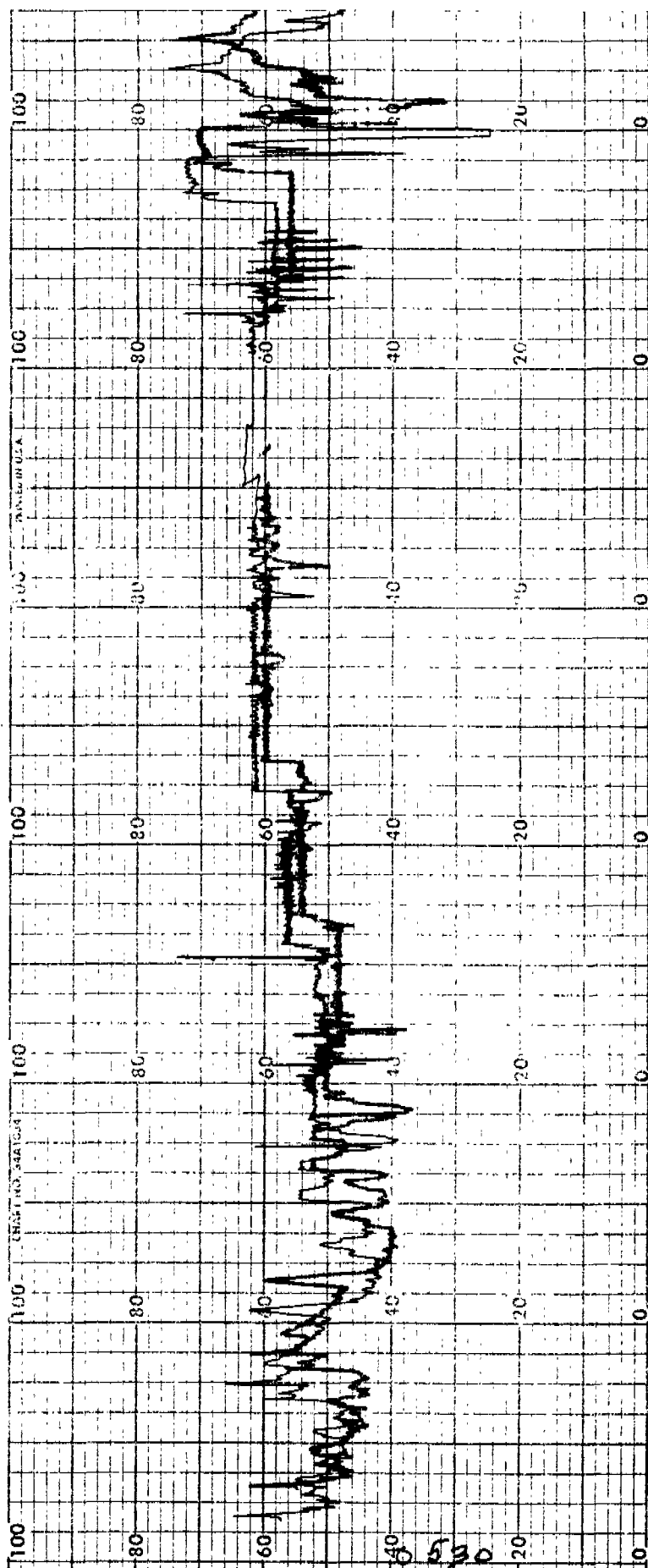
4-5-84

0530

4/5/84 0530 - 4/6/84 0530 FLOW



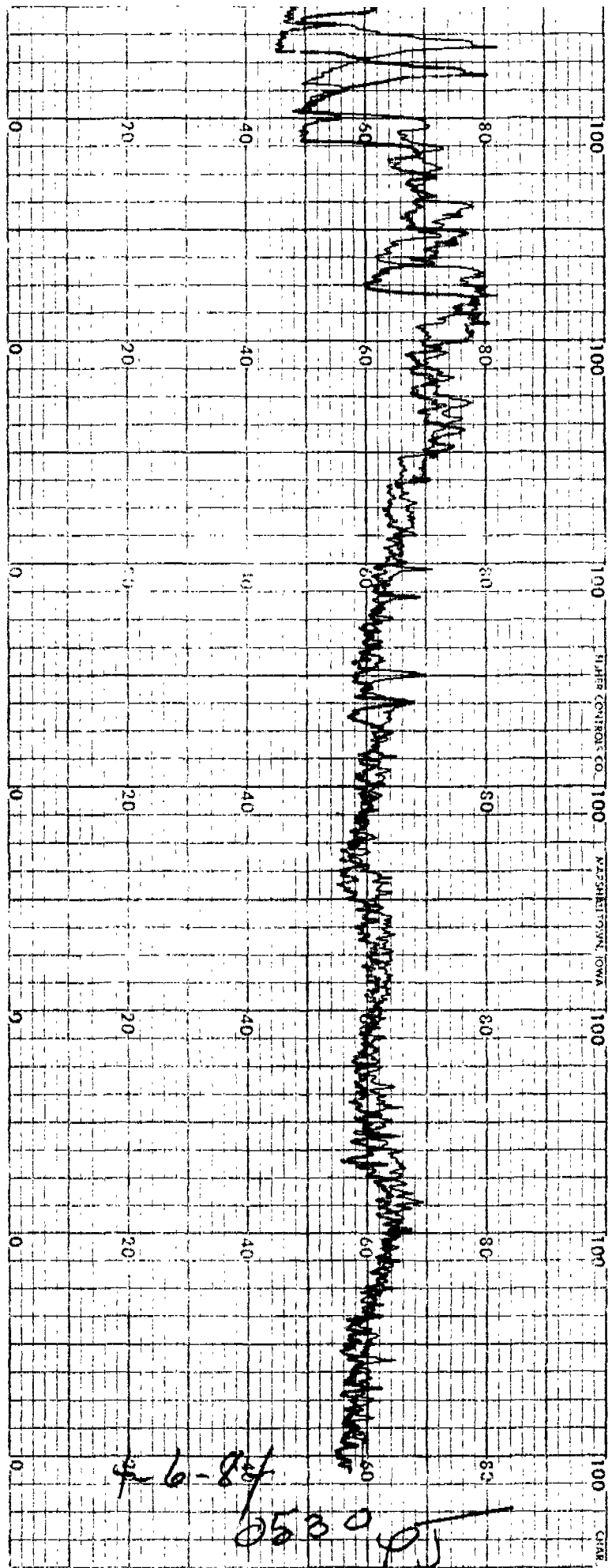
4-6-84 0530



CCR 000021576

4-5-84

4/5/84 0530 - 4/6/84 0530 PRESS



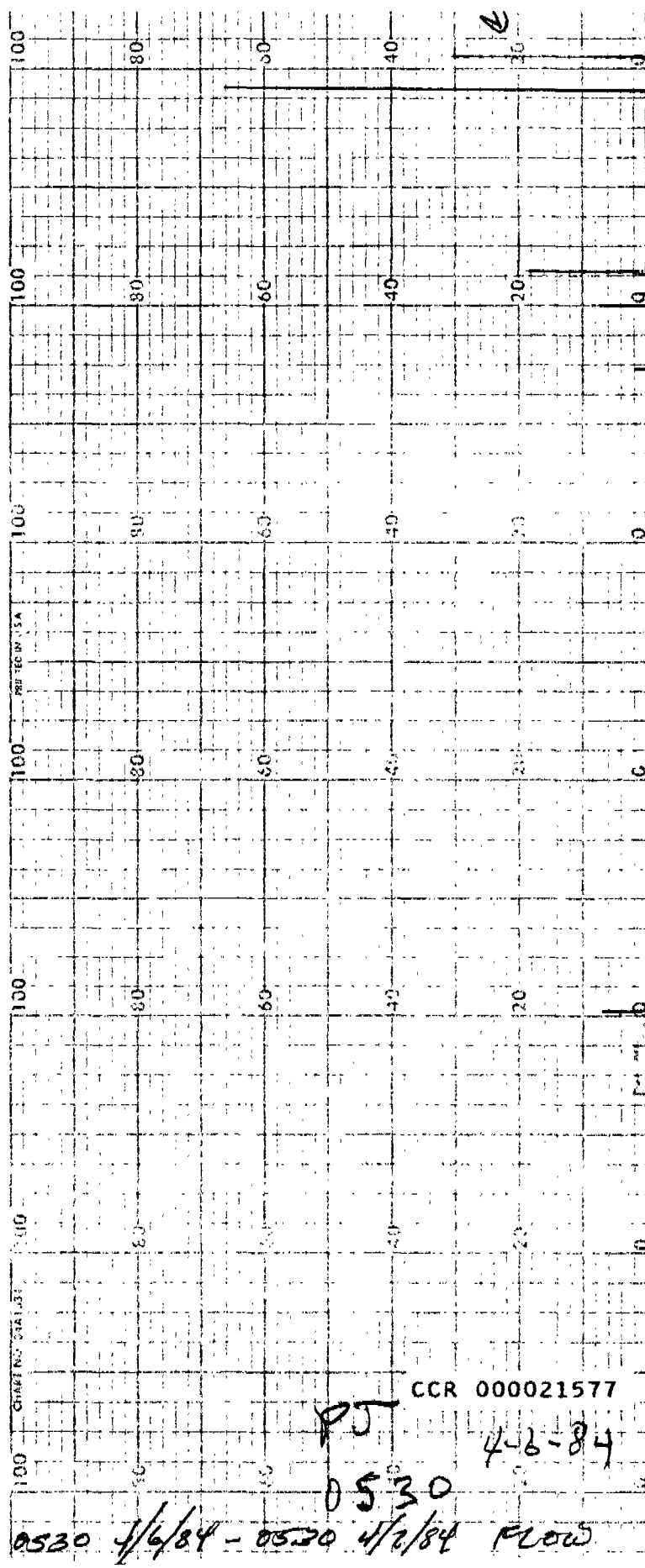
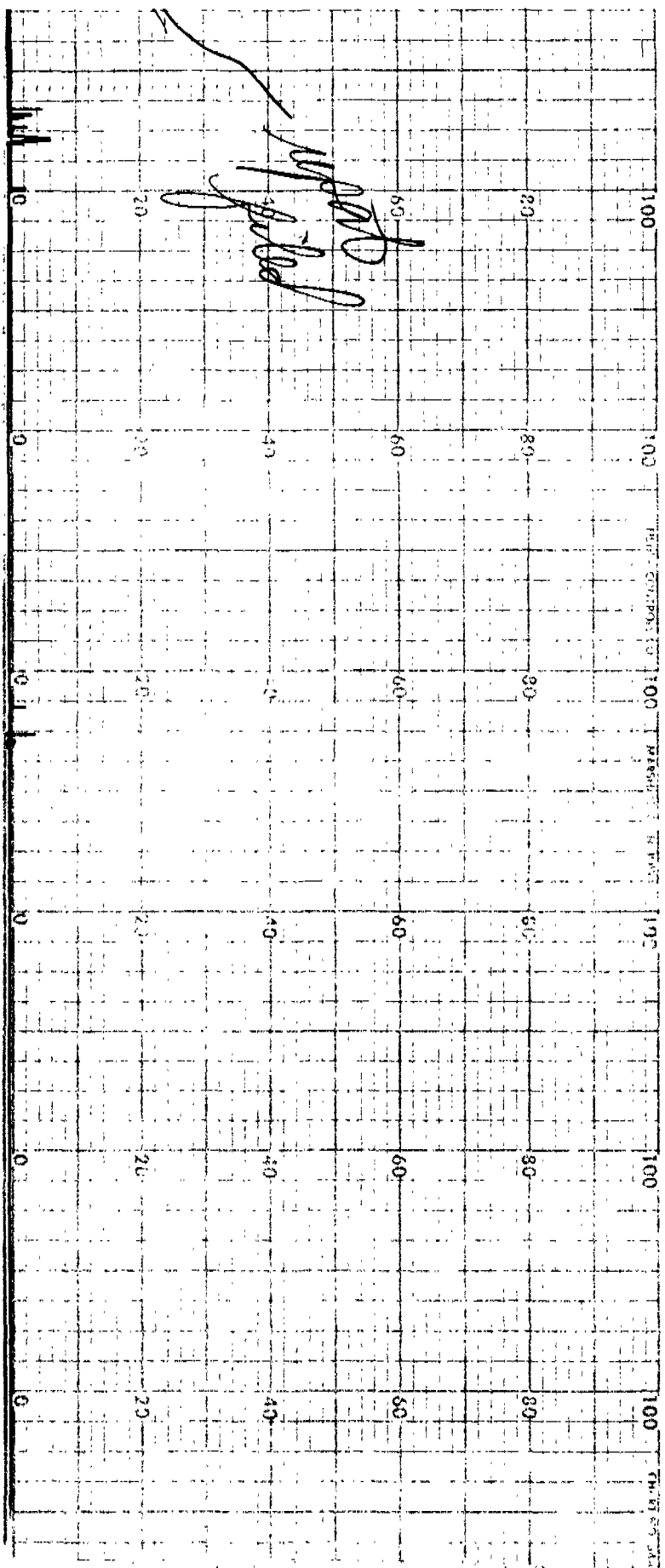


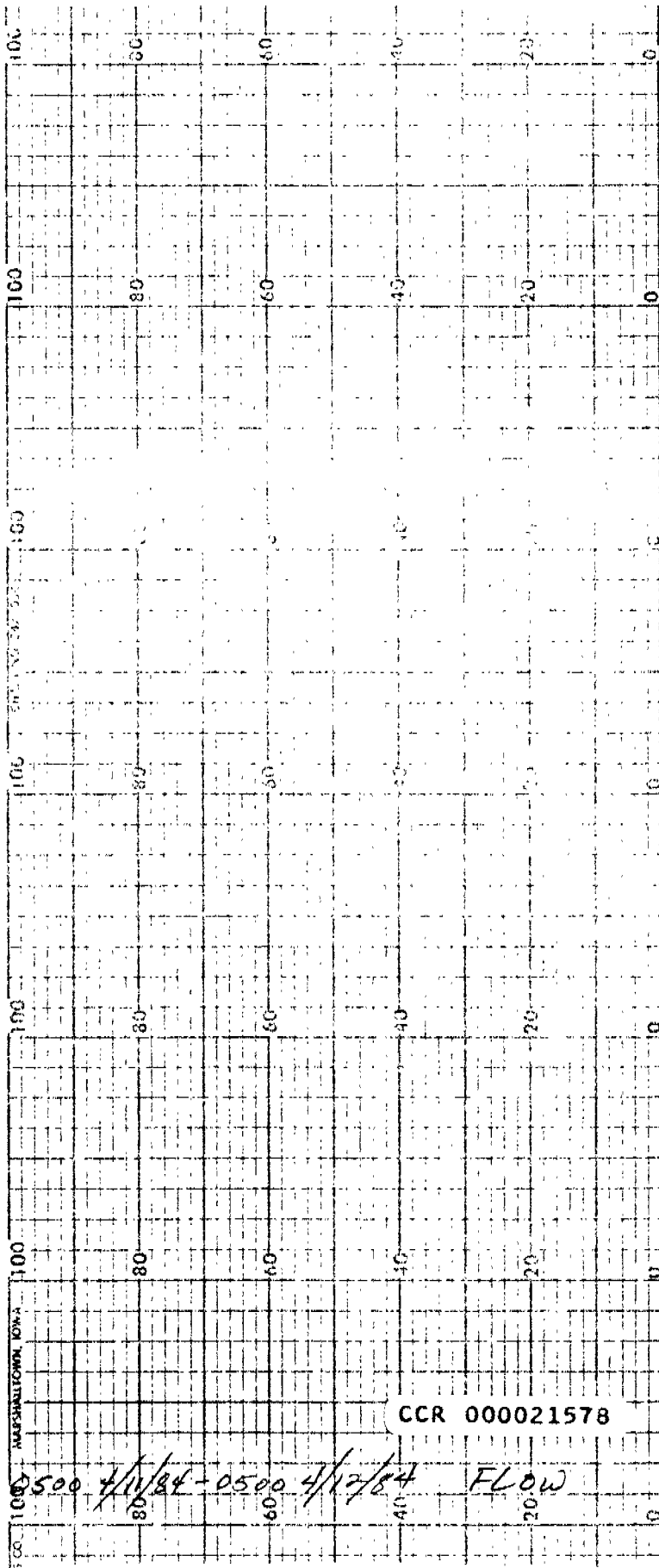
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CCR 000021577

0530 4/6/84 - 0530 4/2/84 FLOW

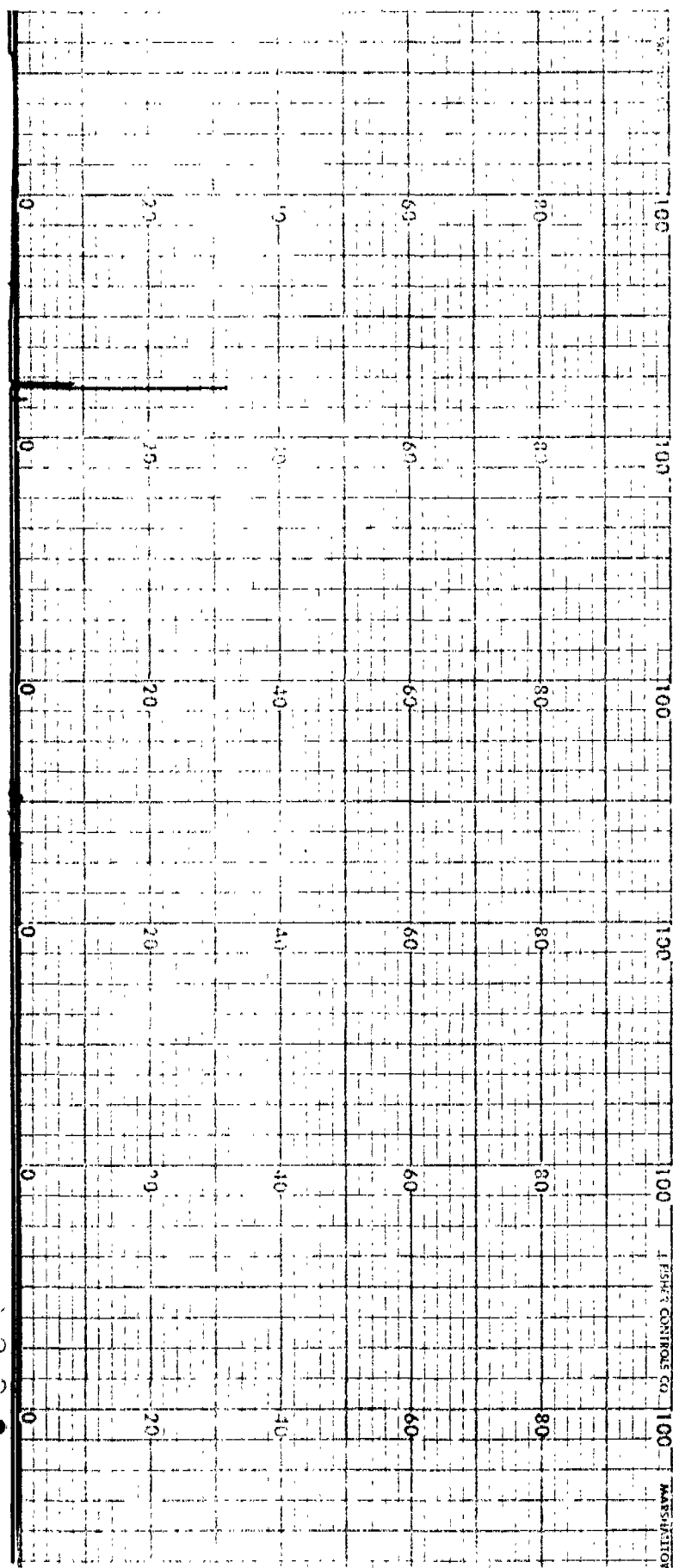
4-8-84



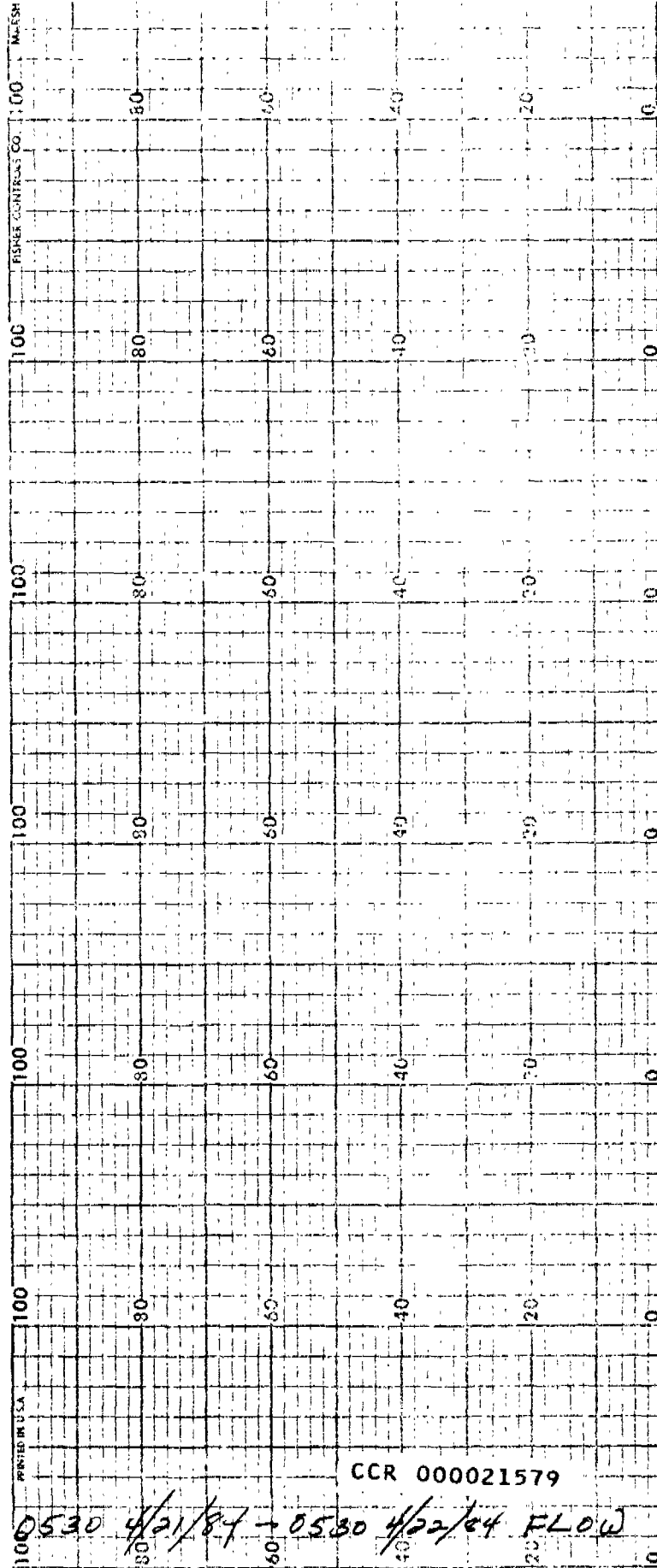


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0500 4/11/84 - 0500 4/17/84 FLOW



J. FISHER CONTROLS CO. 100 MASSACHUSETTS



PRINTED IN U.S.A.

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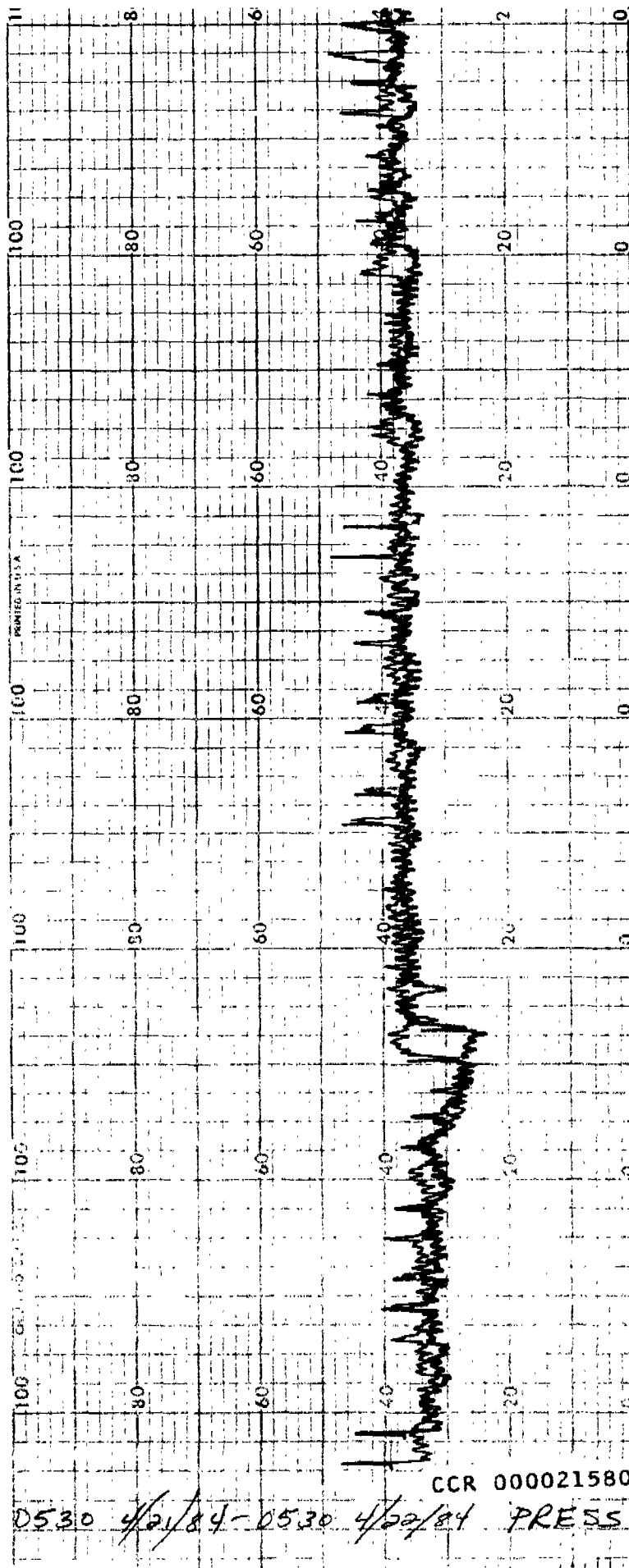
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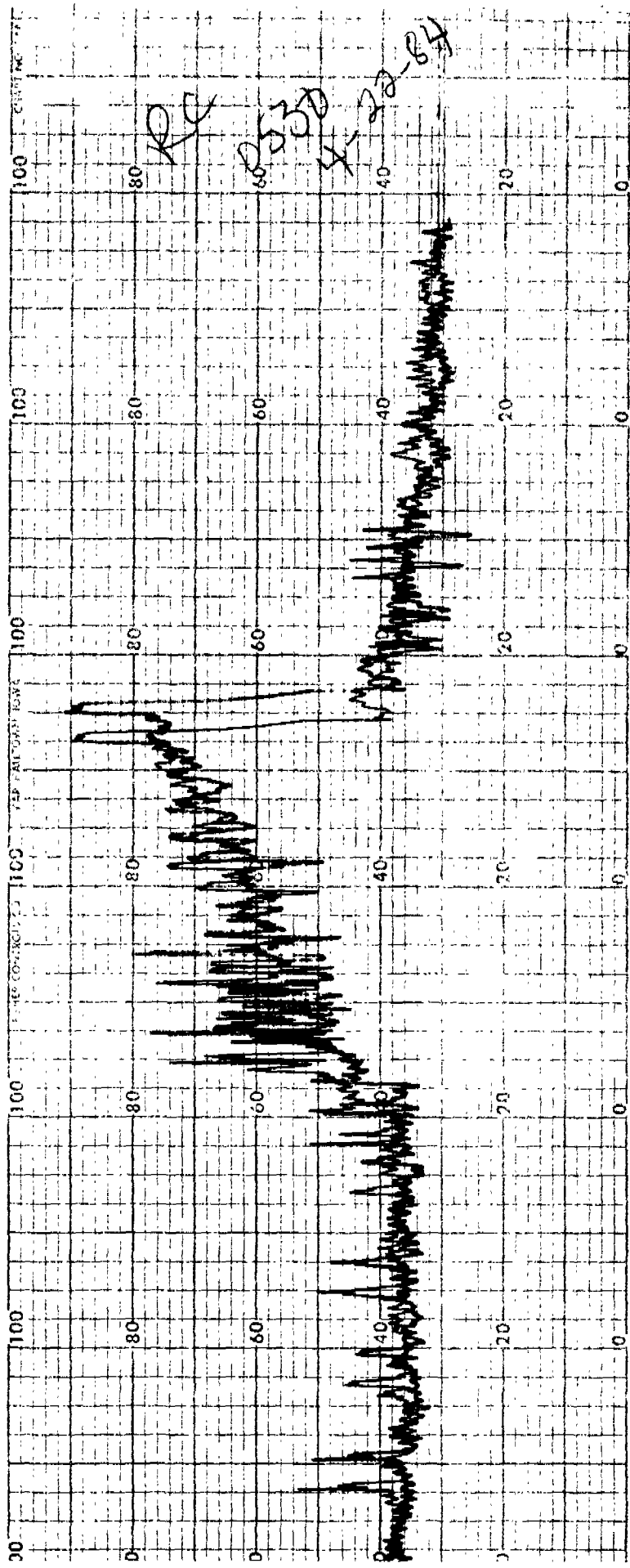
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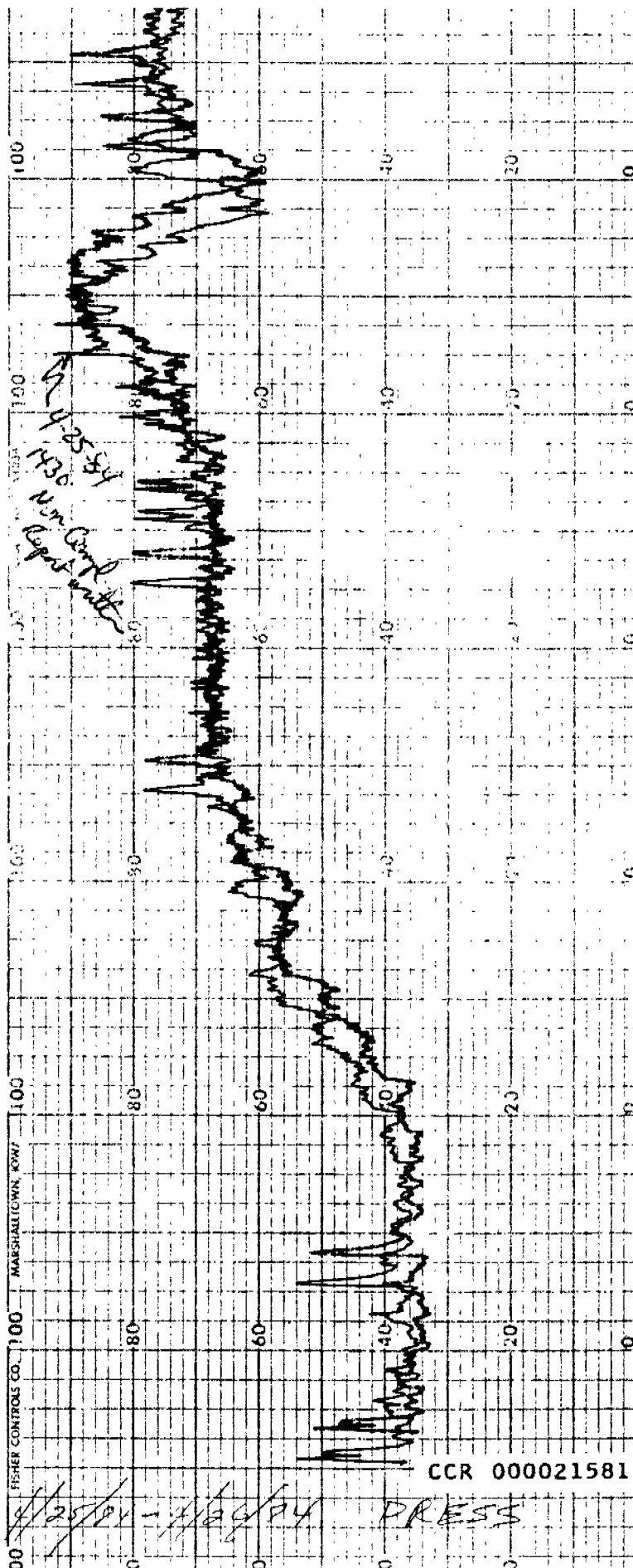


0530 4/21/84-0530 4/22/84 PRESS

CCR 000021580



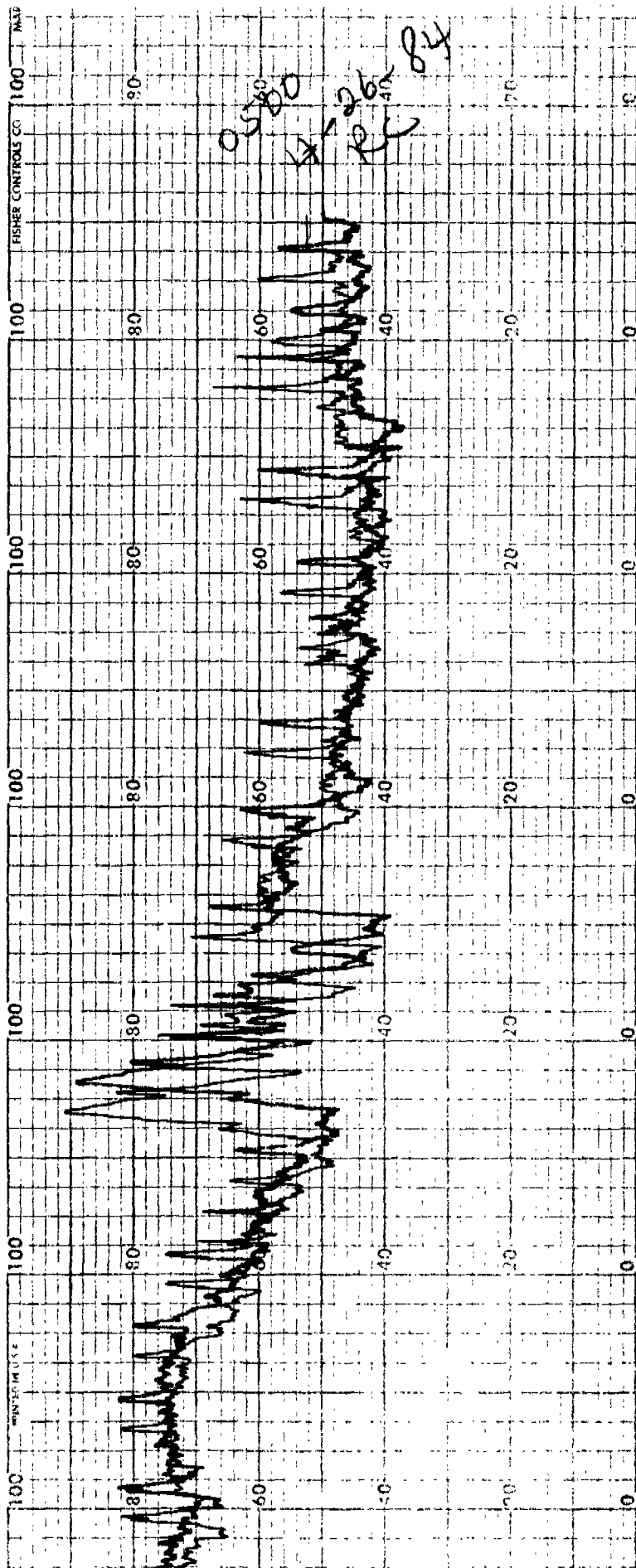
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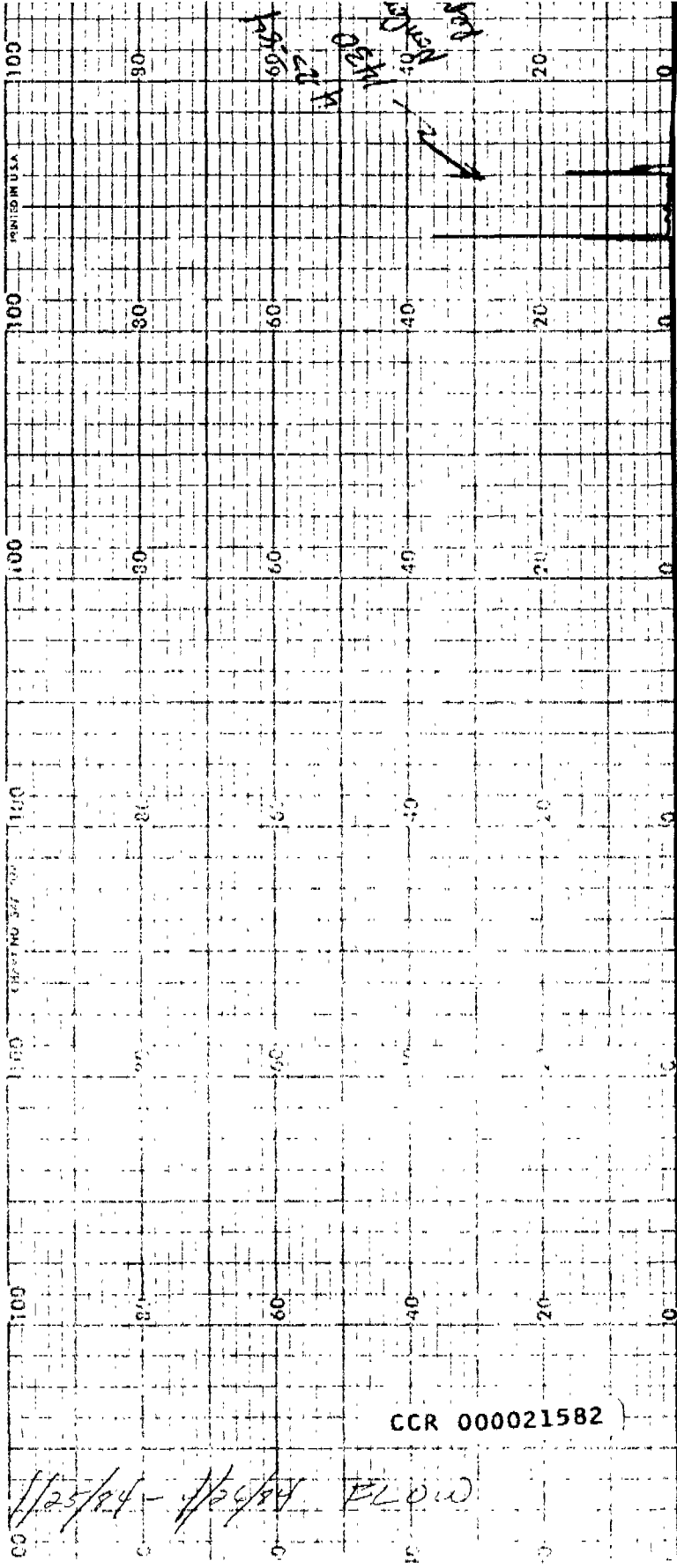


425-54
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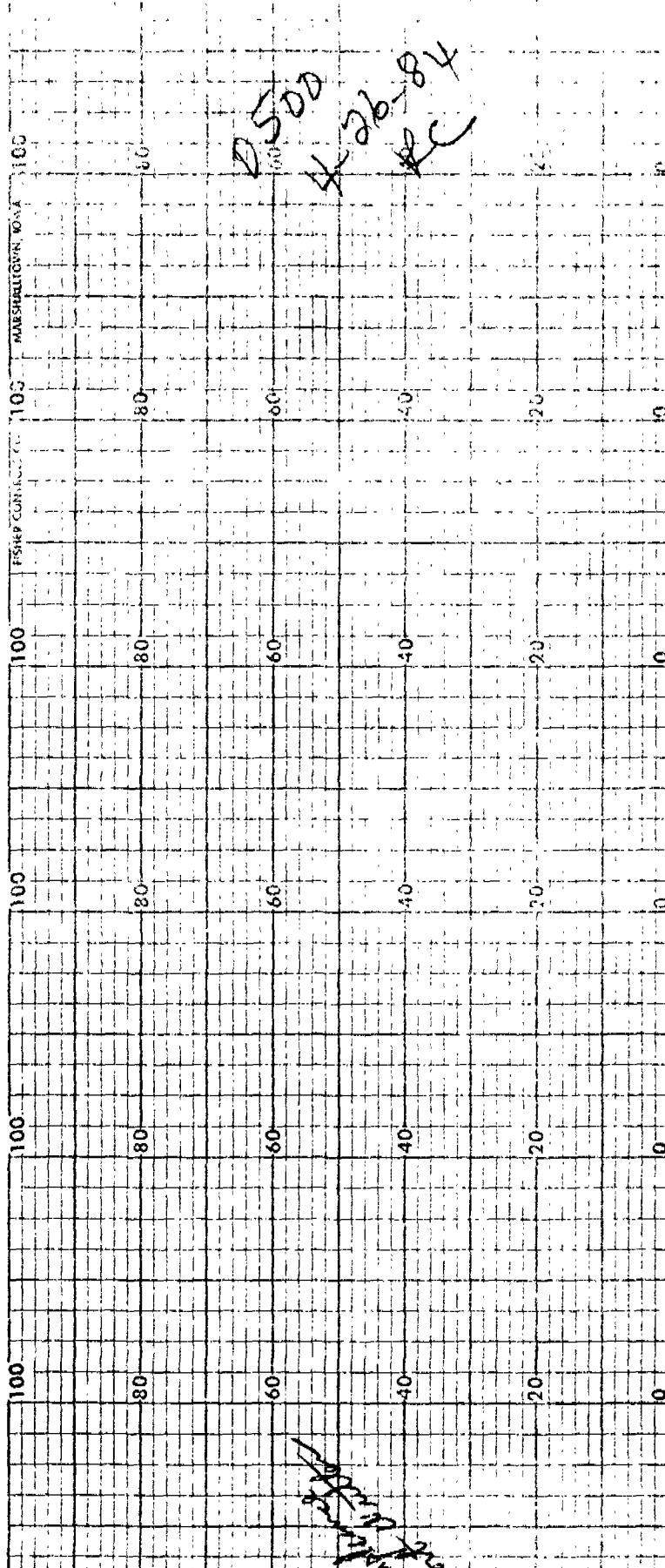
1/25/61 - 1/26/61 PRESS





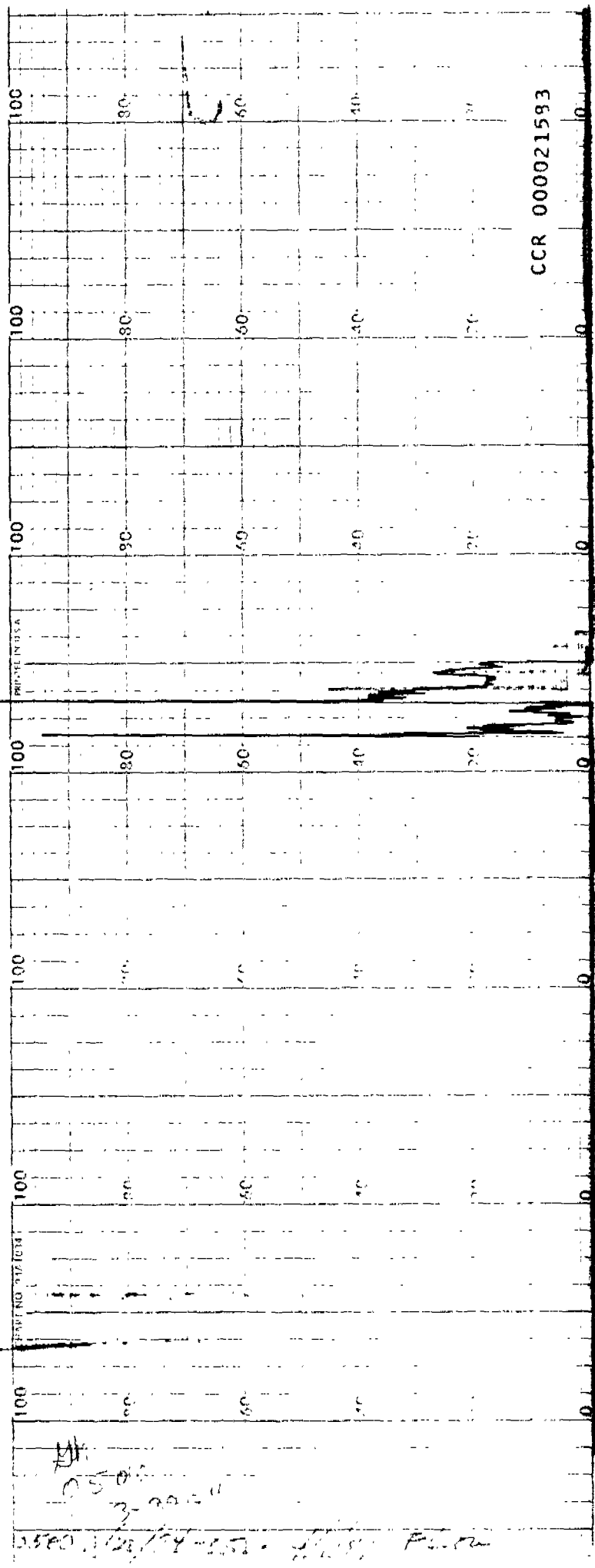
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1/25/84 - 1/24/84 FLOW



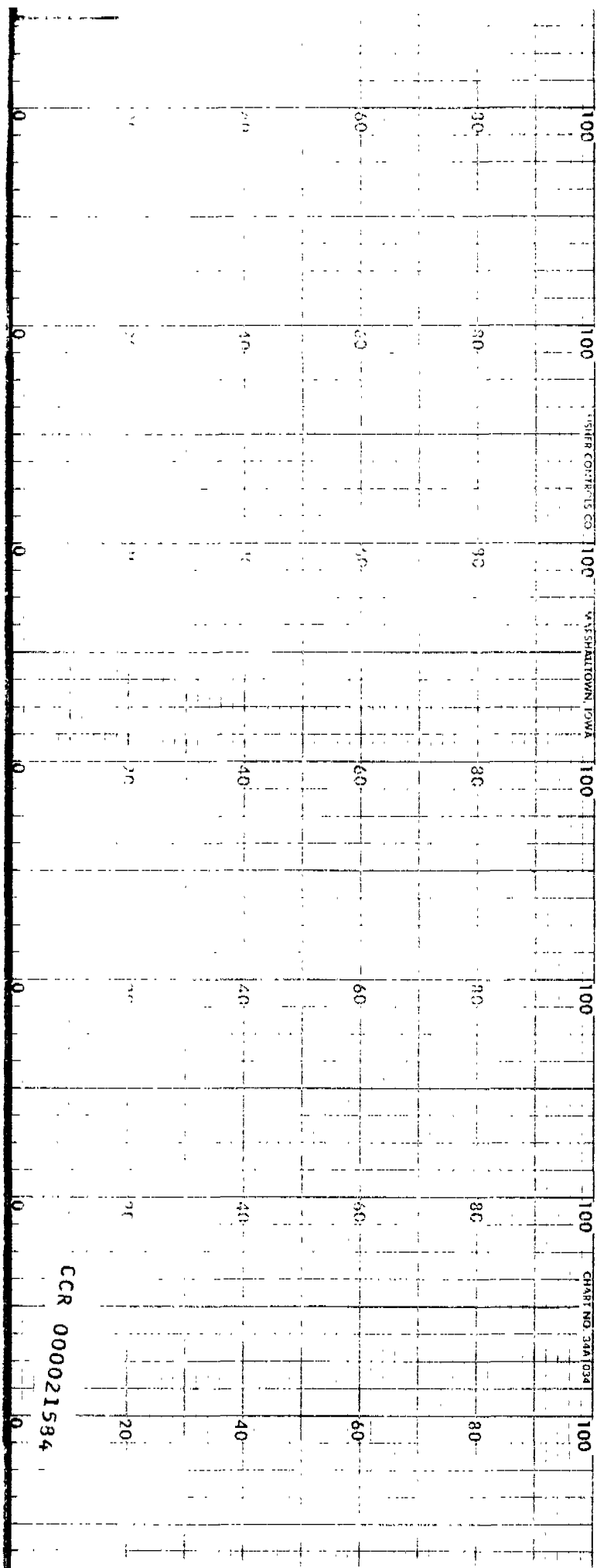
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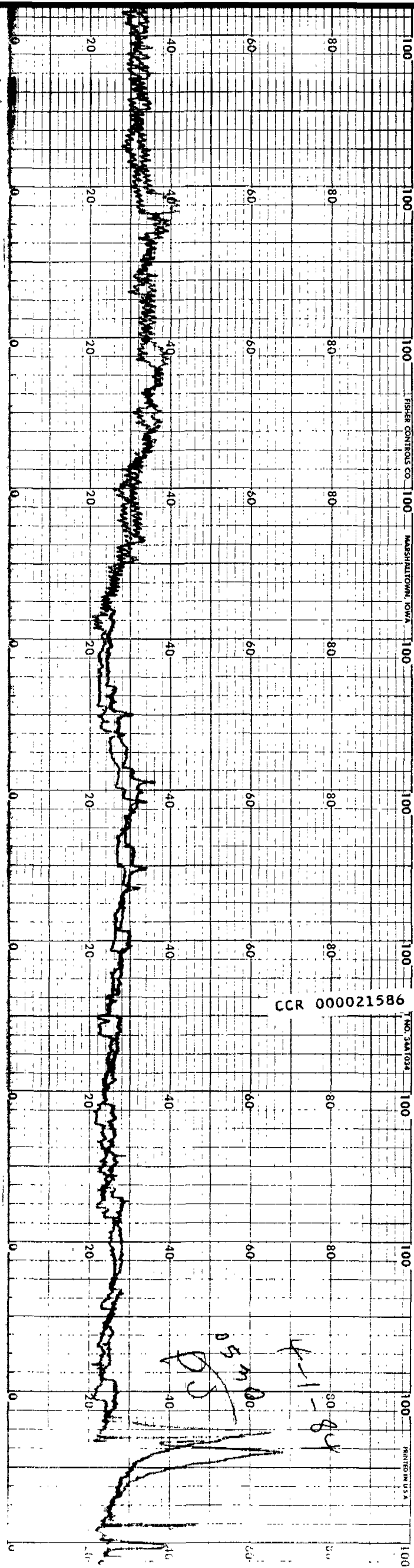
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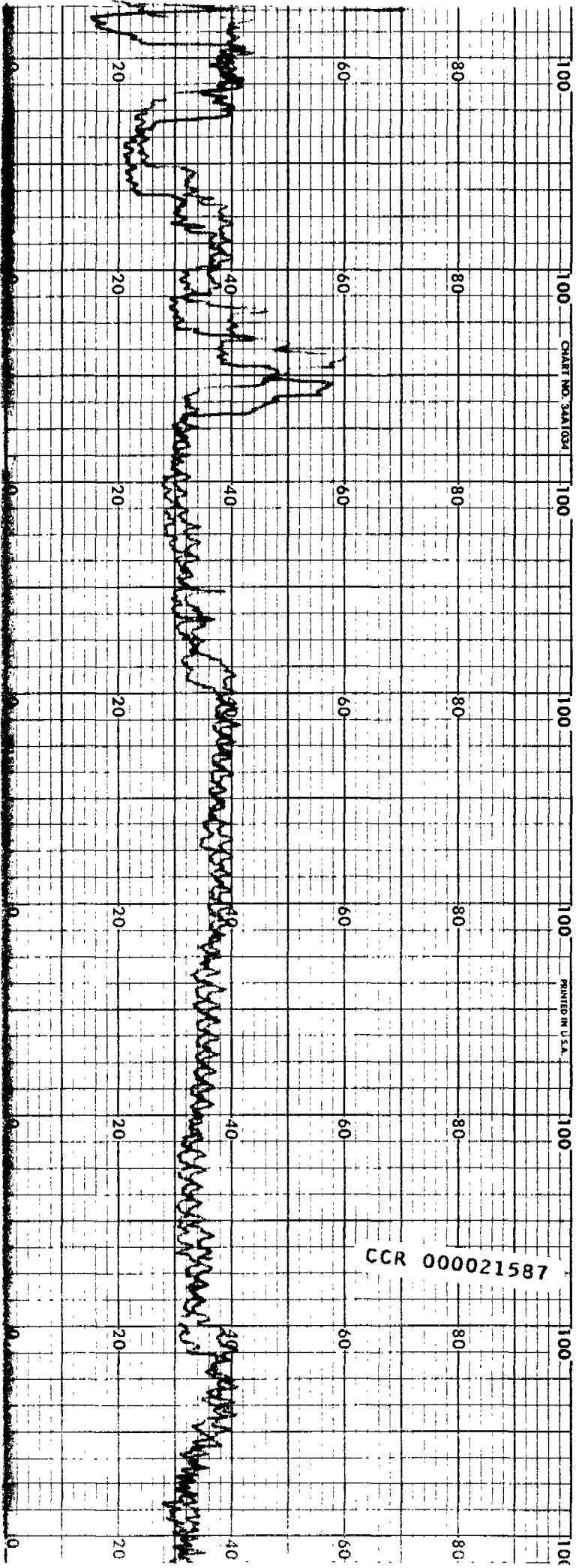
CCR 000021585

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4-1-84

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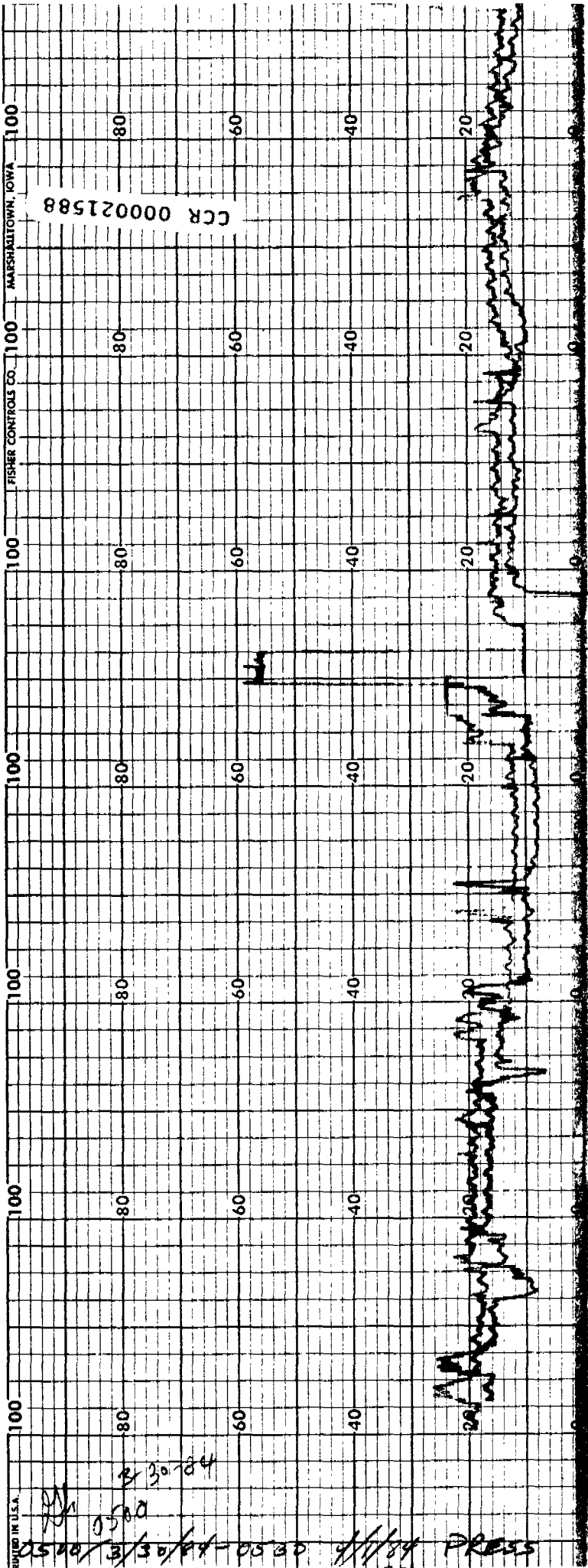


UNITED IN U.S.A.

0500

2/30/84

0500/3/30/84-0030 4/1/84 PRESS



FISHER CONTROLS CO.

MARSHALLTOWN, IOWA

CCR 000021588

Date: 7-5-84

S/S Signature: Proh

VCM VENT REPORT (See Note 1)

Date of incident 9-5-84

Time of incident 12:10

On-line unit ✓ I-901 I-901B

Off-line unit I-901 ✓ I-901B

Main Plant VCM Production Rate 1,000,000 MMlbs./day

Wet Vent Flow Rate 2.2 SCFH

Dry Vent Flow Rate 3.5 SCFH

Firebox Temperature 1350 °C

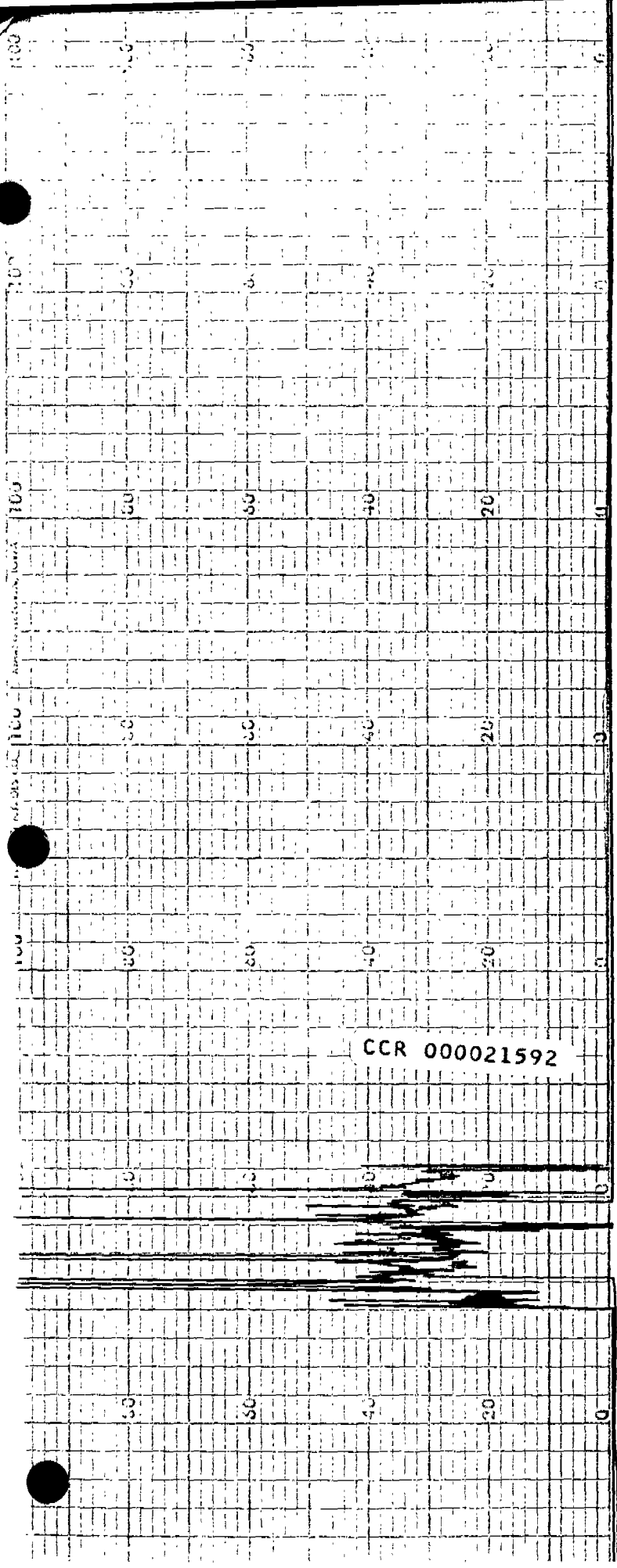
Did the Wet Vent by-pass? 45 min (See Note 2) Yes (Circle answer) No
If yes, how long did it by-pass? 45 min (See Note 2) Yes No
Did the Dry Vent by-pass? 45 min (See Note 2) Yes No
If yes, how long did it by-pass? 45 min (See Note 2) Yes No
Did the Tank Farm Vent by-pass? 45 min (See Note 2) Yes No
If yes, how long did it by-pass? 45 min (See Note 2) Yes No

Did the on-line unit shutdown? Yes No
If yes:

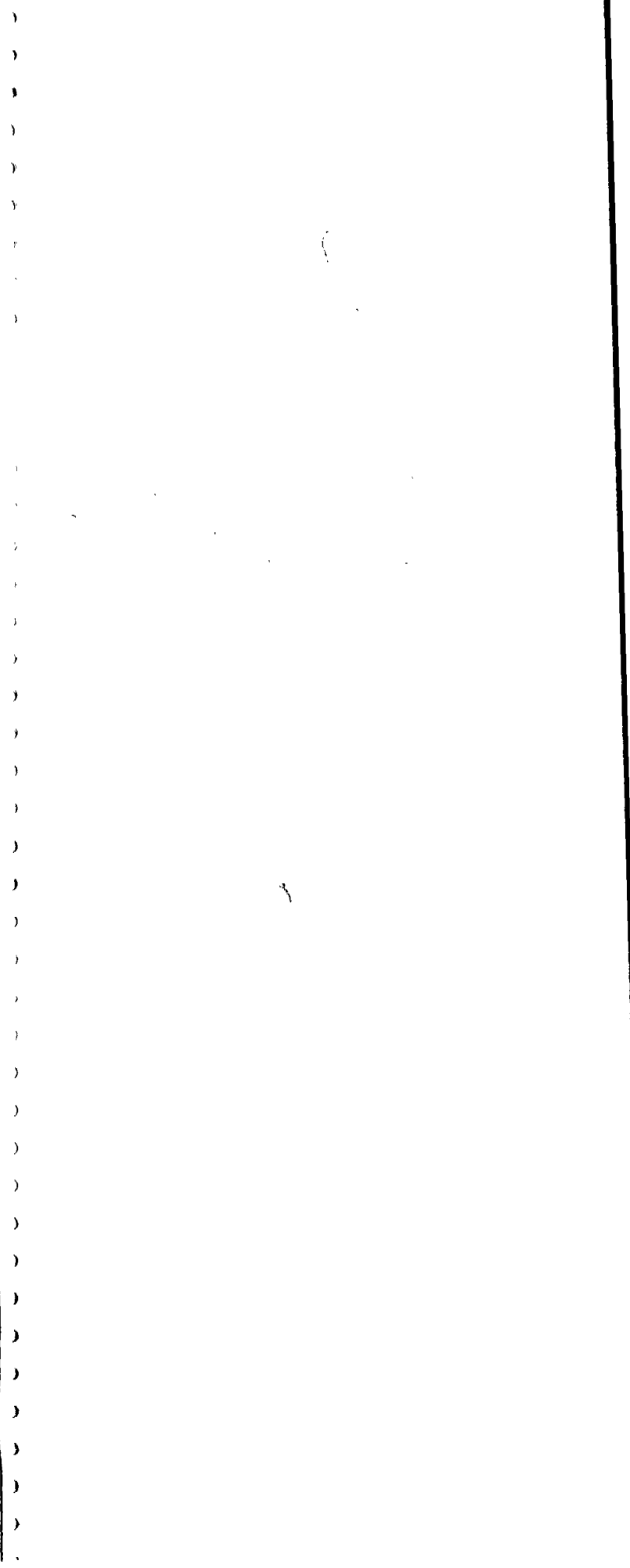
- 1) How long did it take to bring a unit on-line? 3 1/2 hrs. (See Note 2)
- 2) What condition initiated the shutdown: electrical problem
 - a) High firebox temperature? Yes No
 - b) Low steam drum level? Yes No
 - c) High HCl absorber temperature? Yes No
 - d) Low combustion air flow? Yes No
 - e) Loss of flame? Yes No
 - f) Power failure? Yes No
 - g) Manual (Operator) shutdown? Yes No
loss of H.F. lig feed

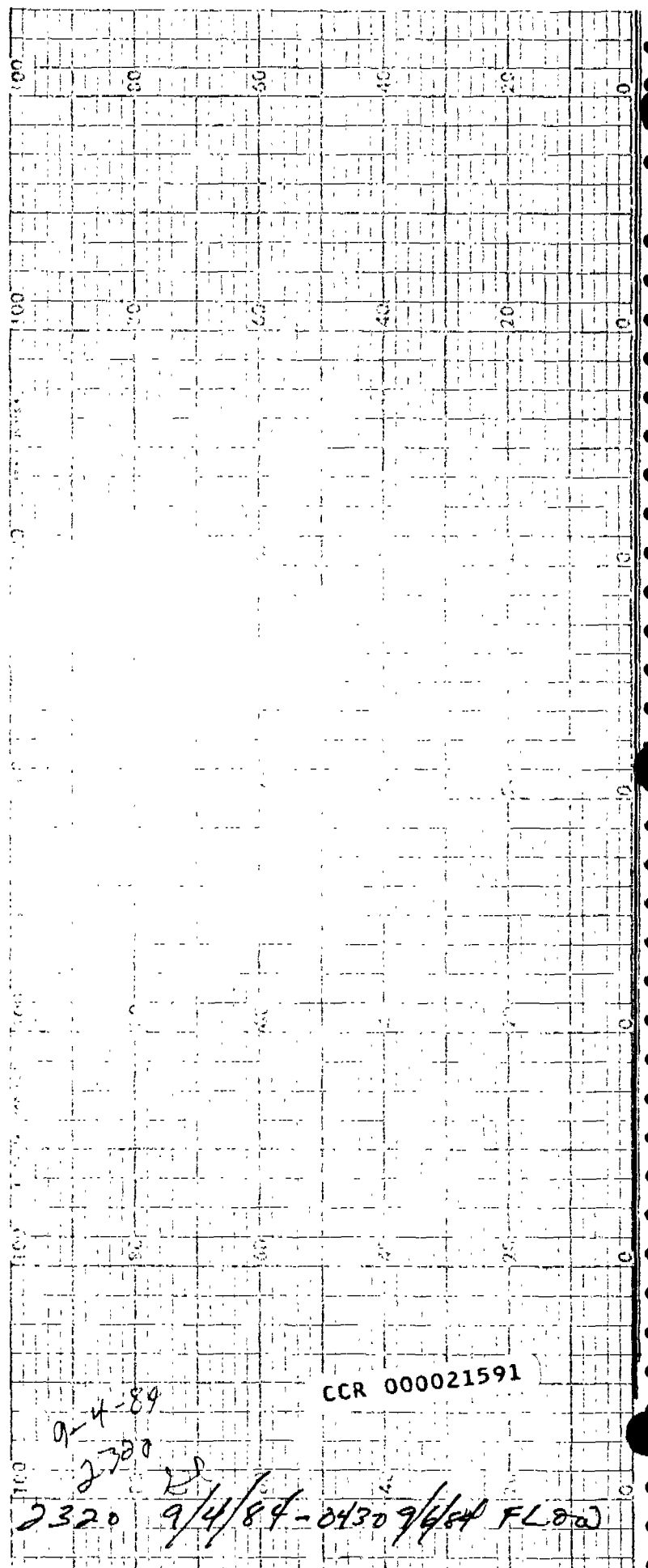
What caused the incident checked above:

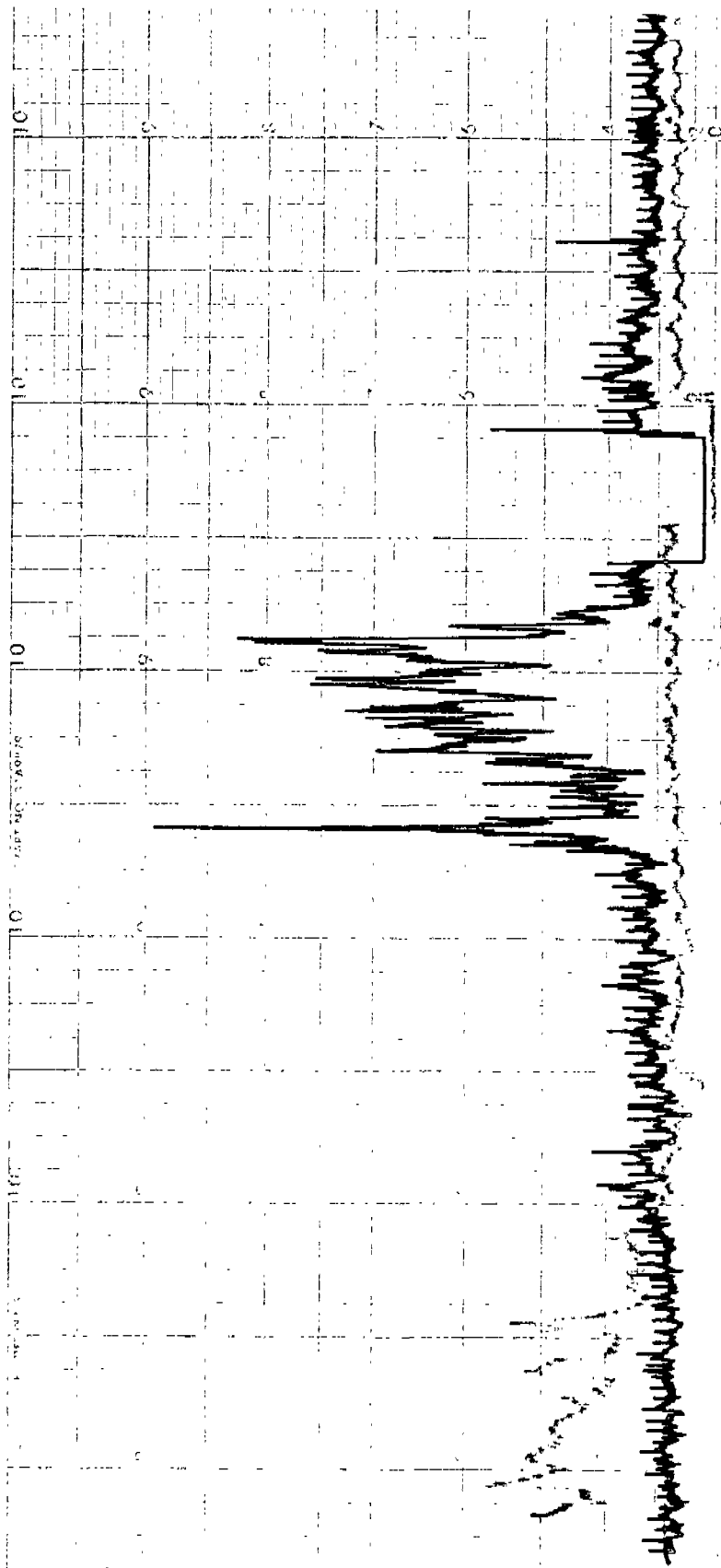
- 1) Excessive vent flow? Yes No
- 2) Rich vent flow, i.e. high ethane in ethylene, etc.? Yes No
- 3) Steam outage? Yes No
- 4) Electricity outage? Yes No
- 5) Other? Explain fig plugged off going to nozzle



CCR 000021592

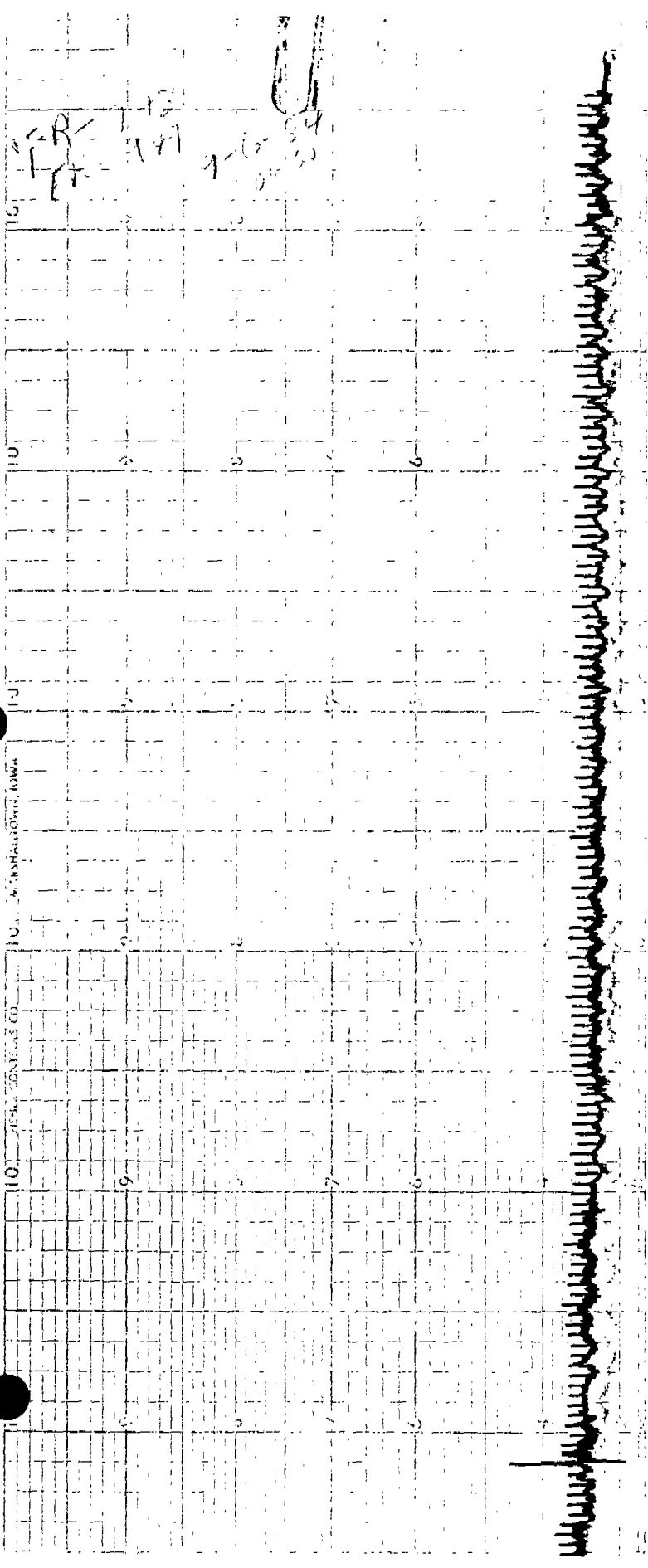






Page 9-
0430 2/5/84

CCR 000021593



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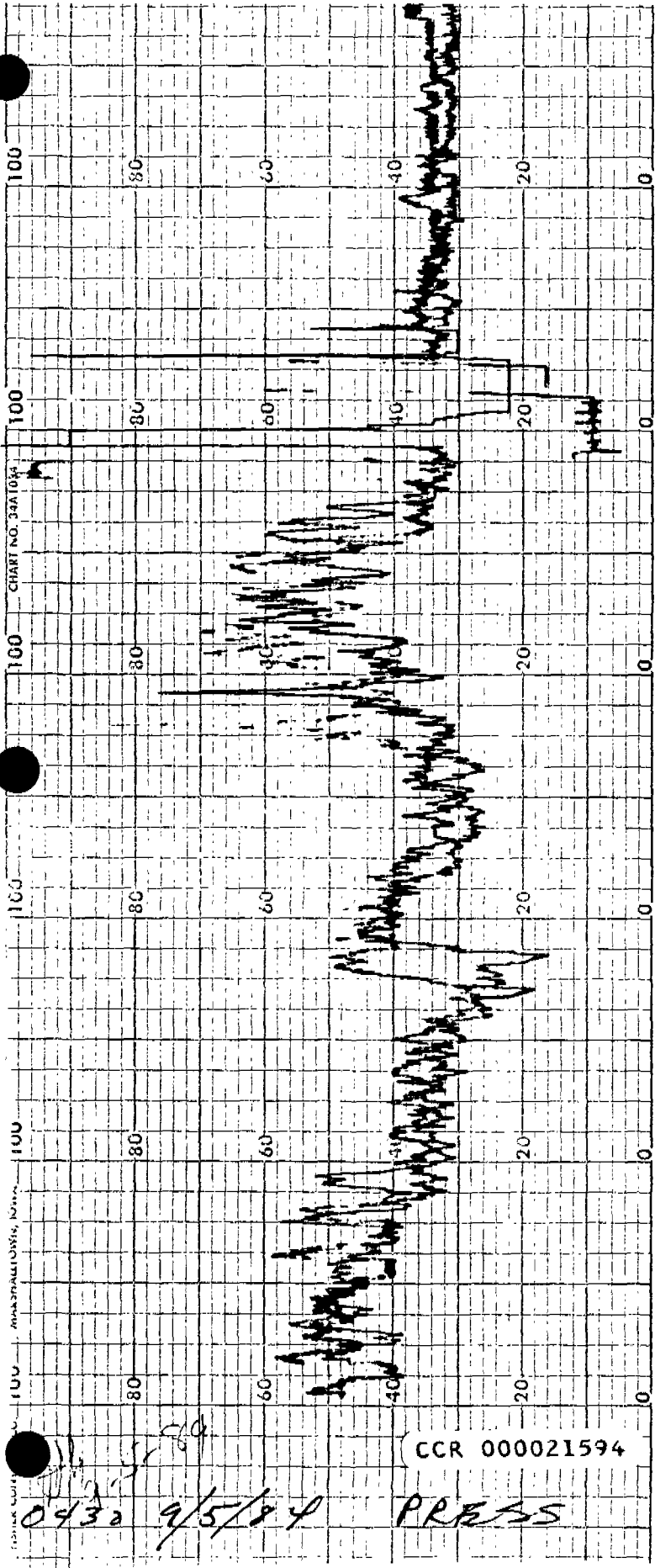
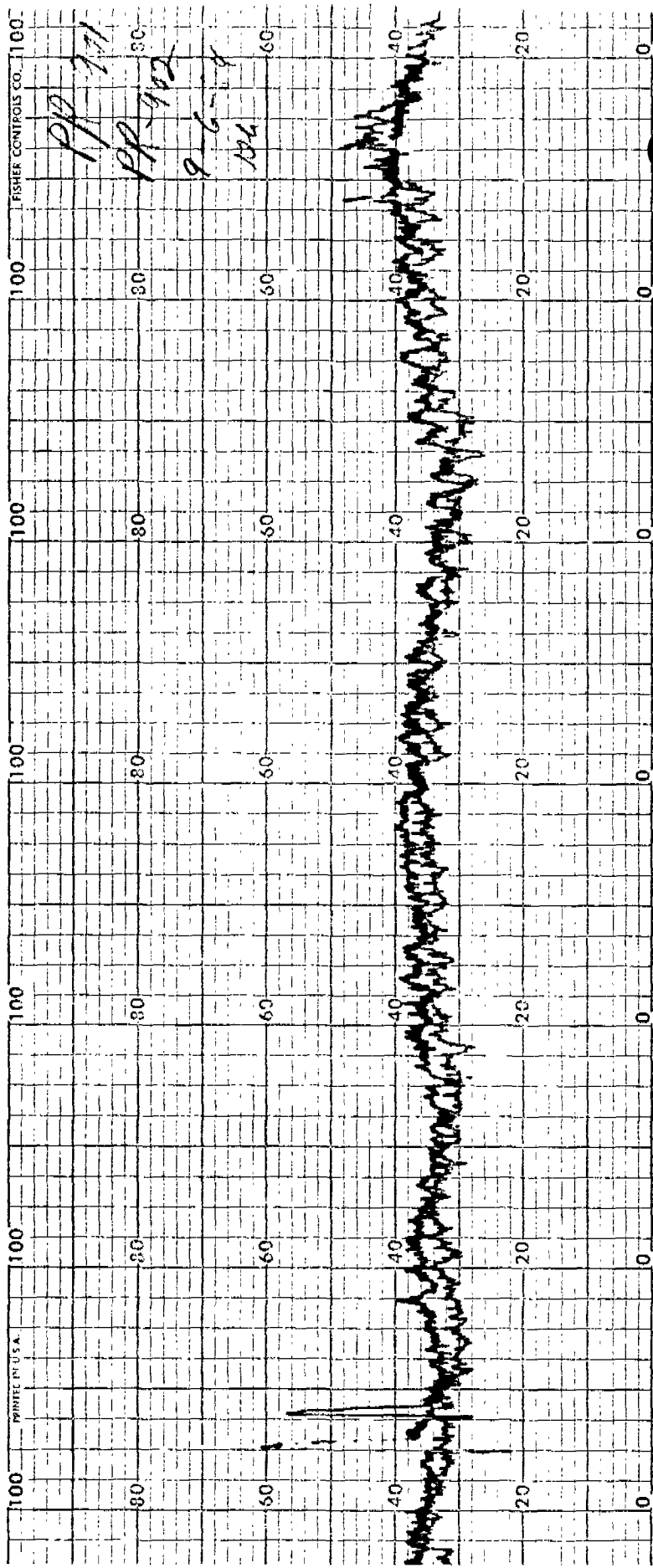


CHART NO. 34A104

MAXIMUM OFFER, 10/1/84

CCR 000021594

0432 9/5/84 PRESS



11:48:42 6- 28- 1984
**** HIGH VCM IN INCINERATOR AREA....POINT # 1
VCM CONCENTRATION = 15.2 PPM

NOT REPORTABLE
<10ppm for all
hourly averages

11:49:50 6- 28- 1984
**** HIGH VCM IN INCINERATOR AREA....POINT # 2
VCM CONCENTRATION = 14.4 PPM

11:50:41 6- 28- 1984
**** HIGH VCM IN INCINERATOR AREA....POINT # 1
VCM CONCENTRATION = 11.5 PPM

11:48:42	#1	#2
until	15.2	14.4
11:51:49	11.5	11.3
	26.7	25.7

11:51:49 6- 28- 1984
**** HIGH VCM IN INCINERATOR AREA....POINT # 2
VCM CONCENTRATION = 11.3 PPM

$\frac{26.7}{30} = 0.89$	$\frac{25.7}{30} = 0.86$
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CCR 000021595

12:00:08 6- 28- 1984
LEAKS DURING THE PAST HOUR:
AREA 1 (CAR-171, PTS 1,2,3) = 0 LEAKS

AREA 3 (CAR-171,PTS 4,9) = 0 LEAKS
 AREA 4 (CAR-171,PTS 1,5) = 0 LEAKS
 AREA 5 (CAR-171,PT 6) = 0 LEAKS
 AREA 6 (CAR-171,PT 7) = 0 LEAKS
 AREA 7 (CAR-171,PT 8) = 0 LEAKS
 AREA 8 (CAR-171,PT 10) = 0 LEAKS
 AREA 9 (CAR-401,PT 1) = 0 LEAKS
 AREA 10 (CAR-401,PT 2) = 0 LEAKS
 AREA 11 (CAR-401,PTS 3,4,5,8) = 0 LEAKS
 AREA 12 (CAR-401,PT 6) = 0 LEAKS
 AREA 13 (CAR-401,PT 7) = 0 LEAKS
 AREA 14 (CAR-401,PTS 9,10) = 0 LEAKS

NUMBER OF TIMES OVER 10 PPM FOR EACH POINT:

POINT	PROCESS AREA	OFF-SITES	INCINERATOR
1	0	0	2
2	0	0	2
3	0	0	
4	0	0	
5	0	0	
6	0	0	
7	0	0	
8	0	0	
9	0	0	
10	0	0	

12:02:56 6- 28- 1984

**** HIGH VCM IN INCINERATOR AREA....POINT # 1
 VCM CONCENTRATION = 43.7 PPM

12:03:47 6- 28- 1984

**** HIGH VCM IN INCINERATOR AREA....POINT # 2
 VCM CONCENTRATION = 43.7 PPM

12:04:55 6- 28- 1984

**** HIGH VCM IN INCINERATOR AREA....POINT # 1
 VCM CONCENTRATION = 43.7 PPM

(CCR 000021596

12:05:46 6- 28- 1984
**** HIGH VCM IN INCINERATOR AREA....POINT # 2
VCM CONCENTRATION = 43.7 PPM

12:06:54 6- 28- 1984
**** HIGH VCM IN INCINERATOR AREA....POINT # 1
VCM CONCENTRATION = 43.7 PPM

12:07:45 6- 28- 1984
**** HIGH VCM IN INCINERATOR AREA....POINT # 2
VCM CONCENTRATION = 43.7 PPM

12:02:56 unit	#1	#2
	43.7	43.7
12:07:45	43.7	43.7
	43.7	43.7
	131.1	131.1

$\frac{131.1}{30} = 4.37$

13:00:16 6- 28- 1984
LEAKS DURING THE PAST HOUR:
AREA 1 (CAR-171,PTS 1,2,3) = 0 LEAKS
AREA 2 (CAR-171,PTS 1,4) = 0 LEAKS
AREA 3 (CAR-171,PTS 4,9) = 0 LEAKS
AREA 4 (CAR-171,PTS 1,5) = 0 LEAKS
AREA 5 (CAR-171,PT 6) = 0 LEAKS
AREA 6 (CAR-171,PT 7) = 0 LEAKS
AREA 7 (CAR-171,PT 8) = 0 LEAKS
AREA 8 (CAR-171,PT 10) = 0 LEAKS
AREA 9 (CAR-401,PT 1) = 0 LEAKS
AREA 10 (CAR-401,PT 2) = 0 LEAKS
AREA 11 (CAR-401,PTS 3,4,5,8) = 0 LEAKS
AREA 12 (CAR-401,PT 6) = 0 LEAKS
AREA 13 (CAR-401,PT 7) = 0 LEAKS

(CCR 000021597

NUMBER OF TIMES OVER 10 PPM FOR EACH POINT:

POINT	PROCESS AREA	OFF-SITES	INCINERATOR
1	0	0	3
2	0	0	3
3	0	0	
4	0	0	
5	0	0	
6	0	0	
7	0	0	
8	0	0	
9	0	0	
10	0	0	

14:00:07 6- 28- 1984

LEAKS DURING THE PAST HOUR:

AREA 1	(CAR-171,PTS 1,2,3) =	0 LEAKS
AREA 2	(CAR-171,PTS 1,4) =	0 LEAKS
AREA 3	(CAR-171,PTS 4,9) =	0 LEAKS
AREA 4	(CAR-171,PTS 1,5) =	0 LEAKS
AREA 5	(CAR-171,PT 6) =	0 LEAKS
AREA 6	(CAR-171,PT 7) =	0 LEAKS
AREA 7	(CAR-171,PT 8) =	0 LEAKS
AREA 8	(CAR-171,PT 10) =	0 LEAKS
AREA 9	(CAR-401,PT 1) =	0 LEAKS
AREA 10	(CAR-401,PT 2) =	0 LEAKS

(CCR 000021598

18:37:27 6- 28- 1984
**** HIGH VCM IN PROCESS AREA....POINT # 5
VCM CONCENTRATION = 30.4 PPM

18:40:51 6- 28- 1984
**** HIGH VCM IN INCINERATOR AREA....POINT # 1
VCM CONCENTRATION = 16.1 PPM

18:41:59 6- 28- 1984
**** HIGH VCM IN INCINERATOR AREA....POINT # 2
VCM CONCENTRATION = 13.7 PPM

18:42:33 6- 28- 1984
**** STREAM ID OUT OF RANGE...CAR-171
**** STREAM # 10

18:42:50 6- 28- 1984
**** STREAM ID OUT OF RANGE...CAR-171
**** STREAM # 11

(CCR 000021599

18:44:15 6- 28- 1984
**** HIGH VCM IN PROCESS AREA....POINT # 1
VCM CONCENTRATION = 31.8 PPM

18:44:49 6- 28- 1984
**** HIGH VCM IN INCINERATOR AREA....POINT # 1
VCM CONCENTRATION = 12.7 PPM

18:47:05 6- 28- 1984
**** HIGH VCM IN PROCESS AREA....POINT # 4
VCM CONCENTRATION = 23.7 PPM

18:56:43 6- 28- 1984
**** HIGH VCM IN INCINERATOR AREA....POINT # 1
VCM CONCENTRATION = 13.7 PPM

18:57:51 6- 28- 1984
**** HIGH VCM IN INCINERATOR AREA....POINT # 2
VCM CONCENTRATION = 14.2 PPM

(CCR 000021600

18:44:15
until
18:57:51

#1	#2
16.1	13.7
12.7	14.2
13.7	
42.5	27.9

$$\frac{42.5}{30} = 1.42$$

$$\frac{27.7}{30} = 0.92$$

19:00:13 6- 28- 1984

LEAKS DURING THE PAST HOUR:

AREA 1	(CAR-171,PTS 1,2,3) =	0 LEAKS
AREA 2	(CAR-171,PTS 1,4) =	0 LEAKS
AREA 3	(CAR-171,PTS 4,9) =	0 LEAKS
AREA 4	(CAR-171,PTS 1,5) =	0 LEAKS
AREA 5	(CAR-171,PT 6) =	0 LEAKS
AREA 6	(CAR-171,PT 7) =	0 LEAKS
AREA 7	(CAR-171,PT 8) =	0 LEAKS
AREA 8	(CAR-171,PT 10) =	0 LEAKS
AREA 9	(CAR-401,PT 1) =	0 LEAKS
AREA 10	(CAR-401,PT 2) =	0 LEAKS
AREA 11	(CAR-401,PTS 3,4,5,8) =	0 LEAKS
AREA 12	(CAR-401,PT 6) =	0 LEAKS
AREA 13	(CAR-401,PT 7) =	0 LEAKS
AREA 14	(CAR-401,PTS 9,10) =	0 LEAKS

NUMBER OF TIMES OVER 10 PPM FOR EACH POINT:

POINT	PROCESS AREA	OFF-SITES	INCINERATOR
1	1	0	3
2	0	0	2
3	0	0	
4	1	0	
5	1	0	
6	0	0	
7	0	0	
8	0	0	
9	0	0	
10	0	0	

19:02:44 6- 28- 1984

**** HIGH VCM IN INCINERATOR AREA....POINT # 1
VCM CONCENTRATION = 11.4 PPM

19:03:52 6- 28- 1984

**** HIGH VCM IN INCINERATOR AREA....POINT # 2
VCM CONCENTRATION = 11.3 PPM

(CCR 000021601

19:14:04 6- 28- 1984
LEAK IN PROCESS AREA 4

19:14:55 6- 28- 1984
**** HIGH VCM IN INCINERATOR AREA....POINT # 1
VCM CONCENTRATION = 43.7 PPM

19:15:46 6- 28- 1984
**** HIGH VCM IN INCINERATOR AREA....POINT # 2
VCM CONCENTRATION = 43.7 PPM

19:16:54 6- 28- 1984
**** HIGH VCM IN INCINERATOR AREA....POINT # 1
VCM CONCENTRATION = 43.7 PPM

19:17:45 6- 28- 1984
**** HIGH VCM IN INCINERATOR AREA....POINT # 2
VCM CONCENTRATION = 43.7 PPM

(CCR 000021602

19:02:40
unit 17
19:19:44

# 1	# 2
11.4	11.3
43.7	43.7
43.7	43.7
43.7	43.7
<u>142.5</u>	<u>142.4</u>

$\frac{142.5}{30} = 4.75$

19:18:53 6- 28- 1984
**** HIGH VCM IN INCINERATOR AREA....POINT # 1
VCM CONCENTRATION = 43.7 PPM

19:19:44 6- 28- 1984
**** HIGH VCM IN INCINERATOR AREA....POINT # 2
VCM CONCENTRATION = 43.7 PPM

19:29:05 6- 28- 1984
**** HIGH VCM IN PROCESS AREA....POINT # 6
VCM CONCENTRATION = 13.9 PPM

(CCR 000021603

20:00:04 6- 28- 1984

LEAKS DURING THE PAST HOUR:

AREA 1 (CAR-171,PTS 1,2,3) = 0 LEAKS
AREA 2 (CAR-171,PTS 1,4) = 0 LEAKS
AREA 3 (CAR-171,PTS 4,9) = 0 LEAKS
AREA 4 (CAR-171,PTS 1,5) = 1 LEAKS
AREA 5 (CAR-171,PT 6) = 0 LEAKS
AREA 6 (CAR-171,PT 7) = 0 LEAKS
AREA 7 (CAR-171,PT 8) = 0 LEAKS
AREA 8 (CAR-171,PT 10) = 0 LEAKS
AREA 9 (CAR-401,PT 1) = 0 LEAKS
AREA 10 (CAR-401,PT 2) = 0 LEAKS
AREA 11 (CAR-401,PTS 3,4,5,8) = 0 LEAKS
AREA 12 (CAR-401,PT 6) = 0 LEAKS
AREA 13 (CAR-401,PT 7) = 0 LEAKS
AREA 14 (CAR-401,PTS 9,10) = 0 LEAKS

NUMBER OF TIMES OVER 10 PPM FOR EACH POINT:

POINT	PROCESS AREA	OFF-SITES	INCINERATOR
1	0	0	4
2	0	0	4
3	0	0	
4	0	0	
5	0	0	
6	1	0	
7	0	0	
8	0	0	
9	0	0	
10	0	0	

20:07:58 6- 28- 1984

**** HIGH VCM IN INCINERATOR AREA....POINT # 2
VCM CONCENTRATION = 15.7 PPM

20:08:49 6- 28- 1984

**** HIGH VCM IN INCINERATOR AREA....POINT # 1
VCM CONCENTRATION = 15.7 PPM

(CCR 000021604

20:09:57 6- 28- 1984

**** HIGH VCM IN INCINERATOR AREA....POINT # 2
VCM CONCENTRATION = 14.5 PPM

20:10:48 6- 28- 1984
 **** HIGH VCM IN INCINERATOR AREA....POINT # 1
 VCM CONCENTRATION = 14.3 PPM

20:07:58	#1	#2
20:13:55	15.7	15.7
	14.3	14.5
	13.0	14.0
	<u>43</u>	<u>12.8</u>
		57

20:11:56 6- 28- 1984
 **** HIGH VCM IN INCINERATOR AREA....POINT # 2
 VCM CONCENTRATION = 14.0 PPM

$\frac{43}{30} = 1.43$	$\frac{57}{31} = 1.9$
------------------------	-----------------------

20:12:47 6- 28- 1984
 **** HIGH VCM IN INCINERATOR AREA....POINT # 1
 VCM CONCENTRATION = 13.0 PPM

20:13:55 6- 28- 1984
 **** HIGH VCM IN INCINERATOR AREA....POINT # 2
 VCM CONCENTRATION = 12.8 PPM

(CCR 000021605

21:00:12 6- 28- 1984

LEAKS DURING THE PAST HOUR:

AREA 1	(CAR-171,PTS 1,2,3) =	0 LEAKS
AREA 2	(CAR-171,PTS 1,4) =	0 LEAKS
AREA 3	(CAR-171,PTS 4,9) =	0 LEAKS
AREA 4	(CAR-171,PTS 1,5) =	0 LEAKS
AREA 5	(CAR-171,PT 6) =	0 LEAKS
AREA 6	(CAR-171,PT 7) =	0 LEAKS
AREA 7	(CAR-171,PT 8) =	0 LEAKS
AREA 8	(CAR-171,PT 10) =	0 LEAKS
AREA 9	(CAR-401,PT 1) =	0 LEAKS
AREA 10	(CAR-401,PT 2) =	0 LEAKS
AREA 11	(CAR-401,PTS 3,4,5,8) =	0 LEAKS
AREA 12	(CAR-401,PT 6) =	0 LEAKS
AREA 13	(CAR-401,PT 7) =	0 LEAKS
AREA 14	(CAR-401,PTS 9,10) =	0 LEAKS

NUMBER OF TIMES OVER 10 PPM FOR EACH POINT:

POINT	PROCESS AREA	OFF-SITES	INCINERATOR
1	0	0	3
2	0	0	4
3	0	0	
4	0	0	
5	0	0	
6	0	0	
7	0	0	
8	0	0	
9	0	0	
10	0	0	

22:00:03 6- 28- 1984

LEAKS DURING THE PAST HOUR:

AREA 1	(CAR-171,PTS 1,2,3) =	0 LEAKS
AREA 2	(CAR-171,PTS 1,4) =	0 LEAKS
AREA 3	(CAR-171,PTS 4,9) =	0 LEAKS
AREA 4	(CAR-171,PTS 1,5) =	0 LEAKS
AREA 5	(CAR-171,PT 6) =	0 LEAKS
AREA 6	(CAR-171,PT 7) =	0 LEAKS
AREA 7	(CAR-171,PT 8) =	0 LEAKS
AREA 8	(CAR-171,PT 10) =	0 LEAKS
AREA 9	(CAR-401,PT 1) =	0 LEAKS
AREA 10	(CAR-401,PT 2) =	0 LEAKS
AREA 11	(CAR-401,PTS 3,4,5,8) =	0 LEAKS
AREA 12	(CAR-401,PT 6) =	0 LEAKS
AREA 13	(CAR-401,PT 7) =	0 LEAKS
AREA 14	(CAR-401,PTS 9,10) =	0 LEAKS

CCR 000021606

NOT REPORTABLE

<10ppm for all hourly averages

00:32:51 7- 20- 1984
*** HIGH VCM IN PROCESS AREA....POINT # 8
VCM CONCENTRATION = 20.9 PPM

(CCR 000021607

00:42:12 7- 20- 1984
**** STREAM ID OUT OF RANGE...CAR-904
**** STREAM # 2

00:42:29 7- 20- 1984
**** STREAM ID OUT OF RANGE...CAR-401
**** STREAM # 11

00:42:46 7- 20- 1984
**** STREAM ID OUT OF RANGE...CAR-401
**** STREAM # 10

01:00:09 7- 20- 1984
LEAKS DURING THE PAST HOUR:
AREA 1 (CAR-171,PTS 1,2,3) = 0 LEAKS
AREA 2 (CAR-171,PTS 1,4) = 0 LEAKS
AREA 3 (CAR-171,PTS 4,9) = 0 LEAKS
AREA 4 (CAR-171,PTS 1,5) = 0 LEAKS
AREA 5 (CAR-171,PT 6) = 0 LEAKS
AREA 6 (CAR-171,PT 7) = 0 LEAKS
AREA 7 (CAR-171,PT 8) = 0 LEAKS
AREA 8 (CAR-171,PT 10) = 0 LEAKS
AREA 9 (CAR-401,PT 1) = 0 LEAKS
AREA 10 (CAR-401,PT 2) = 0 LEAKS
AREA 11 (CAR-401,PTS 3,4,5,8) = 0 LEAKS
AREA 12 (CAR-401,PT 6) = 0 LEAKS
AREA 13 (CAR-401,PT 7) = 0 LEAKS
AREA 14 (CAR-401,PTS 9,10) = 0 LEAKS

(CCR 000021608

NUMBER OF TIMES OVER 10 PPM FOR EACH POINT:

POINT	PROCESS AREA	OFF-SITES	INCINERATOR
1	0	0	0
2	0	0	0
3	0	0	
4	0	0	
5	0	0	
6	0	0	
7	0	0	
8	1	0	
9	0	0	
10	0	0	

01:42:03 7- 20- 1984

**** HIGH VCM IN PROCESS AREA....POINT # 7
VCM CONCENTRATION = 18.1 PPM

01:48:00 7- 20- 1984

**** HIGH VCM IN INCINERATOR AREA....POINT # 1
VCM CONCENTRATION = 43.7 PPM

#	#1	#2
0148	43.7	43.7
until	20.2	20.0
0150:50	63.9	63.7

01:48:51 7- 20- 1984

**** HIGH VCM IN INCINERATOR AREA....POINT # 2
VCM CONCENTRATION = 43.7 PPM

$\frac{63.9}{30} = 2.13$	$\frac{63.7}{30} = 2.12$
--------------------------	--------------------------

01:49:59 7- 20- 1984

**** HIGH VCM IN INCINERATOR AREA....POINT # 1
VCM CONCENTRATION = 20.2 PPM

(CCR 000021609

01:50:50 7- 20- 1984
**** HIGH VCM IN INCINERATOR AREA....POINT # 2
VCM CONCENTRATION = 20.0 PPM

01:52:32 7- 20- 1984
**** STREAM ID OUT OF RANGE...CAR-401
**** STREAM # 11

01:52:49 7- 20- 1984
**** STREAM ID OUT OF RANGE...CAR-401
**** STREAM # 10

02:00:17 7- 20- 1984
LEAKS DURING THE PAST HOUR:
AREA 1 (CAR-171,PTS 1,2,3) = 0 LEAKS
AREA 2 (CAR-171,PTS 1,4) = 0 LEAKS
AREA 3 (CAR-171,PTS 4,9) = 0 LEAKS
AREA 4 (CAR-171,PTS 1,5) = 0 LEAKS
AREA 5 (CAR-171,PT 6) = 0 LEAKS
AREA 6 (CAR-171,PT 7) = 0 LEAKS
AREA 7 (CAR-171,PT 8) = 0 LEAKS
AREA 8 (CAR-171,PT 10) = 0 LEAKS
AREA 9 (CAR-401,PT 1) = 0 LEAKS
AREA 10 (CAR-401,PT 2) = 0 LEAKS
AREA 11 (CAR-401,PTS 3,4,5,8) = 0 LEAKS
AREA 12 (CAR-401,PT 6) = 0 LEAKS
AREA 13 (CAR-401,PT 7) = 0 LEAKS

CCR 000021610

NUMBER OF TIMES OVER 10 PPM FOR EACH POINT:

POINT	PROCESS AREA	OFF-SITES	INCINERATOR
1	0	0	2
2	0	0	2
3	0	0	
4	0	0	
5	0	0	
6	0	0	
7	1	0	
8	0	0	
9	0	0	
10	0	0	

02:48:08 7- 20- 1984

*** HIGH VCM IN PROCESS AREA....POINT # 3
VCM CONCENTRATION = 18.1 PPM

02:54:05 7- 20- 1984

*** HIGH VCM IN PROCESS AREA....POINT # 9
VCM CONCENTRATION = 13.3 PPM

02:56:55 7- 20- 1984

*** HIGH VCM IN PROCESS AREA....POINT # 2
VCM CONCENTRATION = 11.9 PPM

(CCR 000021611

LEAKS DURING THE PAST HOUR:

AREA 1 (CAR-171,PTS 1,2,3) = 0 LEAKS
 AREA 2 (CAR-171,PTS 1,4) = 0 LEAKS
 AREA 3 (CAR-171,PTS 4,9) = 0 LEAKS
 AREA 4 (CAR-171,PTS 1,5) = 0 LEAKS
 AREA 5 (CAR-171,PT 6) = 0 LEAKS
 AREA 6 (CAR-171,PT 7) = 0 LEAKS
 AREA 7 (CAR-171,PT 8) = 0 LEAKS
 AREA 8 (CAR-171,PT 10) = 0 LEAKS
 AREA 9 (CAR-401,PT 1) = 0 LEAKS
 AREA 10 (CAR-401,PT 2) = 0 LEAKS
 AREA 11 (CAR-401,PTS 3,4,5,8) = 0 LEAKS
 AREA 12 (CAR-401,PT 6) = 0 LEAKS
 AREA 13 (CAR-401,PT 7) = 0 LEAKS
 AREA 14 (CAR-401,PTS 9,10) = 0 LEAKS

NUMBER OF TIMES OVER 10 PPM FOR EACH POINT:

POINT	PROCESS AREA	OFF-SITES	INCINERATOR
1	0	0	0
2	1	0	0
3	1	0	
4	0	0	
5	0	0	
6	0	0	
7	0	0	
8	0	0	
9	1	0	
10	0	0	

03:02:56 7- 20- 1984

*** HIGH VCM IN PROCESS AREA....POINT # 8
 VCM CONCENTRATION = 41.7 PPM

03:06:03 7- 20- 1984

*** HIGH VCM IN PROCESS AREA....POINT # 1
 VCM CONCENTRATION = 18.8 PPM

03:06:09 7- 20- 1984

*** HIGH VCM IN INCINERATOR AREA....POINT # 1
 VCM CONCENTRATION = 43.7 PPM

CCR 000021612

03:06:56 7- 20- 1984
*** HIGH VCM IN INCINERATOR AREA....POINT # 2
VCM CONCENTRATION = 43.7 PPM

03:08:04 7- 20- 1984
*** HIGH VCM IN INCINERATOR AREA....POINT # 1
VCM CONCENTRATION = 43.7 PPM

03:08:55 7- 20- 1984
*** HIGH VCM IN INCINERATOR AREA....POINT # 2
VCM CONCENTRATION = 43.7 PPM

03:10:03 7- 20- 1984
*** HIGH VCM IN INCINERATOR AREA....POINT # 1
VCM CONCENTRATION = 43.7 PPM

03:10:54 7- 20- 1984
*** HIGH VCM IN INCINERATOR AREA....POINT # 2
VCM CONCENTRATION = 43.7 PPM

(CCR 000021613

03:12:02 7- 20- 1984
**** HIGH VCM IN INCINERATOR AREA....POINT # 1
VCM CONCENTRATION = 43.7 PPM

	<u>#1</u>	<u>#2</u>
0306:09	43.7	43.7
until	43.7	43.7
0320:59	43.7	43.7
	43.7	43.7

03:12:53 7- 20- 1984
**** HIGH VCM IN INCINERATOR AREA....POINT # 2
VCM CONCENTRATION = 43.7 PPM

17.5	17.2
16.4	16.3
43.7	43.7
12.7	12.5
<u>265.1</u>	<u>264.5</u>

$$\frac{265.1}{30} = 8.84$$

$$\frac{264.5}{30} = 8.82$$

03:14:01 7- 20- 1984
**** HIGH VCM IN INCINERATOR AREA....POINT # 1
VCM CONCENTRATION = 17.5 PPM

03:14:52 7- 20- 1984
**** HIGH VCM IN PROCESS AREA....POINT # 10
VCM CONCENTRATION = 11.5 PPM

03:14:58 7- 20- 1984
**** HIGH VCM IN INCINERATOR AREA....POINT # 2
VCM CONCENTRATION = 17.2 PPM

(CCR 000021614

03:16:02 7- 20- 1984

**** HIGH VCM IN INCINERATOR AREA....POINT # 1
VCM CONCENTRATION = 16.4 FPM

03:16:53 7- 20- 1984

**** HIGH VCM IN INCINERATOR AREA....POINT # 2
VCM CONCENTRATION = 16.3 FPM

03:18:01 7- 20- 1984

**** HIGH VCM IN OFF-SITES AREA....POINT # 6
VCM CONCENTRATION = 10.7 FPM

03:18:07 7- 20- 1984

**** HIGH VCM IN INCINERATOR AREA....POINT # 1
VCM CONCENTRATION = 43.7 FPM

03:18:54 7- 20- 1984

**** HIGH VCM IN INCINERATOR AREA....POINT # 2
VCM CONCENTRATION = 43.7 FPM

(CCR 000021615

03:20:02 7- 20- 1984
*** HIGH VCM IN INCINERATOR AREA....POINT # 1
VCM CONCENTRATION = 12.7 PPM

03:20:53 7- 20- 1984
*** HIGH VCM IN PROCESS AREA....POINT # 6
VCM CONCENTRATION = 11.3 PPM

03:20:59 7- 20- 1984
*** HIGH VCM IN INCINERATOR AREA....POINT # 2
VCM CONCENTRATION = 12.5 PPM

03:24:02 7- 20- 1984
*** HIGH VCM IN PROCESS AREA....POINT # 9
VCM CONCENTRATION = 11.8 PPM

03:29:59 7- 20- 1984
*** HIGH VCM IN PROCESS AREA....POINT # 5
VCM CONCENTRATION = 20.3 PPM

(CCR 000021616

03:39:03 7- 20- 1984

**** HIGH VCM IN PROCESS AREA....POINT # 4
VCM CONCENTRATION = 15.2 PPM

04:00:07 7- 20- 1984

LEAKS DURING THE PAST HOUR:

AREA 1	(CAR-171,PTS 1,2,3) =	0 LEAKS
AREA 2	(CAR-171,PTS 1,4) =	0 LEAKS
AREA 3	(CAR-171,PTS 4,9) =	0 LEAKS
AREA 4	(CAR-171,PTS 1,5) =	0 LEAKS
AREA 5	(CAR-171,PT 6) =	0 LEAKS
AREA 6	(CAR-171,PT 7) =	0 LEAKS
AREA 7	(CAR-171,PT 8) =	0 LEAKS
AREA 8	(CAR-171,PT 10) =	0 LEAKS
AREA 9	(CAR-401,PT 1) =	0 LEAKS
AREA 10	(CAR-401,PT 2) =	0 LEAKS
AREA 11	(CAR-401,PTS 3,4,5,8) =	0 LEAKS
AREA 12	(CAR-401,PT 6) =	0 LEAKS
AREA 13	(CAR-401,PT 7) =	0 LEAKS
AREA 14	(CAR-401,PTS 9,10) =	0 LEAKS

NUMBER OF TIMES OVER 10 PPM FOR EACH POINT:

POINT	PROCESS AREA	OFF-SITES	INCINERATOR
1	1	0	8
2	0	0	8
3	0	0	
4	1	0	
5	1	0	
6	1	1	
7	0	0	
8	1	0	
9	1	0	
10	1	0	

04:02:55 7- 20- 1984

LEAK IN OFF-SITES AREA 12

(CCR 000021617

AREA 14 (CAR-401,PTS 9,10) = 0 LEAKS

NUMBER OF TIMES OVER 10 PPM FOR EACH POINT:

POINT	PROCESS AREA	OFF-SITES	INCINERATOR
1	0	0	0
2	0	0	0
3	0	0	
4	0	0	
5	0	0	
6	0	1	
7	0	0	
8	0	0	
9	0	0	
10	0	0	

15:13:32 7- 19- 1984

***** HIGH FLAMMABILITY IN R-302 INLET *****

NOT REPORTABLE
<10ppm for all
hourly averages

15:23:27 7- 19- 1984

***** HIGH FLAMMABILITY IN R-302 INLET *****

15:35:51 7- 19- 1984

**** HIGH VCM IN INCINERATOR AREA....POINT # 1
VCM CONCENTRATION = 15.2 PPM

15:36:59 7- 19- 1984

**** HIGH VCM IN INCINERATOR AREA....POINT # 2
VCM CONCENTRATION = 13.3 PPM

(CCR 000021618

15:37:50 7- 19- 1984
 **** HIGH VCM IN INCINERATOR AREA....POINT # 1
 VCM CONCENTRATION = 13.2 PPM

15:38:58 7- 19- 1984
 **** HIGH VCM IN INCINERATOR AREA....POINT # 2
 VCM CONCENTRATION = 15.4 PPM

#1	#2
15.2	13.3
13.2	15.4
15.2	12.2
12.0	11.2
11.1	12.1
12.8	11.7
12.1	12.6
11.9	12.0
<u>103.5</u>	<u>100.5</u>

1535
 until
 1559

15:39:49 7- 19- 1984
 **** HIGH VCM IN INCINERATOR AREA....POINT # 1
 VCM CONCENTRATION = 15.2 PPM

$$\frac{103.5}{30} = 3.45$$

$$\frac{100.5}{30} = 3.35$$

15:40:57 7- 19- 1984
 **** HIGH VCM IN INCINERATOR AREA....POINT # 2
 VCM CONCENTRATION = 12.2 PPM

15:41:48 7- 19- 1984
 **** HIGH VCM IN INCINERATOR AREA....POINT # 1
 VCM CONCENTRATION = 12.0 PPM

15:42:56 7- 19- 1984
**** HIGH VCM IN INCINERATOR AREA....POINT # 2
VCM CONCENTRATION = 11.2 PPM

15:43:47 7- 19- 1984
**** HIGH VCM IN INCINERATOR AREA....POINT # 1
VCM CONCENTRATION = 11.1 PPM

15:50:52 7- 19- 1984
**** HIGH VCM IN INCINERATOR AREA....POINT # 2
VCM CONCENTRATION = 12.1 PPM

15:52:51 7- 19- 1984
**** HIGH VCM IN INCINERATOR AREA....POINT # 2
VCM CONCENTRATION = 11.7 PPM

15:53:59 7- 19- 1984
**** HIGH VCM IN INCINERATOR AREA....POINT # 1
VCM CONCENTRATION = 12.8 PPM

(CCR 000021620

**** HIGH VCM IN INCINERATOR AREA....POINT # 2
VCM CONCENTRATION = 12.6 PPM

15:55:58 7- 19- 1984
**** HIGH VCM IN INCINERATOR AREA....POINT # 1
VCM CONCENTRATION = 12.1 PPM

15:56:49 7- 19- 1984
**** HIGH VCM IN INCINERATOR AREA....POINT # 2
VCM CONCENTRATION = 12.0 PPM

15:59:56 7- 19- 1984
**** HIGH VCM IN INCINERATOR AREA....POINT # 1
VCM CONCENTRATION = 11.9 PPM

(CCR 000021621

16:00:07 7- 19- 1984
LEAKS DURING THE PAST HOUR:
AREA 1 (CAR-171,PTS 1,2,3) = 0 LEAKS
AREA 2 (CAR-171,PTS 1,4) = 0 LEAKS

AREA 4 (CAR-171,PTS 1,5) = 0 LEAKS
 AREA 5 (CAR-171,PT 6) = 0 LEAKS
 AREA 6 (CAR-171,PT 7) = 0 LEAKS
 AREA 7 (CAR-171,PT 8) = 0 LEAKS
 AREA 8 (CAR-171,PT 10) = 0 LEAKS
 AREA 9 (CAR-401,PT 1) = 0 LEAKS
 AREA 10 (CAR-401,PT 2) = 0 LEAKS
 AREA 11 (CAR-401,PTS 3,4,5,8) = 0 LEAKS
 AREA 12 (CAR-401,PT 6) = 0 LEAKS
 AREA 13 (CAR-401,PT 7) = 0 LEAKS
 AREA 14 (CAR-401,PTS 9,10) = 0 LEAKS

NUMBER OF TIMES OVER 10 PPM FOR EACH POINT:

POINT	PROCESS AREA	OFF-SITES	INCINERATOR
1	0	0	8
2	0	0	8
3	0	0	
4	0	0	
5	0	0	
6	0	0	
7	0	0	
8	0	0	
9	0	0	
10	0	0	

16:26:30 7- 19- 1984

***** HIGH FLAMMABILITY IN R-302 INLET *****

16:30:11 7- 19- 1984

***** HIGH FLAMMABILITY IN R-302 INLET *****

16:30:58 7- 19- 1984

**** HIGH VCM IN INCINERATOR AREA....POINT # 2
 VCM CONCENTRATION = 43.7 PPM

(CCR 000021622

16:31:49

7- 19- 1984

16:32:57 7- 19- 1984

**** HIGH VCM IN INCINERATOR AREA....POINT # 2
VCM CONCENTRATION = 43.7 FPM

16:33:48 7- 19- 1984

**** HIGH VCM IN INCINERATOR AREA....POINT # 1
VCM CONCENTRATION = 43.7 FPM

	#1	#2
	43.7	43.7
1630:58	43.7	43.7
until	19.1	18.9
1659:52	13.6	13.4
	93.2	119.7
	<u>133.3</u>	

16:34:43 7- 19- 1984

***** HIGH FLAMMABILITY IN R-302 INLET *****

$$\frac{133.3}{30} = 4.44$$

$$\frac{119.7}{30} = 3.99$$

16:39:49 7- 19- 1984

***** HIGH FLAMMABILITY IN R-302 INLET *****

CCR 000021623

16:41:48 7- 19- 1984

***** HIGH FLAMMABILITY IN R-302 INLET *****

16:43:47 7- 19- 1984
***** HIGH FLAMMABILITY IN R-302 INLET *****

16:44:38 7- 19- 1984
***** HIGH FLAMMABILITY IN R-302 INLET *****

16:45:59 7- 19- 1984
**** HIGH VCM IN INCINERATOR AREA....POINT # 1
VCM CONCENTRATION = 19.1 PPM

16:46:50 7- 19- 1984
**** HIGH VCM IN INCINERATOR AREA....POINT # 2
VCM CONCENTRATION = 18.9 PPM

16:47:58 7- 19- 1984
**** HIGH VCM IN INCINERATOR AREA....POINT # 1
VCM CONCENTRATION = 13.6 PPM

(CCR 000021624

16:48:49 7- 19- 1984
 **** HIGH VCM IN INCINERATOR AREA....POINT # 2
 VCM CONCENTRATION = 13.4 PPM

#1 #2
~~1645.59~~ 19.1 18.9
~~unlit~~ 13.6 13.4
~~1659.52~~ 13.2
~~45.9~~ 32.3

16:59:52 7- 19- 1984
 **** HIGH VCM IN INCINERATOR AREA....POINT # 1
 VCM CONCENTRATION = 13.2 PPM

1333 4.44
 30 119.7 = 3.9
 30

17:00:04 7- 19- 1984
 LEAKS DURING THE PAST HOUR:
 AREA 1 (CAR-171, PTS 1,2,3) = 0 LEAKS
 AREA 2 (CAR-171, PTS 1,4) = 0 LEAKS
 AREA 3 (CAR-171, PTS 4,9) = 0 LEAKS
 AREA 4 (CAR-171, PTS 1,5) = 0 LEAKS
 AREA 5 (CAR-171, PT 6) = 0 LEAKS
 AREA 6 (CAR-171, PT 7) = 0 LEAKS
 AREA 7 (CAR-171, PT 8) = 0 LEAKS
 AREA 8 (CAR-171, PT 10) = 0 LEAKS
 AREA 9 (CAR-401, PT 1) = 0 LEAKS
 AREA 10 (CAR-401, PT 2) = 0 LEAKS
 AREA 11 (CAR-401, PTS 3,4,5,8) = 0 LEAKS
 AREA 12 (CAR-401, PT 6) = 0 LEAKS
 AREA 13 (CAR-401, PT 7) = 0 LEAKS
 AREA 14 (CAR-401, PTS 9,10) = 0 LEAKS

CCR 000021625

NUMBER OF TIMES OVER 10 PPM FOR EACH POINT:

POINT	PROCESS AREA	OFF-SITES	INCINERATOR
1	0	0	5
2	0	0	4
3	0	0	

5	0	0
6	0	0
7	0	0
8	0	0
9	0	0
10	0	0

17:02:52 7- 19- 1984

**** HIGH VCM IN INCINERATOR AREA....POINT # 2
VCM CONCENTRATION = 17.8 PPM

17:04:00 7- 19- 1984

**** HIGH VCM IN INCINERATOR AREA....POINT # 1
VCM CONCENTRATION = 20.3 PPM

17:04:51 7- 19- 1984

**** HIGH VCM IN INCINERATOR AREA....POINT # 2
VCM CONCENTRATION = 20.1 PPM

17:09:57 7- 19- 1984

**** HIGH VCM IN INCINERATOR AREA....POINT # 1
VCM CONCENTRATION = 43.7 PPM

(CCR 000021626

17:10:48 7- 19- 1984

**** HIGH VCM IN INCINERATOR AREA....POINT # 2
VCM CONCENTRATION = 43.7 PPM

	#1	#2
1702:52		
until	20.3	17.8
1714:46	43.7	20.1
	43.7	43.7
	13.3	43.7
	<u>121</u>	<u>13.1</u>
		138.4
	$\frac{121}{30} = 4.03$	$\frac{138.4}{30} = 4.6$

17:11:56 7- 19- 1984
**** HIGH VCM IN INCINERATOR AREA....POINT # 1
VCM CONCENTRATION = 43.7 PPM

17:12:47 7- 19- 1984
**** HIGH VCM IN INCINERATOR AREA....POINT # 2
VCM CONCENTRATION = 43.7 PPM

17:13:55 7- 19- 1984
**** HIGH VCM IN INCINERATOR AREA....POINT # 1
VCM CONCENTRATION = 13.3 PPM

17:14:46 7- 19- 1984
**** HIGH VCM IN INCINERATOR AREA....POINT # 2
VCM CONCENTRATION = 13.1 PPM

(CCR 000021627

17:19:39 7- 19- 1984
***** HIGH FLAMMABILITY IN R-301 INLET *****

17:36:40 7- 19- 1984
***** HIGH FLAMMABILITY IN R-301 INLET *****

18:00:12 7- 19- 1984
LEAKS DURING THE PAST HOUR:
AREA 1 (CAR-171,PTS 1,2,3) = 0 LEAKS
AREA 2 (CAR-171,PTS 1,4) = 0 LEAKS
AREA 3 (CAR-171,PTS 4,9) = 0 LEAKS
AREA 4 (CAR-171,PTS 1,5) = 0 LEAKS
AREA 5 (CAR-171,PT 6) = 0 LEAKS
AREA 6 (CAR-171,PT 7) = 0 LEAKS
AREA 7 (CAR-171,PT 8) = 0 LEAKS
AREA 8 (CAR-171,PT 10) = 0 LEAKS
AREA 9 (CAR-401,PT 1) = 0 LEAKS
AREA 10 (CAR-401,PT 2) = 0 LEAKS
AREA 11 (CAR-401,PTS 3,4,5,8) = 0 LEAKS
AREA 12 (CAR-401,PT 6) = 0 LEAKS
AREA 13 (CAR-401,PT 7) = 0 LEAKS
AREA 14 (CAR-401,PTS 9,10) = 0 LEAKS

NUMBER OF TIMES OVER 10 PPM FOR EACH POINT:

POINT	PROCESS AREA	OFF-SITES	INCINERATOR
1	0	0	4
2	0	0	5
3	0	0	
4	0	0	
5	0	0	
6	0	0	
7	0	0	
8	0	0	
9	0	0	
10	0	0	

(CCR 000021628

18:12:42 7- 19- 1984
***** HIGH FLAMMABILITY IN R-301 INLET *****

18:14:24 7- 19- 1984
***** HIGH FLAMMABILITY IN R-301 INLET *****

18:28:17 7- 19- 1984
***** HIGH FLAMMABILITY IN R-301 INLET *****

18:33:06 7- 19- 1984
***** HIGH FLAMMABILITY IN R-301 INLET *****

18:35:05 7- 19- 1984
***** HIGH FLAMMABILITY IN R-301 INLET *****

18:36:30 7- 19- 1984
***** HIGH FLAMMABILITY IN R-301 INLET *****

(CCR 000021629

19:00:03 7- 19- 1984

LEAKS DURING THE PAST HOUR:

AREA 1	(CAR-171,PTS 1,2,3) =	0 LEAKS
AREA 2	(CAR-171,PTS 1,4) =	0 LEAKS
AREA 3	(CAR-171,PTS 4,9) =	0 LEAKS
AREA 4	(CAR-171,PTS 1,5) =	0 LEAKS
AREA 5	(CAR-171,PT 6) =	0 LEAKS
AREA 6	(CAR-171,PT 7) =	0 LEAKS
AREA 7	(CAR-171,PT 8) =	0 LEAKS
AREA 8	(CAR-171,PT 10) =	0 LEAKS
AREA 9	(CAR-401,PT 1) =	0 LEAKS
AREA 10	(CAR-401,PT 2) =	0 LEAKS
AREA 11	(CAR-401,PTS 3,4,5,8) =	0 LEAKS
AREA 12	(CAR-401,PT 6) =	0 LEAKS
AREA 13	(CAR-401,PT 7) =	0 LEAKS
AREA 14	(CAR-401,PTS 9,10) =	0 LEAKS

NUMBER OF TIMES OVER 10 PPM FOR EACH POINT:

POINT	PROCESS AREA	OFF-SITES	INCINERATOR
1	0	0	0
2	0	0	0
3	0	0	
4	0	0	
5	0	0	
6	0	0	
7	0	0	
8	0	0	
9	0	0	
10	0	0	

19:17:22 7- 19- 1984

***** HIGH FLAMMABILITY IN R-301 INLET *****

19:19:21 7- 19- 1984

***** HIGH FLAMMABILITY IN R-301 INLET *****

CCR 000021630

19:21:54 7- 19- 1984

***** HIGH FLAMMABILITY IN R-301 INLET *****

19:29:50 7- 19- 1984
***** HIGH FLAMMABILITY IN R-301 INLET *****

19:30:41 7- 19- 1984
***** HIGH FLAMMABILITY IN R-301 INLET *****

19:31:50 7- 19- 1984
***** HIGH FLAMMABILITY IN R-301 INLET *****

19:33:14 7- 19- 1984
***** HIGH FLAMMABILITY IN R-301 INLET *****

(CCR 000021631

19:35:13 7- 19- 1984
***** HIGH FLAMMABILITY IN R-301 INLET *****

19:35:47 7- 19- 1984
***** HIGH FLAMMABILITY IN R-301 INLET *****

19:36:55 7- 19- 1984
***** HIGH FLAMMABILITY IN R-301 INLET *****

19:37:29 7- 19- 1984
***** HIGH FLAMMABILITY IN R-301 INLET *****

19:37:59 7- 19- 1984
**** HIGH VCM IN INCINERATOR AREA....POINT # 1
VCM CONCENTRATION = 20.6 PPM

19:38:50 7- 19- 1984
**** HIGH VCM IN INCINERATOR AREA....POINT # 2
VCM CONCENTRATION = 20.4 PPM

CCR 000021632

**** HIGH VCM IN INCINERATOR AREA....POINT # 1
VCM CONCENTRATION = 11.6 PPM

19:40:49 7- 19- 1984
**** HIGH VCM IN INCINERATOR AREA....POINT # 2
VCM CONCENTRATION = 11.4 PPM

19:41:27 7- 19- 1984
***** HIGH FLAMMABILITY IN R-301 INLET *****

	#1	#2
1937:59	20.6	20.4
until	11.6	11.4
1940:49	32.2	31.8

19:43:10 7- 19- 1984
***** HIGH FLAMMABILITY IN R-301 INLET *****

$\frac{32.2}{30} = 1.07$	$\frac{31.8}{30} = 1.06$
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19:44:00 7- 19- 1984
***** HIGH FLAMMABILITY IN R-301 INLET *****

(CCR 000021633

19:46:16 7- 19- 1984
***** HIGH FLAMMABILITY IN R-301 INLET *****

19:47:41 7- 19- 1984
***** HIGH FLAMMABILITY IN R-301 INLET *****

19:48:33 7- 19- 1984
***** HIGH FLAMMABILITY IN R-301 INLET *****

19:49:57 7- 19- 1984
***** HIGH FLAMMABILITY IN R-301 INLET *****

19:50:31 7- 19- 1984
***** HIGH FLAMMABILITY IN R-301 INLET *****

CCR 000021634)

19:51:05 7- 19- 1984
***** HIGH FLAMMABILITY IN R-301 INLET *****

19:52:31 7- 19- 1984
***** HIGH FLAMMABILITY IN R-301 INLET *****

19:53:21 7- 19- 1984
***** HIGH FLAMMABILITY IN R-301 INLET *****

19:55:03 7- 19- 1984
***** HIGH FLAMMABILITY IN R-301 INLET *****

19:56:11 7- 19- 1984
***** HIGH FLAMMABILITY IN R-301 INLET *****

19:56:45 7- 19- 1984
***** HIGH FLAMMABILITY IN R-301 INLET *****

CCR 000021635)

19:57:36 7- 19- 1984
***** HIGH FLAMMABILITY IN R-301 INLET *****

19:59:01 7- 19- 1984
***** HIGH FLAMMABILITY IN R-301 INLET *****

19:59:52 7- 19- 1984
***** HIGH FLAMMABILITY IN R-301 INLET *****

20:00:11 7- 19- 1984
LEAKS DURING THE PAST HOUR:
AREA 1 (CAR-171,PTS 1,2,3) = 0 LEAKS
AREA 2 (CAR-171,PTS 1,4) = 0 LEAKS
AREA 3 (CAR-171,PTS 4,9) = 0 LEAKS
AREA 4 (CAR-171,PTS 1,5) = 0 LEAKS
AREA 5 (CAR-171,PT 6) = 0 LEAKS
AREA 6 (CAR-171,PT 7) = 0 LEAKS
AREA 7 (CAR-171,PT 8) = 0 LEAKS
AREA 8 (CAR-171,PT 10) = 0 LEAKS
AREA 9 (CAR-401,PT 1) = 0 LEAKS
AREA 10 (CAR-401,PT 2) = 0 LEAKS
AREA 11 (CAR-401,PTS 3,4,5,8) = 0 LEAKS
AREA 12 (CAR-401,PT 6) = 0 LEAKS
AREA 13 (CAR-401,PT 7) = 0 LEAKS
AREA 14 (CAR-401,PTS 9,10) = 0 LEAKS

NUMBER OF TIMES OVER 10 PPM FOR EACH POINT:

POINT	PROCESS AREA	OFF-SITES	INCINERATOR
1	0	0	2
2	0	0	2

CCR 000021636)