

1R - 265

REPORTS

DATE:

9/12/1997

American Environmental Network, Inc.

AEN I.D. 708390

September 12, 1997

RECEIVED

SEP 29 1997

NM-OCD
2040 S. PACHEO
SANTA FE, NM 87505

Environmental Bureau
Oil Conservation Division

Project Name TATUM PIT CLOSURES
Project Number TIPPERARY

Attention: WAYNE PRICE

On 8/30/97 American Environmental Network (NM), Inc. (ADHS License No. AZ0015), received a request to analyze non-aq samples. The samples were analyzed with EPA methodology or equivalent methods. The results of these analyses and the quality control data, which follow each set of analyses, are enclosed.

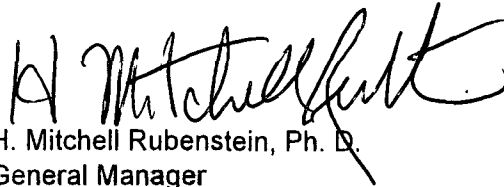
Chloride analyses were performed by American Environmental Network (FL) Inc., Pensacola, FL.

All other analyses were performed by American Environmental Network (NM) Inc., Albuquerque, NM.

If you have any questions or comments, please do not hesitate to contact us at (505)344-3777.



Kimberly D. McNeill
Project Manager



H. Mitchell Rubenstein, Ph. D.
General Manager

MR: mt

Enclosure

American Environmental Network, Inc.

CLIENT	: NM-OCD	AEN I.D.	: 708390
PROJECT #	: TIPPERARY	DATE RECEIVED	: 8/30/97
PROJECT NAME	: TATUM PIT CLOSURES	REPORT DATE	: 9/12/97

AEN ID. #	CLIENT DESCRIPTION	MATRIX	DATE COLLECTED
01	SOHIO ST#1 16' DEEP BOTTOM HOLE	NA	8/28/97
02	SOHIO"A"ST#1-12' DEEP BOTTOM HOLE	NA	8/28/97
03	SOHIO A ST(BACKGROUND)100'N-2' DEEP	NA	8/28/97
04	GS STATE#1 10'DEEP BOTTOM HOLE	NA	8/28/97
05	SAT #4-20'DEEP BOTTOM HOLE	NA	8/28/97

GENERAL CHEMISTRY RESULTS

418.1

CLIENT : NM-OCD AEN I.D. : 708390
PROJECT # : TIPPERARY DATE RECEIVED : 8/30/97
PROJECT NAME : TATUM PIT CLOSURES

SAMPLE			DATE	DATE	DATE	DIL.
ID. #	CLIENT I.D.	MATRIX	SAMPLED	EXTRACTED	ANALYZED	FACTOR
01	SOHIO ST#1 16' DEEP BOTTOM HOLE	NON-AQ	8/28/97	9/2/97	9/2/97	20
02	SOHIO"A"ST#1-12' DEEP BOTTOM HOLE	NON-AQ	8/28/97	9/2/97	9/2/97	10
03	SOHIO A ST(BACKGROUND)100'N-2' DEEP	NON-AQ	8/28/97	9/2/97	9/2/97	1
PARAMETER		DET. LIMIT	UNITS	01	02	03
PETROLEUM HYDROCARBONS, IR		20	MG/KG	2400	1600	53

CHEMIST NOTES:

N/A

American Environmental Network, Inc.

GENERAL CHEMISTRY RESULTS

418.1

CLIENT : NM-OCD AEN I.D. : 708390
PROJECT # : TIPPERARY DATE RECEIVED : 8/30/97
PROJECT NAME : TATUM PIT CLOSURES

SAMPLE			DATE	DATE	DATE	DIL.
ID. #	CLIENT I.D.	MATRIX	SAMPLED	EXTRACTED	ANALYZED	FACTOR
04	GS STATE#1 10'DEEP BOTTOM HOLE	NON-AQ	8/28/97	9/2/97	9/2/97	50
05	SAT #4-20'DEEP BOTTOM HOLE	NON-AQ	8/28/97	9/2/97	9/2/97	5
PARAMETER		DET. LIMIT	UNITS	04	05	
PETROLEUM HYDROCARBONS, IR		20	MG/KG	17000	840	

CHEMIST NOTES:

N/A

American Environmental Network, Inc.

GENERAL CHEMISTRY - REAGENT BLANK
418.1

CLIENT	: NM-OCD	AEN I.D.	: 708390
PROJECT #	: TIPPERARY	SAMPLE MATRIX	: NON-AQ
PROJECT NAME	: TATUM PIT CLOSURES	UNITS	: MG/KG

PARAMETER	AEN I.D.	SAMPLE RESULT
PETROLEUM HYDROCARBONS	090297	<20

CHEMIST NOTES:
N/A

American Environmental Network, Inc.

GENERAL CHEMISTRY - QUALITY CONTROL
418.1

CLIENT : NM-OCD AEN I.D. : 708390
PROJECT # : TIPPERARY SAMPLE MATRIX : NON-AQ
PROJECT NAME : TATUM PIT CLOSURES UNITS : MG/KG

PARAMETER	AEN I.D.	SAMPLE RESULT	DUP. RESULT	% RPD	SPIKED SAMPLE	SPIKE CONC.	% REC
PETROLEUM HYDROCARBONS	090297	<20	<20	N/A	145	150	97%

CHEMIST NOTES:

N/A

$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative Percent Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$

GAS CHROMATOGRAPHY RESULTS

TEST : BTEX, MTBE (EPA 8020)
CLIENT : NM-OCD
PROJECT # : TIPPERARY
PROJECT NAME : TATUM PIT CLOSURES

AEN I.D.: 708390

SAMPLE			DATE	DATE	DATE	DIL.
ID. #	CLIENT I.D.	MATRIX	SAMPLED	EXTRACTED	ANALYZED	FACTOR
01	SOHIO ST#1 16' Deep Bottom Hole	NON-AQ	8/28/97	9/2/97	9/3/97	1
02	SOHIO "A" ST#1-12' Deep Bottom Hole	NON-AQ	8/28/97	9/2/97	9/3/97	1
03	SOHIO A ST(Background) 100'N-2' DEEP	NON-AQ	8/28/97	9/2/97	9/2/97	1
PARAMETER		DET. LIMIT	UNITS	01	02	03
BENZENE		0.025	MG/KG	< 0.025	< 0.025	< 0.025
TOLUENE		0.025	MG/KG	< 0.025	< 0.025	< 0.025
ETHYLBENZENE		0.025	MG/KG	< 0.025	< 0.025	< 0.025
TOTAL XYLENES		0.025	MG/KG	0.091	< 0.025	< 0.025
METHYL-t-BUTYL ETHER		0.13	MG/KG	< 0.13	< 0.13	< 0.13

SURROGATE:

BROMOFLUOROBENZENE (%)

94

94

106

SURROGATE LIMITS (65 - 120)

CHEMIST NOTES:

N/A

GAS CHROMATOGRAPHY RESULTS

TEST : BTEX, MTBE (EPA 8020)
CLIENT : NM-OCD
PROJECT # : TIPPERARY
PROJECT NAME : TATUM PIT CLOSURES

AEN I.D.: 708390

SAMPLE		MATRIX	DATE	DATE	DATE	DIL.
ID. #	CLIENT I.D.		SAMPLED	EXTRACTED	ANALYZED	FACTOR
04	GS State#1 10'Deep Bottom Hole	NON-AQ	8/28/97	9/2/97	9/2/97	20
05	SAT #4-20'DEEP BOTTOM HOLE	NON-AQ	8/28/97	9/2/97	9/3/97	1
PARAMETER		DET. LIMIT	UNITS	04	05	
BENZENE		0.025	MG/KG	< 0.50	< 0.025	
TOLUENE		0.025	MG/KG	2.3	< 0.025	
ETHYLBENZENE		0.025	MG/KG	4.8	< 0.025	
TOTAL XYLENES		0.025	MG/KG	50	0.039	
METHYL-t-BUTYL ETHER		0.13	MG/KG	< 2.6	< 0.13	

SURROGATE:

BROMOFLUOROBENZENE (%)

**

94

SURROGATE LIMITS (65 - 120)

CHEMIST NOTES:

** = BFB NOT RECOVERABLE DUE TO MATRIX INTERFERENCE

GAS CHROMATOGRAPHY RESULTS
REAGENT BLANK

TEST	: BTEX, MTBE (EPA 8020)	AEN I.D.	: 708390
BLANK I. D.	: 090297	DATE EXTRACTED	: 9/2/97
CLIENT	: NM-OCD	DATE ANALYZED	: 9/2/97
PROJECT #	: TIPPERARY	SAMPLE MATRIX	: NON-AQ
PROJECT NAME	: TATUM PIT CLOSURES		

PARAMETER	UNITS	
BENZENE	MG/KG	<0.025
TOLUENE	MG/KG	<0.025
ETHYLBENZENE	MG/KG	<0.025
TOTAL XYLENES	MG/KG	<0.025
METHYL-t-BUTYL ETHER	MG/KG	<0.13

SURROGATE:

BROMOFLUOROBENZENE (%)

106

SURROGATE LIMITS: (80 - 120)

CHEMIST NOTES:

N/A

GAS CHROMATOGRAPHY RESULTS
REAGENT BLANK

TEST	: BTEX, MTBE (EPA 8020)	AEN I.D.	: 708390
BLANK I. D.	: 090397	DATE EXTRACTED	: NA
CLIENT	: NM-OCD	DATE ANALYZED	: 9/3/97
PROJECT #	: TIPPERARY	SAMPLE MATRIX	: NON-AQ
PROJECT NAME	: TATUM PIT CLOSURES		

PARAMETER	UNITS	
BENZENE	MG/KG	<0.025
TOLUENE	MG/KG	<0.025
ETHYLBENZENE	MG/KG	<0.025
TOTAL XYLENES	MG/KG	<0.025
METHYL-t-BUTYL ETHER	MG/KG	<0.13

SURROGATE:

BROMOFLUOROBENZENE (%)

101

SURROGATE LIMITS: (80 - 120)

CHEMIST NOTES:

N/A

GAS CHROMATOGRAPHY QUALITY CONTROL
MSMSD

TEST	: BTEX, MTBE (EPA 8020)	AEN I.D.	: 708390
MSMSD #	: 090297	DATE EXTRACTED	: 9/2/97
CLIENT	: NM-OCD	DATE ANALYZED	: 9/2/97
PROJECT #	: TIPPERARY	SAMPLE MATRIX	: NON-AQ
PROJECT NAME	: TATUM PIT CLOSURES	UNITS	: MG/KG

PARAMETER	SAMPLE RESULT	CONC SPIKE	SPIKED SAMPLE	% REC	DUP SPIKE	DUP % REC	RPD	REC LIMITS	RPD LIMITS
BENZENE	<0.025	1.00	0.97	97	0.97	97	0	(68 - 120)	20
TOLUENE	<0.025	1.00	0.86	86	0.89	89	3	(64 - 120)	20
ETHYLBENZENE	<0.025	1.00	0.93	93	0.95	95	2	(49 - 127)	20
TOTAL XYLENES	<0.025	3.00	2.88	96	2.91	97	1	(58 - 120)	20
METHYL-t-BUTYL ETHER	<0.13	2.00	1.82	91	1.82	91	0	(66 - 120)	20

CHEMIST NOTES:
N/A

$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative Percent Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$

GAS CHROMATOGRAPHY RESULTS

TEST : EPA 8015 MODIFIED (DIRECT INJECT)
CLIENT : NM-OCD
PROJECT # : TIPPERARY
PROJECT NAME : TATUM PIT CLOSURES

AEN I.D.: 708390

SAMPLE			DATE	DATE	DATE	DIL.
ID. #	CLIENT I.D.	MATRIX	SAMPLED	EXTRACTED	ANALYZED	FACTOR
01	SOHIO ST#1 16' DEEP BOTTOM HOLE	NON-AQ	8/28/97	9/4/97	9/4/97	1
02	SOHIO"A"ST#1-12' DEEP BOTTOM HOLE	NON-AQ	8/28/97	9/4/97	9/5/97	2
03	SOHIO A ST(BACKGROUND)100'N-2' DEEP	NON-AQ	8/28/97	9/4/97	9/4/97	1

PARAMETER	DET. LIMIT	UNITS	01	02	03
FUEL HYDROCARBONS, C6-C10	10	MG/KG	< 10	< 20	< 10
FUEL HYDROCARBONS, C10-C22	5.0	MG/KG	670	1100	26
FUEL HYDROCARBONS, C22-C36	5.0	MG/KG	440	810	34
CALCULATED SUM:			1110	1910	60

SURROGATE:

O-TERPHENYL (%) 123 108 100
SURROGATE LIMITS (66 - 151)

CHEMIST NOTES:

N/A

GAS CHROMATOGRAPHY RESULTS

TEST : EPA 8015 MODIFIED (DIRECT INJECT)
CLIENT : NM-OCD
PROJECT # : TIPPERARY
PROJECT NAME : TATUM PIT CLOSURES

AEN I.D.: 708390

SAMPLE			DATE	DATE	DATE	DIL.
ID. #	CLIENT I.D.	MATRIX	SAMPLED	EXTRACTED	ANALYZED	FACTOR
04	GS STATE#1 10'DEEP BOTTOM HOLE	NON-AQ	8/28/97	9/4/97	9/8/97	10
05	SAT #4-20'DEEP BOTTOM HOLE	NON-AQ	8/28/97	9/4/97	9/5/97	1

PARAMETER	DET. LIMIT	UNITS	04	05
FUEL HYDROCARBONS, C6-C10	10	MG/KG	2300	< 10
FUEL HYDROCARBONS, C10-C22	5.0	MG/KG	7000	360
FUEL HYDROCARBONS, C22-C36	5.0	MG/KG	3300	320
CALCULATED SUM:			12600	680

SURROGATE:
O-TERPHENYL (%) 124 103
SURROGATE LIMITS (66 - 151)

CHEMIST NOTES:
N/A

GAS CHROMATOGRAPHY RESULTS

REAGENT BLANK

TEST	: EPA 8015 MODIFIED (DIRECT INJECT)	AEN I.D.	: 708390
BLANK I.D.	: 090497	DATE EXTRACTED	: 9/4/97
CLIENT	: NM-OCD	DATE ANALYZED	: 9/4/97
PROJECT #	: TIPPERARY	SAMPLE MATRIX	: NON-AQ
PROJECT NAME	: TATUM PIT CLOSURES		

PARAMETER	UNITS	
FUEL HYDROCARBONS, C6-C10	MG/KG	< 10
FUEL HYDROCARBONS, C10-C22	MG/KG	< 5.0
FUEL HYDROCARBONS, C22-C36	MG/KG	< 5.0

SURROGATE:

O-TERPHENYL (%)

97

SURROGATE LIMITS (80 - 151)

CHEMIST NOTES:

N/A

GAS CHROMATOGRAPHY QUALITY CONTROL
MSMSD

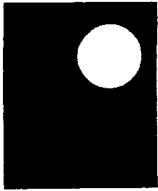
TEST	: EPA 8015 MODIFIED (DIRECT INJECT)	AEN I.D.	:	708390
MSMSD #	: 090497	DATE EXTRACTED	:	9/4/97
CLIENT	: NM-OCD	DATE ANALYZED	:	9/4/97
PROJECT #	: TIPPERARY	SAMPLE MATRIX	:	NON-AQ
PROJECT NAME	: TATUM PIT CLOSURES	UNITS	:	MG/KG

PARAMETER	SAMPLE RESULT	CONC SPIKE	SPIKED SAMPLE	% REC	DUP SPIKE	DUP % REC	RPD	REC LIMITS	RPD LIMITS
FUEL HYDROCARBONS	<5.0	100	103	103	93	93	10	(56 - 148)	20

CHEMIST NOTES:
N/A

$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative Percent Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$

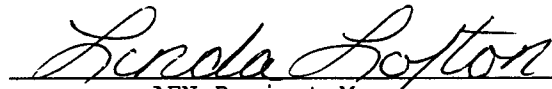


American Environmental Network, Inc.

11 EAST OLIVE ROAD • PENSACOLA, FL 32514 • (904) 474-1001

SIGNATURE PAGE

Reviewed by:


AEN Project Manager

Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
ALBUQUERQUE, NEW MEXICO

Project Name: N.M. OCD
Project Number: 708390
Project Location: TATUM PIT CLOSURES
Accession Number: 708550

Project Manager: KIM MCNEILL
Sampled By: N/S

Analysis Report

Analysis: Group of Single Wetchem

Accession:	708550
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	708390
Project Name:	N.M. OCD
Project Location:	TATUM PIT CLOSURES
Department:	WET CHEM

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Date 09-Sep-97

"FINAL REPORT FORMAT - MULTIPLE"

Accession: 708550
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 708390
Project Name: N.M. OCD
Project Location: TATUM PIT CLOSURES
Test: Group of Single Wetchem
QcLevel: II

Parameter:	Unit:	Result:	R.L:	Batch:	Q:
Client ID: 708390-01			Lab ID: 001		
CHLORIDE (325.3)	MG/KG	740	50	CIS013	
Comments:					
Client ID: 708390-02			Lab ID: 002		
CHLORIDE (325.3)	MG/KG	2200	50	CIS013	
Comments:					
Client ID: 708390-03			Lab ID: 003		
CHLORIDE (325.3)	MG/KG	230	50	CIS013	
Comments:					
Client ID: 708390-04			Lab ID: 004		
CHLORIDE (325.3)	MG/KG	120	50	CIS013	
Comments:					
Client ID: 708390-05			Lab ID: 005		
CHLORIDE (325.3)	MG/KG	610	50	CIS013	
Comments:					

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Date 09-Sep-97

"FINAL REPORT FORMAT - MULTIPLE"

Accession: 708550
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 708390
Project Name: N.M. OCD
Project Location: TATUM PIT CLOSURES
Test: Group of Single Wetchem

Client ID:	Lab Matrix: ID:	Date/Time Sampled:	Date Received:
708390-01	001 SOIL	28-AUG-97 1136	03-SEP-97
708390-02	002 SOIL	28-AUG-97 1208	03-SEP-97
708390-03	003 SOIL	28-AUG-97 1234	03-SEP-97
708390-04	004 SOIL	28-AUG-97 1310	03-SEP-97
708390-05	005 SOIL	28-AUG-97 1400	03-SEP-97

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Date 09-Sep-97

"Method Report Summary"

Accession Number: 708550
Client: AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number: 708390
Project Name: N.M. OCD
Project Location: TATUM PIT CLOSURES
Test: Group of Single Wetchem

Client Sample Id:	Parameter:	Unit:	Result:
708390-01	CHLORIDE (325.3)	MG/KG	740
708390-02	CHLORIDE (325.3)	MG/KG	2200
708390-03	CHLORIDE (325.3)	MG/KG	230
708390-04	CHLORIDE (325.3)	MG/KG	120
708390-05	CHLORIDE (325.3)	MG/KG	610

Quality Control Report

Analysis: Group of Single Wetchem

Accession:	708550
Client:	AMERICAN ENVIRONMENTAL NETWORK (NEW MEXICO) INC.
Project Number:	708390
Project Name:	N.M. OCD
Project Location:	TATUM PIT CLOSURES
Department:	WET CHEM

[0] Page 1
Date 09-Sep-97

"WetChem Quality Control Report"

Parameter:	CHLORIDE
Batch Id:	CIS013
Blank Result:	<50
Anal. Method:	9252
Prep. Method:	N/A
Analysis Date:	08-SEP-97
Prep. Date:	08-SEP-97

Sample Duplication

Sample Dup:	708550-1
Rept Limit:	<50

Sample Result:	736.4
Dup Result:	744.4
Sample RPD:	1
Max RPD:	8
Dry Weight%	N/A

Matrix Spike

Sample Spiked:	708550-1
Rept Limit:	<50

Sample Result:	736.4
Spiked Result:	3613.2
Spike Added:	2750
% Recovery:	105
% Rec Limits:	89-109
Dry Weight%	N/A

ICV

ICV Result:	96.4
True Result:	100
% Recovery:	96
% Rec Limits:	90-110

LCS

LCS Result:	
True Result:	
% Recovery:	
% Rec Limits:	

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Date 09-Sep-97

----- Common Footnotes WetChem -----

N/A = NOT APPLICABLE.
N/S = NOT SUBMITTED.
N/C = SAMPLE AND DUPLICATE RESULTS ARE AT OR BELOW AEN REPORTING LIMIT;
THEREFORE, THE RPD IS "NOT CALCULABLE" AND NO CONTROL LIMITS APPLY.
N/D = NOT DETECTED.
R = REACTIVE
T = TOTAL
G = SAMPLE AND/OR DUPLICATE RESULT IS BELOW 5 X AEN REPORTING LIMIT AND
THE ABSOLUTE DIFFERENCE BETWEEN THE SAMPLE AND DUPLICATE RESULT IS AT
OR BELOW AEN REPORTING LIMIT; THEREFORE, THE RESULTS ARE "IN CONTROL".
Q = THE ANALYTICAL (POST-DISTILLATION) SPIKE IS REPORTED DUE TO PERCENT RECOVERY
BEING OUTSIDE ACCEPTANCE LIMITS ON THE MATRIX (PRE-DISTILLATION) SPIKE.
= ELEVATED REPORTING LIMIT DUE TO INSUFFICIENT SAMPLE.
+ = ELEVATED REPORTING LIMIT DUE TO DILUTION INTO CALIBRATION RANGE.
* = ELEVATED REPORTING LIMIT DUE TO MATRIX INTERFERENCE (DILUTION PRIOR DIGESTION
AND/OR ANALYSIS).
@ = ADJUSTED REPORTING LIMIT DUE TO SAMPLE MATRIX (DILUTION PRIOR TO DIGESTION
AND/OR ANALYSIS).
P = ANALYTICAL (POST DIGESTION) SPIKE.
I = DUPLICATE INJECTION.
& = AUTOMATED
F = SAMPLE SPIKED > 4 X SPIKE CONCENTRATION.
N/C+ = NOT CALCULABLE
H = SAMPLE AND/OR DUPLICATE RESULT IS BELOW 5 X AEN REPORTING LIMIT AND THE
ABSOLUTE DIFFERENCE BETWEEN THE RESULTS EXCEEDS THE AEN REPORTING
LIMIT; THEREFORE, THE RESULTS ARE "OUT OF CONTROL".
A = SAMPLE AND DUPLICATE RESULTS ARE "OUT OF CONTROL".
Z = THE SAMPLE RESULT FOR THE SPIKE IS BELOW THE REPORTING LIMIT. HOWEVER,
THIS RESULT IS REPORTED FOR ACCURATE QC CALCULATIONS.
NH= SAMPLE AND / OR DUPLICATE RESULT IS BELOW 5 X AEN REPORTING LIMIT
AND THE ABSOLUTE DIFFERENCE BETWEEN THE RESULTS EXCEEDS THE AEN
REPORTING LIMIT; THEREFORE, THE RESULTS ARE "OUT OF CONTROL".
SAMPLE IS NON-HOMOGENEOUS.
(*) = DETECTION LIMITS RAISED DUE TO CLP METHOD NOT REQUIRING A CONCENTRATION STEP FOR CN.
(CA) = SEE CORRECTIVE ACTIONS FORM.
**= MATRIX INTERFERENCE
SW-846, 3rd Edition, latest EPA-approved edition.
EPA 600/4-79-020, Revised March 1983.
STANDARD METHODS, For the Examination of Water and Wastewater, latest EPA-approved edition.
NIOSH Manual of Analytical Methods, 4th Edition.
ANNUAL BOOK OF ASTM STANDARDS, VOLUMES 11.01 and 11.02, latest EPA-approved edition.
METHODS FOR THE DETERMINATION OF INORGANIC SUBSTANCES IN ENVIRONMENTAL SAMPLES,
EPA600/R-93/100, AUGUST 1993
METHODS FOR SOIL ANALYSIS, PART 2, CHEMICAL AND MICROBIOLOGICAL PROPERTIES, 2ND EDITION.
AEN-PN USES THE MOST CURRENT PROMULGATED METHODS FROM THE REFERENCES LISTED ABOVE.

1. COLIFORM. COLIFORM PRECISION IS MEASURED BY THE ABSOLUTE DIFFERENCE BETWEEN
THE LOGARITHM OF COLONIES PER 100 MLS OF SAMPLE ON DUPLICATE PLATES.
2. PH. PH PRECISION IS MEASURED BY THE ABSOLUTE DIFFERENCE BETWEEN THE
SAMPLE AND DUPLICATE ANALYSIS.
3. FLASHPOINT. FLASHPOINT PRECISION IS MEASURED BY THE ABSOLUTE DIFFERENCE BETWEEN
THE SAMPLE AND DUPLICATE ANALYSIS.

RPD = RELATIVE PERCENT DIFFERENCE (OR DEVIATION).
RPT LMTS = REPORTING LIMITS BASED ON METHOD DETECTION LIMIT STUDIES.

DPH = DOLLY P. HWANG RB = REBECCA BROWN JL = JANET LECLEAR
MM = MIKE MCKENZIE ED = ESTHER DANTIN CR = CYNTHIA ROBERTS
PLD = PAULA L. DOUGHTY LV = LASSANDRA VON APPEN JTZ = JONATHAN T. ZIENTARSKI
RH = RICKY HAGENDORFER MG = MARY GUTIERREZ

American Environmental Network of Florida

PROJECT SAMPLE INSPECTION FORM

Lab Accession #: 708550

Date Received: 9/3/97

- | | |
|---|---|
| <p>1. Was there a Chain of Custody? ☒ Yes ☐ No*</p> <p>2. Was Chain of Custody properly filled out and relinquished? ☒ Yes ☐ No*</p> <p>3. Were samples received cold? ☒ Yes ☐ No* N/A
(Criteria: 1° - 4°C: AEN-SOP 1055)</p> <p>4. Were all samples properly labeled and identified? ☒ Yes ☐ No*</p> <p>5. Did samples require splitting? Yes* ☒ No
Req By: PM Client Other*</p> <p>6. Were samples received in proper containers for analysis requested? ☒ Yes ☐ No*</p> <p>7. Were all sample containers received intact? ☒ Yes ☐ No*</p> | <p>8. Were samples checked for preservative? (Check pH of all H₂O requiring preservative except VOA vials that require zero headspace)* Yes ☐ No* ☒ N/A</p> <p>9. Is there sufficient volume for analysis requested? ☒ Yes ☐ No*</p> <p>10. Were samples received within Holding Time? (REFER TO AEN-SOP 1040) ☒ Yes ☐ No*</p> <p>11. Is Headspace visible > ¼" in diameter in VOA vials?* If any headspace is evident, comment in out-of-control section. Yes* ☐ No ☒ N/A</p> <p>12. If sent, were matrix spike bottles returned? Yes ☐ No* ☒ N/A</p> <p>13. Was Project Manager notified of problems? (initials: _____) Yes ☒ No* ☐ N/A</p> |
|---|---|

Airbill Number(s): 295 1746 287

Shipped By: FEDEX

Cooler Number(s): THURS

Shipping Charges: N/A

Cooler Weight(s): 16

Cooler Temp(s) (°C): 16C
66K2

(LIST THERMOMETER NUMBER(S) FOR VERIFICATION)

Out of Control Events and Inspection Comments:

(USE BACK OF PSIFOR ADDITIONAL NOTES AND COMMENTS)

Inspected By: W. Syl Date: 9/3/97 Logged By: W. Syl Date: 9/3/97

- * Note all Out-of-Control and/or questionable events on Comment Section of this form.
- * Note who requested the splitting of samples on the Comment Section of this form.
- + All preservatives for the State of North Carolina, the State of New York, and other requested samples are to be recorded on the sheet provided to record pH results (AEN-SOP 938, section 2.2.9).
- * According to EPA, ¼" of headspace is allowed in 40 ml vials requiring volatile analysis, however, AEN makes it policy to record any headspace as out-of-control (AEN-SOP 938, section 2.2.12).



Interlab Chain of Custody

NETWORK PROJECT MANAGER: KIMBERLY D. McNEILL

COMPANY: American Environmental Network
ADDRESS: 2709-D Pan American Freeway, NE
Albuquerque, NM 87107

CLIENT PROJECT MANAGER:

Kim McNeill

SAMPLE ID	DATE	TIME	MATRIX	LAB ID
708390-01	8-28	1136	NA	
-02		1208		
-03		1234		
-04		1110		
-05		2:00		

ANALYSIS REQUEST

[illegible]

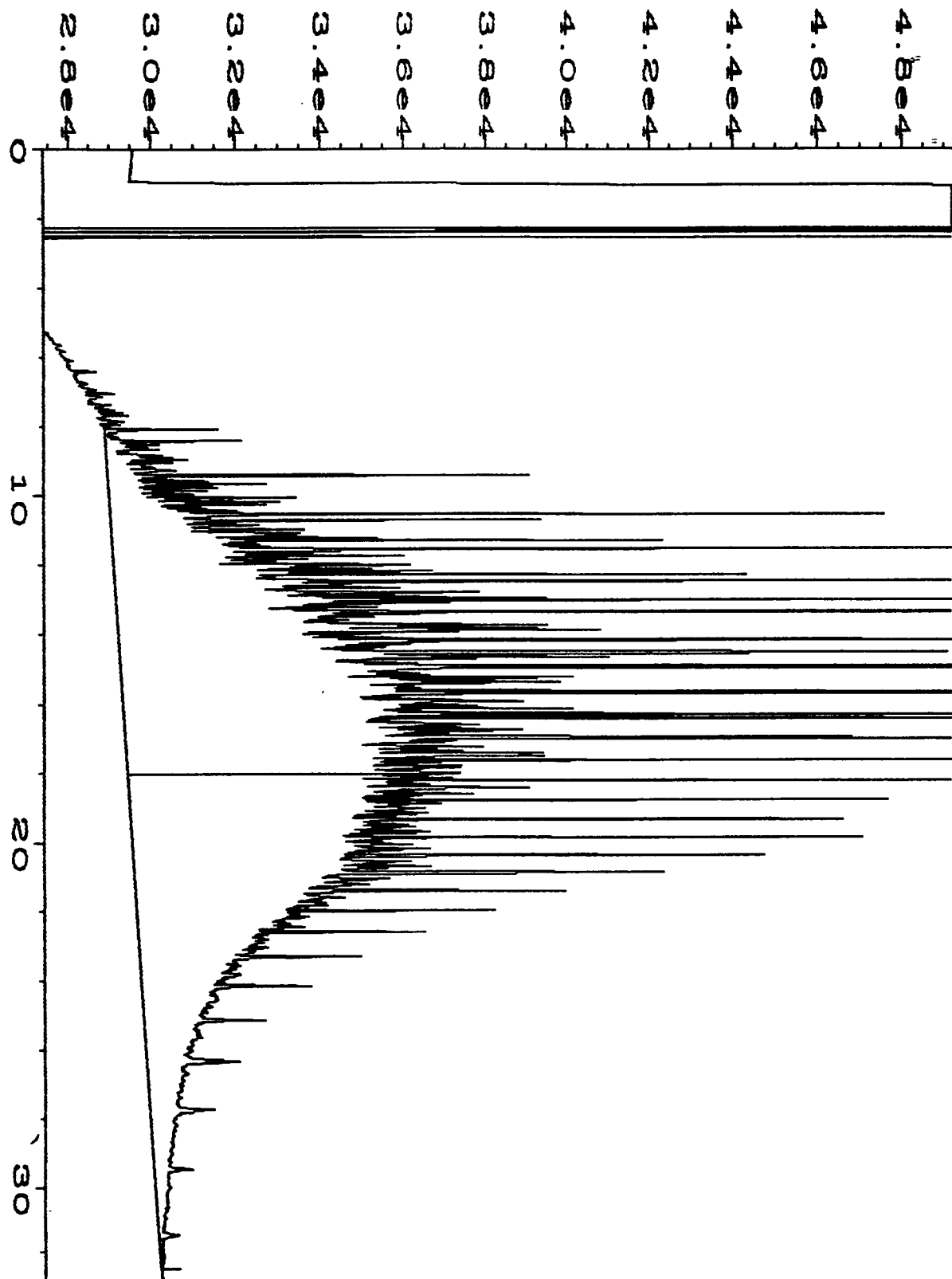
PROJECT INFORMATION		SAMPLE RECEIPT		SAMPLES SENT TO:		RELINQUISHED BY:		RELINQUISHED BY:	
PROJECT NUMBER	708390	TOTAL NUMBER OF CONTAINERS		SAN DIEGO		Signature:		Signature	
PROJECT NAME	N.M., OED	CHAIN OF CUSTODY SEALS		Paragon		Printed Name:		Printed Name	
CX LEVEL:	(SID) IV	INTACT?		RENTON	X	Date:		Date	
REQUIRED MS MSD BLANK		RECEIVED GOOD COND /COLD		PENSACOLA				Company	
IAI STANDARD	RUSH II	LAB NUMBER		PORTLAND		RECEIVED BY:		RECEIVED BY: (LAB)	2.
				PHOENIX		Signature:		Signature:	
						Time:		Time:	
						Printed Name:		Printed Name:	
						Date:		Date:	
						Company:		Company:	
TRUE DATE: 9-12-97									
RUSH SURCHARGE: _____									
CLIENT DISCOUNT: _____									
SPECIAL CERTIFICATION REQUIRED: I YES I NO									

DATE: Aug 28, 1977 PAGE: 1 OF 1

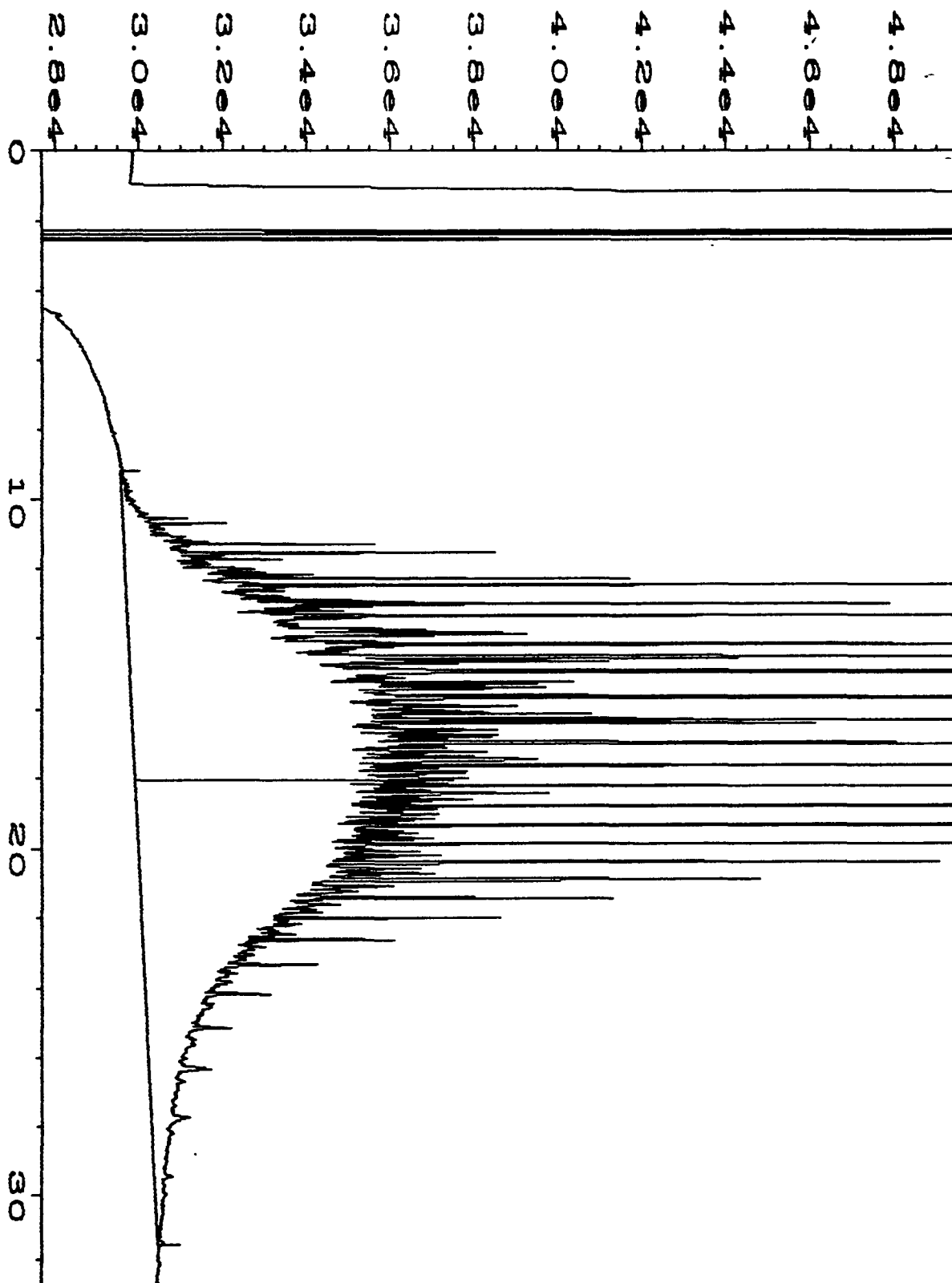
NUMBER OF CONTAINERS

1

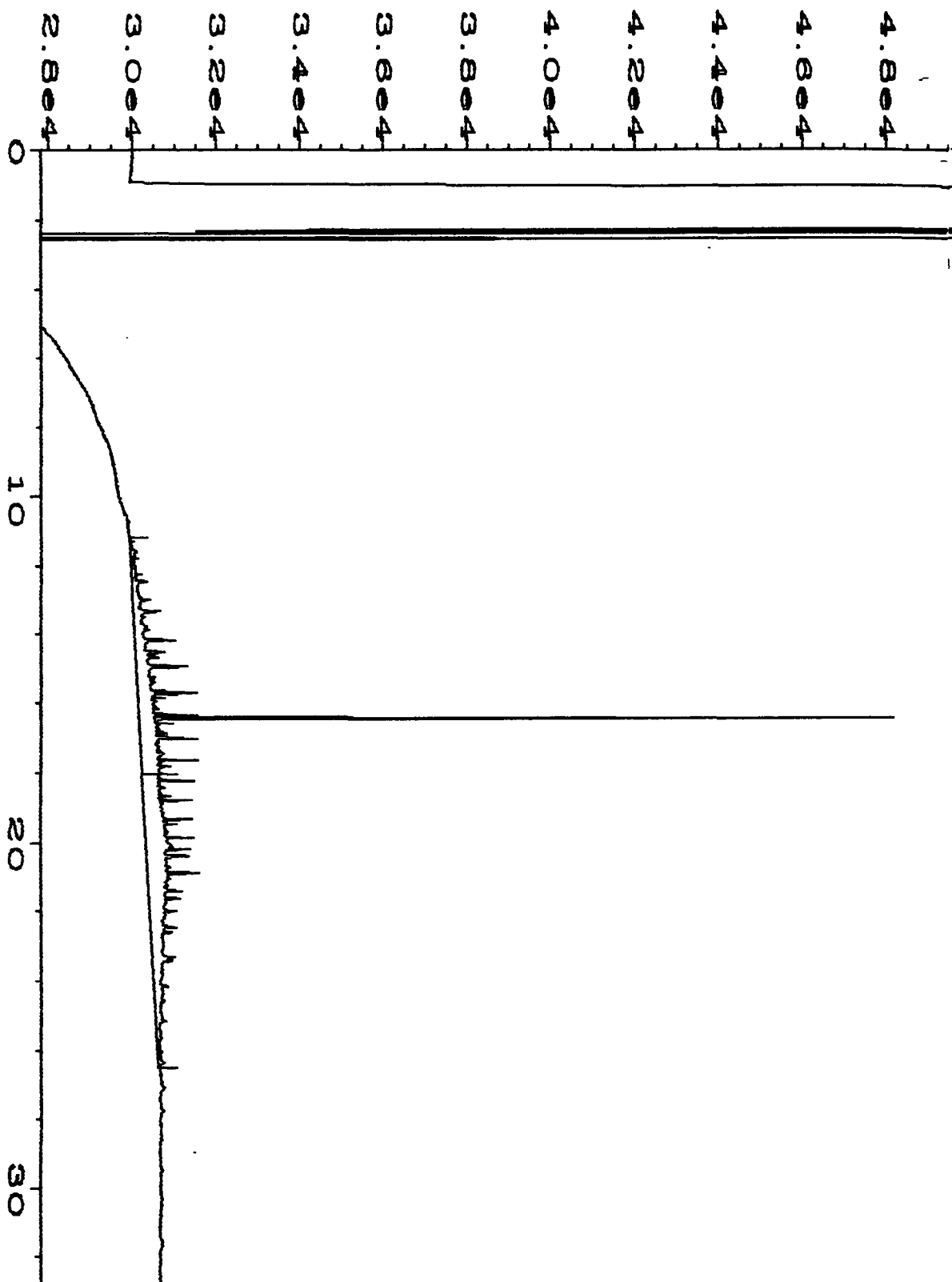
SHADED AREAS ARE FOR LAB USE ONLY.



Data File Name	: C:\HPCHEM\1\DATA\04SEPT97\008F0301.D	Page Number	: 1
Operator	: AEN NM GC #1 FID DI	Vial Number	: 8
Instrument	: GC#1 5890	Injection Number	: 1
Sample Name	: 708390-01	Sequence Line	: 3
Run Time Bar Code:		Instrument Method:	SDF0820.MTH
Acquired on	: 04 Sep 97 05:47 PM	Analysis Method	: SDF0820.MTH
Report Created on:	08 Sep 97 11:08 AM		

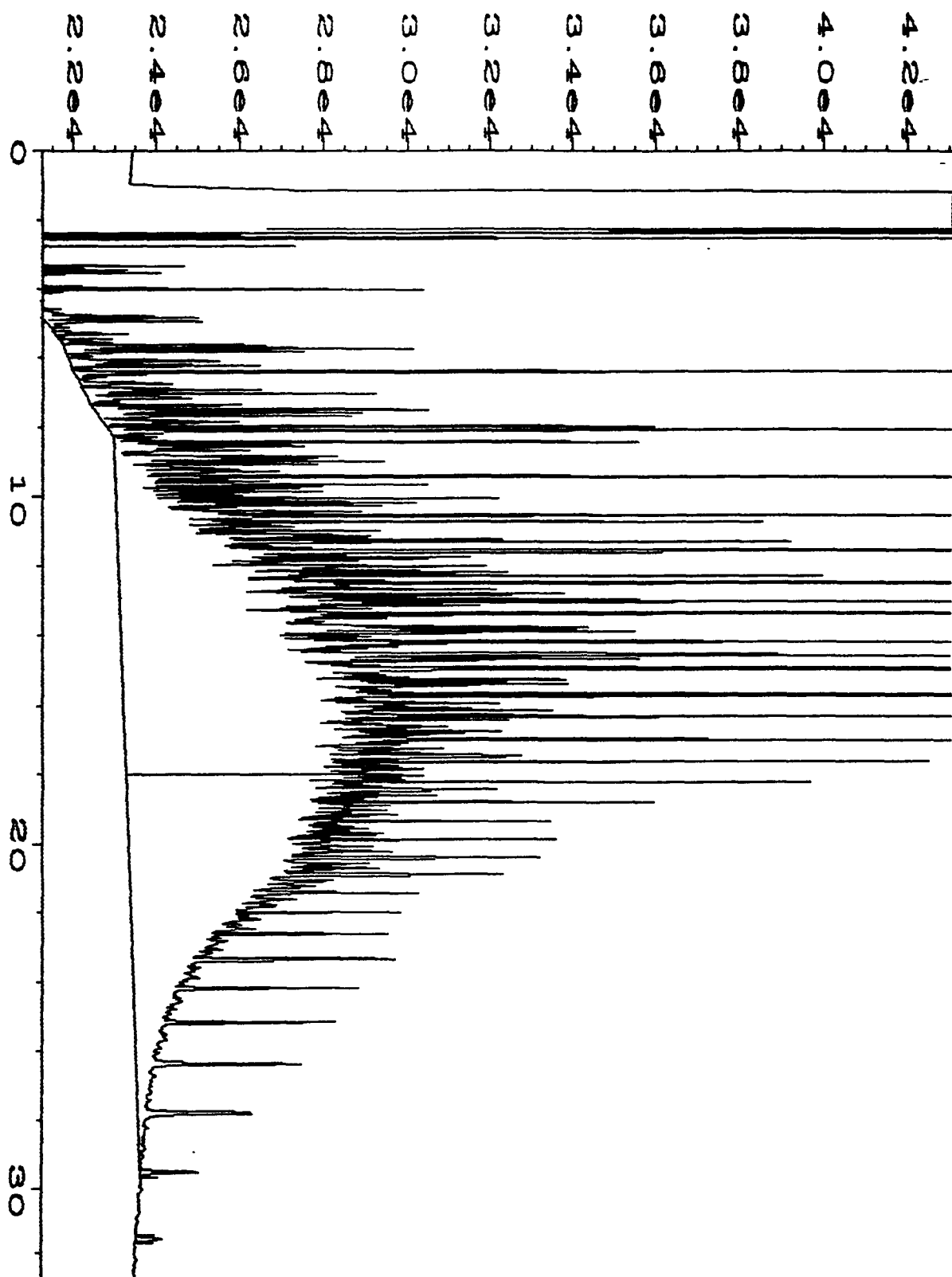


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Operator	: AEN NM GC #1 FID DI	Vial Number	: 6
Instrument	: INSTRUMEN	Injection Number	: 1
Sample Name	: 708390-02 *2	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	SDF0820.MTH
Acquired on	: 05 Sep 97 04:54 PM	Analysis Method	: SDF0820.MTH
Report Created on:	08 Sep 97 11:35 AM		



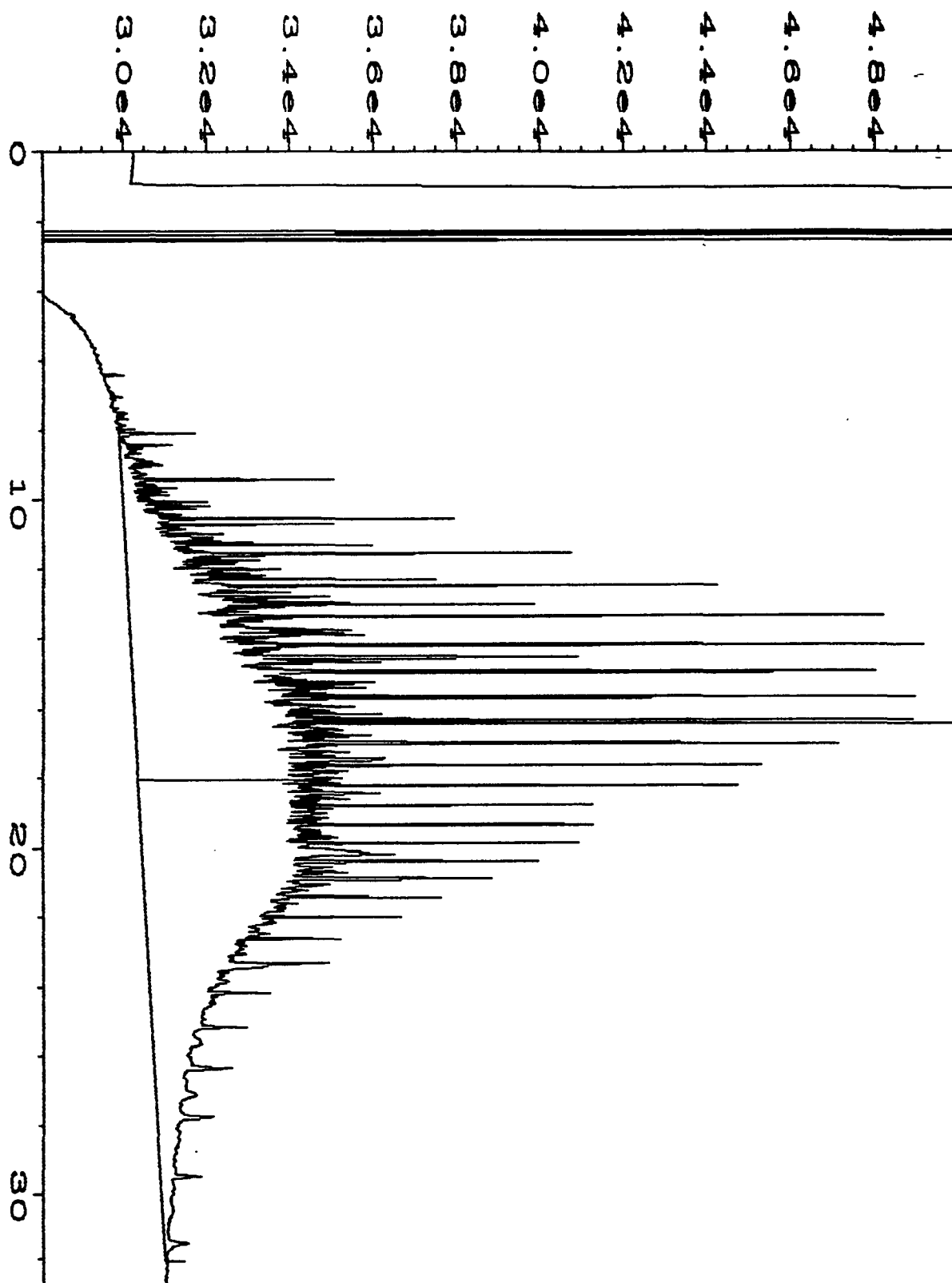
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Data File Name	: C:\HPCHEM\1\DATA\04SEPT97\010F0301.D	Page Number	: 1
Operator	: AEN NM GC #1 FID DI	Vial Number	: 10
Instrument	: GC#1 5890	Injection Number	: 1
Sample Name	: 708390-03	Sequence Line	: 3
Run Time Bar Code:		Instrument Method:	SDF0820.MTH
Acquired on	: 04 Sep 97 07:18 PM	Analysis Method	: SDF0820.MTH
Report Created on:	08 Sep 97 01:07 PM		



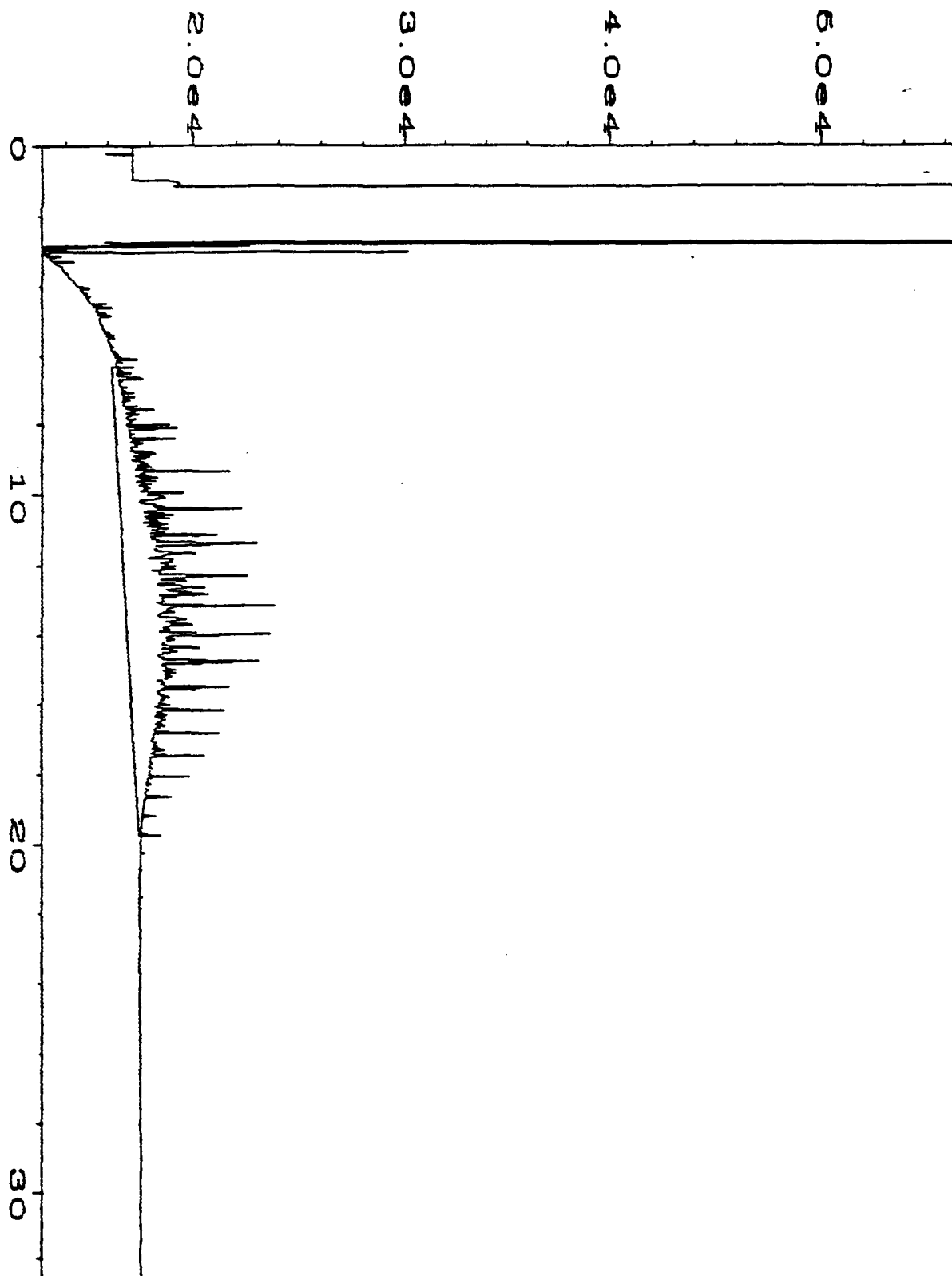
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Data File Name	: C:\HPCHEM\1\DATA\08SEPT97\004F0301.D	Page Number	: 1
Operator	: AEN NM GC #1 FID DI	Vial Number	: 4
Instrument	: INSTRUMEN	Injection Number	: 1
Sample Name	: 708390-04 *10	Sequence Line	: 3
Run Time Bar Code:		Instrument Method:	SDF0820.MTH
Acquired on	: 08 Sep 97 12:52 PM	Analysis Method	: RTBRKDN2.MTH
Report Created on:	08 Sep 97 02:01 PM		



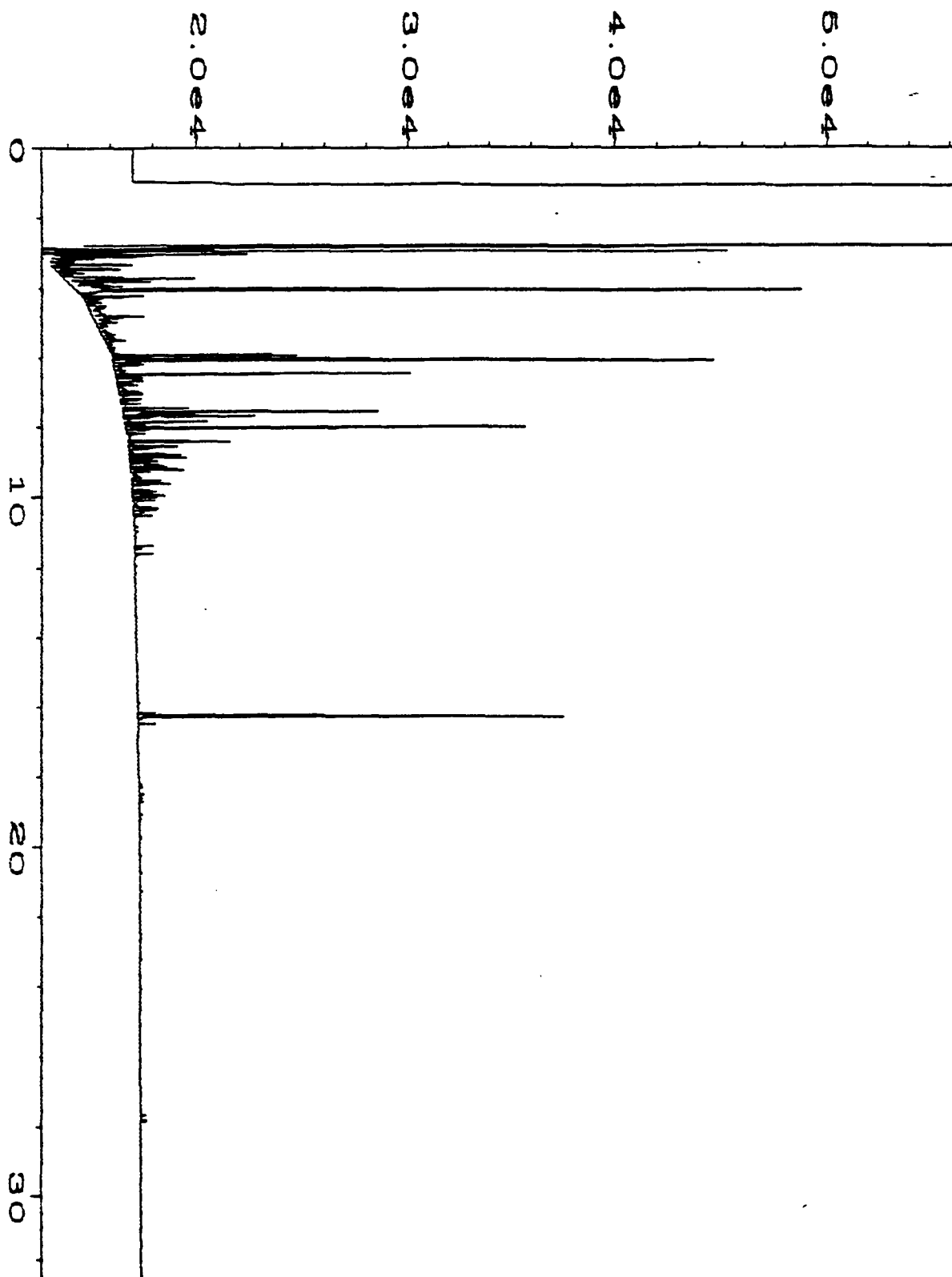
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Data File Name	: C:\HPCHEM\1\DATA\05SEPT97\009F0101.D	Page Number	: 1
Operator	: AEN NM GC #1 FID DI	Vial Number	: 9
Instrument	: INSTRUMEN	Injection Number	: 1
Sample Name	: 708390-05	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	SDF0820.MTH
Acquired on	: 05 Sep 97 07:10 PM	Analysis Method	: SDF0820.MTH
Report Created on:	08 Sep 97 12:21 PM		



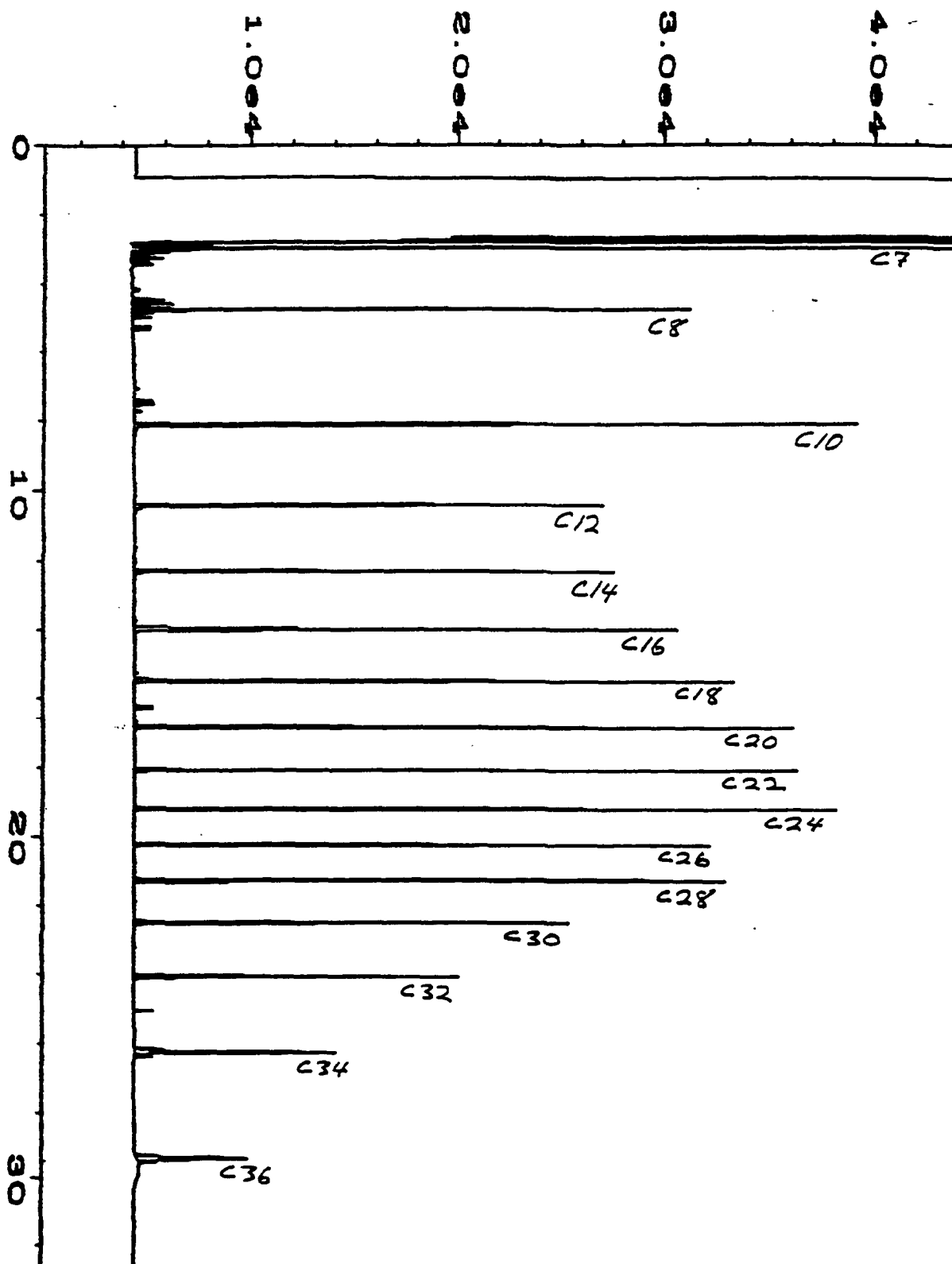
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Instrument	: GC#: 5890	Injection Number	: 1
Sample Name	: GC3-96-06 DSL	Sequence Line	: 1
Run Time Bar Code:		Instrument Method	: SDF0613.MTH
Acquired on:	30 Sep 96 03:19 PM	Analysis Method	: RTBRKDN1.MTH
Report Created on:	01 Oct 96 09:08 AM		



user modified

Data File Name	: C:\HPCHEM\1\DATA\30SEP96\004F0201.D	Page Number	: 1
Operator	: MC & JE	Vial Number	: 4
Instrument	: GC#1 5890	Injection Number	: 1
Sample Name	: GC3-95-10 GAS	Sequence Line	: 2
Run Time Bar Code:		Instrument Method:	SGF0613.MTH
Acquired on:	30 Sep 96 04:06 PM	Analysis Method	: SGF0613.MTH
Report Created on:	01 Oct 96 09:11 AM		



Data File Name	: C:\HPCHEM\1\DATA\11APR96\004F0101.D	Page Number	: 1
Operator	: DJ	Vial Number	: 4
Instrument	: GC#1 5890	Injection Number	: 1
Sample Name	: RET TIME STAND	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	: SDF0311.NTH
Acquired on	: 11 Apr 96 10:17 AM	Analysis Method	: SDF0311.NTH
Report Created on:	: 11 Apr 96 01:53 PM		