

3R - 194

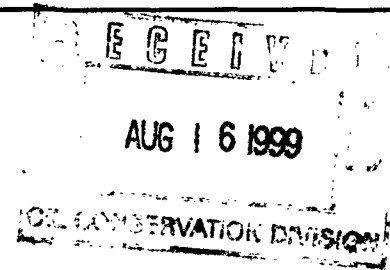
REPORTS

DATE:

8/13/1999

Certified Mail: #Z 211 324 159

August 13, 1999



Mr. William C. Olson
New Mexico Oil Conservation Division
2040 S. Pacheco
Santa Fe, NM 87504

**RE: WORK PLAN FOR THE POTENTIAL SOIL CONTAMINATION INVESTIGATION AND
MONITORING WELL INSTALLATION AT THE JAQUEZ COM E #1 AND C #1**

Dear Mr. Olson:

Pursuant to the July 22, 1999 letter from the New Mexico Oil Conservation Division (OCD), El Paso Field Services (EPFS) hereby submits the following report and Work Plan for further investigation and monitoring well installation at the Jaquez E #1 and C #1.

BACKGROUND

On June 25, 1999 Mr. John Jaquez expressed concerns that he had encountered "blackened smelly soil at a depth of 8 - 12 inches". EPFS agreed an investigation should be initiated, sampling was scheduled, and Denny Foust of the district OCD office was notified.

RESULTS

On June 30, 1999 EPFS lab personnel and Denny Foust of the OCD met at the Jaquez site. Both EPFS and OCD personnel noted an area with gray soils in the east central portion of the field. An initial soil sample was collected in the center of the gray area at an approximate depth of 4 feet using a standard hand auger, as shown in Figure 1. An additional 4 samples were collected on 10-foot centers, radially at a depth of approximately 4 feet, to characterize the entire gray area. The depths of the samples were based on the depth to groundwater, which was approximately 4.5 feet below the ground surface. This depth was chosen as the most likely area of contamination, due to the fluctuation in ground water levels in the field. Based on historical groundwater elevation data, July would be considered a seasonal high for the groundwater in the area; therefore,

the saturated zone interface would be the most likely area to show signs of migrating contaminants. In addition to soil samples, groundwater was collected from an open auger hole (SB-05) to characterize the groundwater in the area. All samples were shipped under standard Chain of Custody procedures to Pinnacle Laboratories in Albuquerque, New Mexico. All soil samples were analyzed for benzene, toluene, ethylbenzene, and total xylenes (BTEX) by EPA method 8021 modified and total petroleum hydrocarbons by EPA method 8015 modified. All groundwater samples were analyzed for BTEX by EPA method 8021 modified. As presented in Table 1, the soil samples and groundwater sample (SB-01 – SB-05) from the gray area were below laboratory detection limits.

In addition to the reported gray area, EPFS sampled several locations north of the original remediation excavation area. Sample results from soil borings SB-06 and SB-09, at a depth of 4 feet, show levels above OCD clean-up standards for TPH and BTEX between M-03 and M-04. The area west of M-03 (SB-08), which was pointed out by Mrs. Jaquez as having discolored soils, showed BTEX and TPH concentrations below laboratory detection limits. An additional sample (SB-10) was collected between M-04 and M-01 to evaluate soil and groundwater conditions in the north central area of the field. The soil sample collected from saturated zone interface showed BTEX and TPH concentrations below laboratory detection limits. The groundwater collected from the open boring was over New Mexico Water Quality Control Commission (NMWQCC) standards. The soil and groundwater sample results are presented in Table 1 and copies of the laboratory reports are included as Attachment 1.

CONCLUSIONS

EPFS, along with Denny Foust of the OCD, made a best effort to sample in the area of concern. The area EPFS and OCD identified (SB-01 – SB-05) showed no evidence of hydrocarbon contamination.

Residual hydrocarbons remain in the unexcavated area north of the cornfield. This area was not originally excavated, due to the proximity to Citizens Ditch. Groundwater in the vicinity of SB-10 appears to have BTEX in excess of NMWQCC standards.

WORK PLAN FOR FURTHER INVESTIGATION

Garden Area South of Citizens Ditch

EPFS proposes to collect 8 additional soil samples across the excavated portion of the garden area, as shown in Figure 1. The soil samples will be collected using a standard hand auger. Soil samples will be screened with a PID every foot during the boring process. The soil interval with the highest PID headspace reading or the saturated zone

interface will be retained and analyzed for TPH and BTEX using EPA methods 8015 modified and 8021 modified respectively.

In addition to soil samples, EPFS will attempt to collect groundwater from five soil boring locations to evaluate the groundwater quality across the garden area. The soil borings will be collected by hand augering approximately 3 feet into the saturated zone and installing five feet of .010 inch slotted PVC screen and solid PVC riser to the surface. A minimum of 3 casing volumes of groundwater will be removed prior to collecting the groundwater sample. Each groundwater sample collected will be analyzed for BTEX by EPA method 8021 modified. Based on the results of the groundwater survey EPFS will evaluate the need for additional monitoring wells.

Meter Site Area North of Citizens Ditch

Based on existing data from the initial soil gas investigation and the latest groundwater gradient information EPFS proposes to install one additional groundwater monitoring well approximately 25-35 feet southwest of R-4 along the banks of Citizens Ditch. Based on existing soil gas data, soil and groundwater below standards exists 15-20 feet west R-4. The data shows, the groundwater gradient generally trends to the south – southwest; therefore, the area 25-35 southwest of R-04 should be outside the contaminated area along the Citizen's Ditch.

The monitoring well will be installed using a standard hollow stem auger drilling rig. The soil will be sampled and screened with a PID on a five-foot basis. The sample with the highest PID headspace reading or the saturated zone interface will be retained and analyzed for BTEX by method 8021 modified and TPH by method 8015 modified. The monitoring well will be constructed of 15 feet of 4 inch, .010 slot PVC screen and solid PVC riser, which will extend to the surface. The well screen will be placed so that five feet of screen is above the saturated zone to account for seasonal groundwater fluctuations. A 10-20 grade washed silica sand will be place in the annular space surrounding the well screen and will extend to approximately 2 feet above the well screen. An annular seal consisting of a minimum of 2 feet of bentonite chips will placed directly above the sand pack. The remaining annular space will be filled with a cement / bentonite grout, which will extend to the surface. The monitoring well will be completed with a locking steel well protector, 2'X2'X3" concrete well pad and 3 bumper posts.

Once the well has been installed it will be developed and sampled by removing a minimum of 3 casing volumes of groundwater. After pH, conductivity, and temperature of the groundwater in the monitoring well have stabilized, the groundwater will be sampled and analyzed for BTEX by method 8021 modified.

Mr. William C. Olson
New Mexico Oil Conservation Division
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A report summarizing the results from the soil and groundwater investigation will be submitted to the OCD at the conclusion of the project.

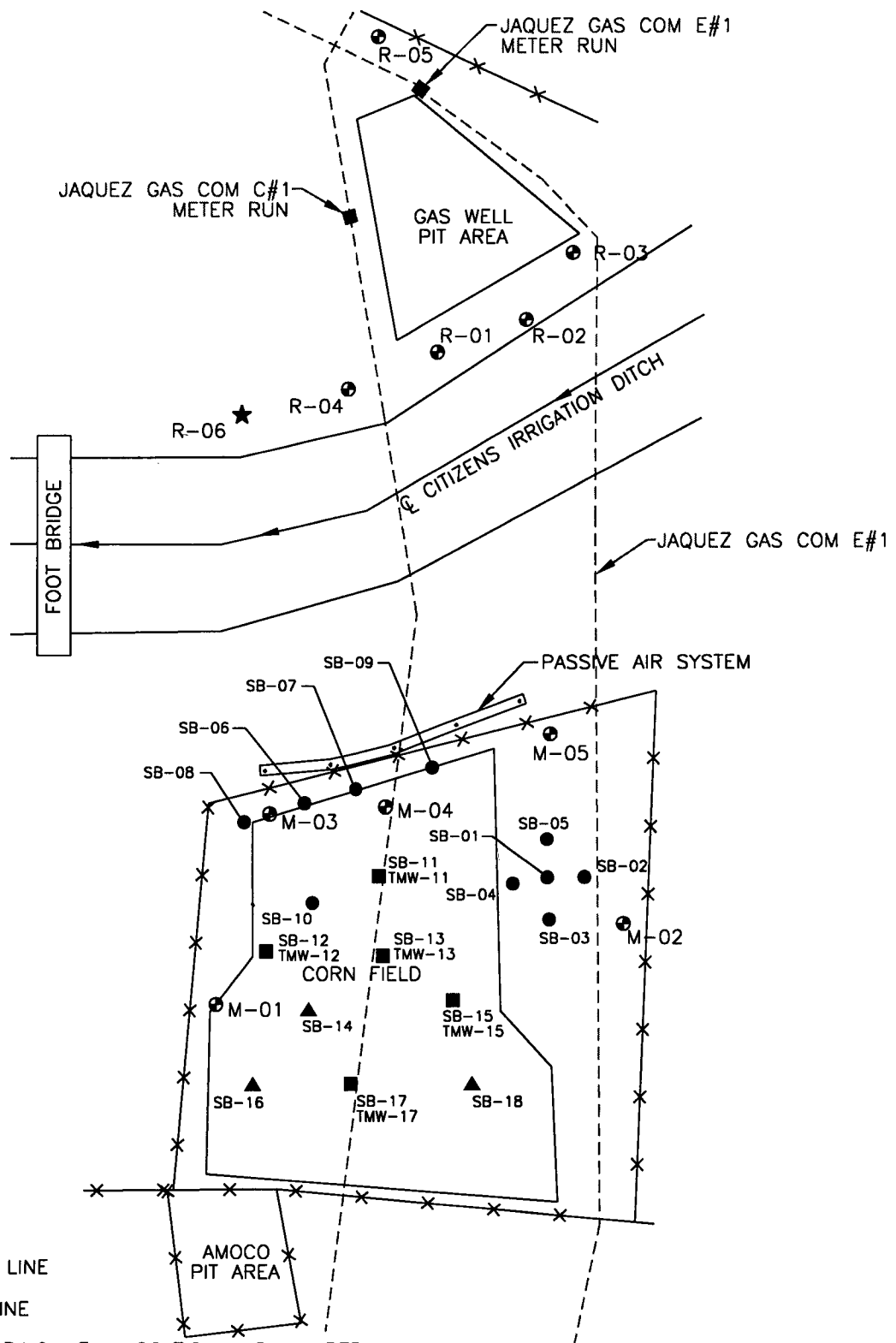
If you have any questions concerning the proposed Work Plan, please call me at (505) 599-2124.

Sincerely,



Scott T. Pope P.G.
Senior Environmental Scientist

Xc: Mr. Denny Foust, NMOCD, Aztec, w / enclosures; **Certified Mail # Z 211 324 160**
Mr. John Jaquez, w / enclosures; **Certified Mail # Z 211 324 161**



LEGEND

- x—x— FENCE LINE
- PIPE LINE
- M-01 MONITORING WELL LOCATION AND NUMBER
- SB-01 EXISTING SOIL BORING LOCATION
- ▲ SB-14 PROPOSED SOIL BORING LOCATION
- SB-11 PROPOSED SOIL BORING AND GROUNDWATER LOCATIONS
- ★ R-06 PROPOSED MONITORING WELL LOCATION

0 50
FEET



COL. 17444B-003



TITLE:
PROPOSED LOCATIONS FOR
SOIL AND GROUNDWATER INVESTIGATION
AND MONITORING WELL INSTALLATION

DWN: TMM	DES.: CI
CHKD: SP	APPD:
DATE: 8/11/99	REV.: 1

PROJECT NO.: 17444
EL PASO FIELD SERVICE COMPANY
FIGURE 1

Tabel 1

Jacquez Cornfield Results Summary

SAMPLE ID	DATE	TIME	Sample Location	Sample Depth	Sample Matrix	Sample Color	Field PID (PPM)	TPH MG/KG	Benzene	Total BTEX
			Map Point						Soil - MG/KG Water - PPB	Soil - MG/KG Water - PPB
990293	6/30/99	850	#1	4' - 2"	Soil	Brown	<5.0	<20	<0.025	<0.1
990294	6/30/99	910	#2	4' - 2"	Soil	Brown	<5.0	<20	<0.025	<0.1
990295	6/30/99	930	#3	4'	Soil	Brown	<5.0	<20	<0.025	<0.1
990296	6/30/99	945	#4	4'	Soil	Brown	<5.0	<20	<0.025	<0.1
990297	6/30/99	1000	#6	4'	Soil	Gray	2346	6850	28	262
990298	6/30/99	1015	#8	4'	Soil	Brown	<5.0	<20	<0.025	<0.1
990299	6/30/99	1025	#9	4'	Soil	Gray	2387	1443	2.6	46.5
990300	6/30/99	1040	#5	4'	Soil	Brown	<5.0	<20	<0.025	<0.1
990301	6/30/99	1050	#5	4'	Water	Clear	NA	NA	<0.5	<2.0
990302	6/30/99	1140	#10	7' - 4"	Soil	Black	Not Run	<20	<0.025	<0.1
990303	6/30/99	1145	#10	7' - 4"	Water	Clear	NA	NA	1100	3060
990304	6/30/99	1010	#7	4'	Soil	Brown	<5.0	<20	<0.025	<0.1

Attachment 1
Laboratory Report

Jacquez Cornfield Results Summary

SAMPLE ID	DATE	TIME	Sample Location	Sample Depth	Sample Matrix	Sample Color	Field PID (PPM)	TPH MG/KG	Benzene Soil - MG/KG	Total BTEX Soil - MG/KG
			Map Point						Water - PPB	Water - PPB
990293	6/30/99	850	#1	4' - 2'''	Soil	Brown	<5.0	<20	<0.025	<0.1
990294	6/30/99	910	#2	4' - 2'''	Soil	Brown	<5.0	<20	<0.025	<0.1
990295	6/30/99	930	#3	4'	Soil	Brown	<5.0	<20	<0.025	<0.1
990296	6/30/99	945	#4	4'	Soil	Brown	<5.0	<20	<0.025	<0.1
990297	6/30/99	1000	#6	4'	Soil	Gray	2346	6850	28	262
990298	6/30/99	1015	#8	4'	Soil	Brown	<5.0	<20	<0.025	<0.1
990299	6/30/99	1025	#9	4'	Soil	Gray	2387	1443	2.6	46.5
990300	6/30/99	1040	#5	4'	Soil	Brown	<5.0	<20	<0.025	<0.1
990301	6/30/99	1050	#5	4'	Water	Clear	NA	NA	<0.5	<2.0
990302	6/30/99	1140	#10	7' - 4'''	Soil	Black	Not Run	<20	<0.025	<0.1
990303	6/30/99	1145	#10	7' - 4'''	Water	Clear	NA	NA	1100	3060
990304	6/30/99	1010	#7	4'	Soil	Brown	<5.0	<20	<0.025	<0.1

MC# 70995

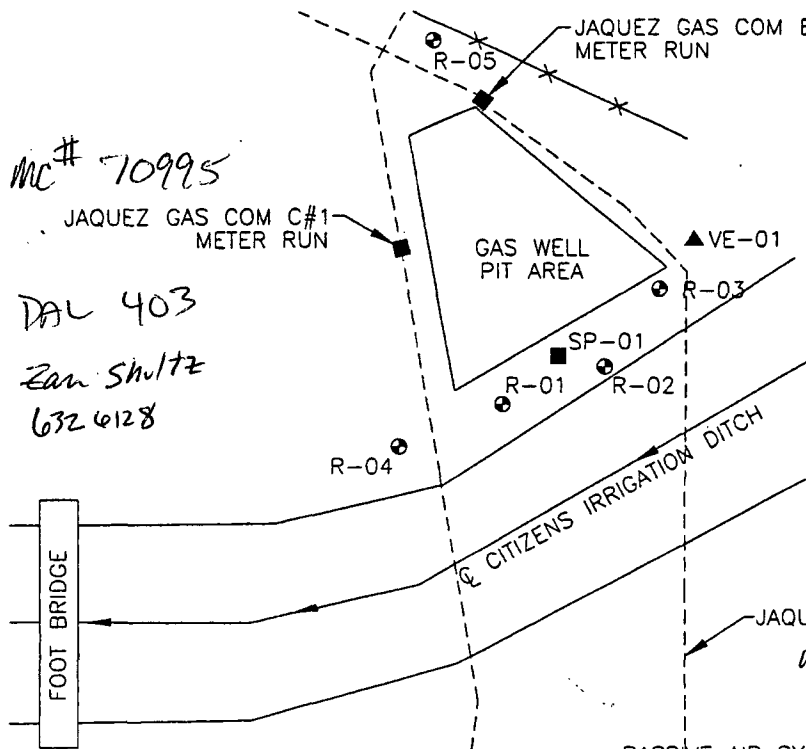
Jaquez Gas Com C#1
METER RUN

DAL 403

Zam Shultz

632 6128

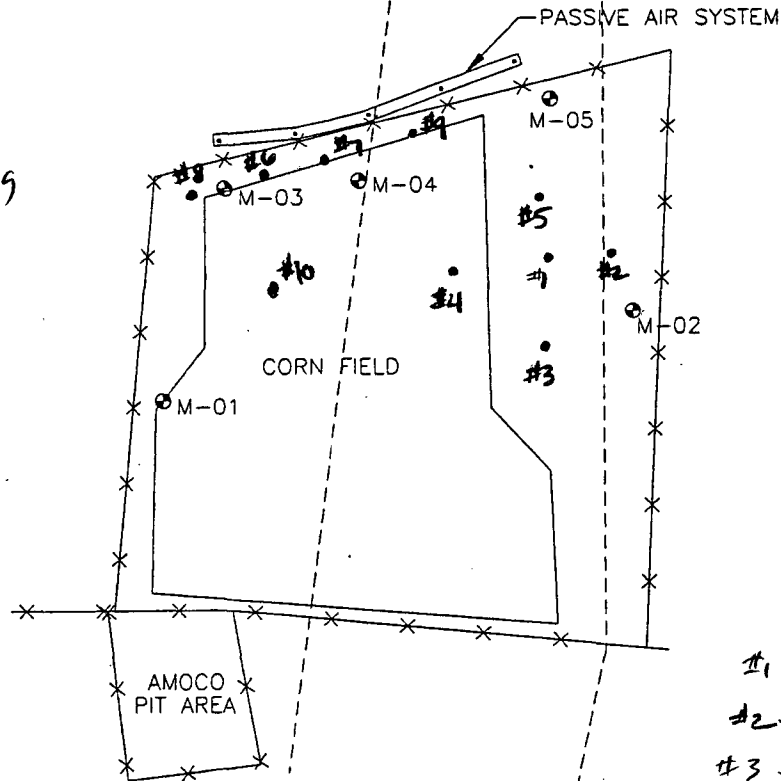
Syng Hwy
5/25/99



Jaquez Gas Com E#1
MC# 87603
DAL 459

Tim Jantz
632 6129

Next w/p
June 30, 1999



LEGEND

- x—x— FENCE LINE
- PIPE LINE
- M-01 MONITORING WELL LOCATION AND NUMBER
- SP-01 GROUNDWATER SPARGE TEST POINT
- ▲ VE-01 VAPOR EXTRACTION TEST POINT

#1 - 4'2" Soil PID = 25 ppm
 #2 - 4'2" PID < 5.0 ppm
 #3 - 4' PID < 5.0 ppm
 #4 - 4' PID < 5.0 ppm
 #5 - 4' PID < 5.0 ppm
 #6 - 4' PID = 2340 ppm
 #7 - 4' PID = < 5 ppm
 #8 - 4' PID = 25 ppm
 #9 - 4' PID = 2387
 #10 - 7'4" NA



COL. 17444B-002

	TITLE:	DWN:	DES.:	PROJECT NO.:
	PROPOSED LOCATIONS FOR VAPOR EXTRACTION AND GROUNDWATER SPARGE POINTS	TMM	CI	17444
		CHKD:	APPD:	EL PASO FIELD SERVICE COMPANY
	DATE:	REV.:	FIGURE 1	
	6/9/99	0		

ANALYSIS REQUEST NUMBERS

SAMPLE NUMBER	Logged by (In Sale)	Date of Collection	Time of Collection	Location	Sample Point	Primary Description	Matrix	LAB #1	Date of Results	Lab #2	Date of Results
990271	JAL	6/8/99	1202	MC#	Ramanta et al #1 PC-006	MW-2	Water	PINN			
990272	JAL	6/8/99	1300	MC#	Ramanta et al #1 PC-007	MW-3					
990273	JAL	6/8/99	1335	MC#	Charley PAH #2 PC-008	MW-1					
990274	JAL	6/8/99	1410	MC#	Charley PAH #2 PC-009	MW-2					
990275	JAL	6/8/99	1440	MC#	Charley PAH #2 PC-010	MW-3					
990276	JAL	6/8/99	1441	MC#	Trip Blank						
990277	JAL	6/8/99	1442	MC#	Trip Blank #2		Water	PINN			
990278	DPB	6-11-99	1148	MC# 93388	HORTON #1E	MW-1	WATER	EPFS			
990279	DPB	6-11-99	1148	MC# 93388	HORTON #1E	MW-1	WATER	EPFS			
990280	DPB	6-11-99	1540	MC# 89894	HAMMOND #41A	MW-1	WATER	EPFS			
990281	DPB	6-11-99	1542		TRIP BLANK		WATER	PINN			
990282	DPB	6-14-99	1033	MC# 75155	RAMENTA ET AL #1	MW-1	WATER	EPFS			
990283	DPB	6-14-99	1203	MC# 71816	JENNIFER PAH #1	MW-1	WATER	EPFS			
990284	DPB	6-14-99	1445	MC# 60087	K-31 LINE DRIP	MW-1	WATER	EPFS			
990285	DPB	6-14-99	1447		TRIP BLANK		WATER				
990286	DPB	6-14-99	1314	CHACO PLANT	CONTROL STORAGE		WATER	UWS			
990287	DPB	6-15-99	1213	CHACO PLANT	MONITOR WELL	MW-9	WATER	PINN			
990288	DPB	6-15-99	1350	CHACO PLANT	MONITOR WELL	MW-10	WATER				
990289	DPB	6-15-99	1350	CHACO PLANT	MONITOR WELL FIELD DOP	MW-10	WATER				
990290	DPB	6-15-99	1548	MC# 73220	FOGELSON 4/1 COM #4	MW-1	WATER				
990291	DPB	6-15-99	1550		TRIP BLANK		WATER				
990292	DPB	6-15-99	0830	BLANCO PLANT	TOTAL DISCHARGE		WATER	EPFS			
990293	JAL	6-30-99	0850	JACQUEZ CF	HA #1 Brown	4'-2"	Soil	PINN			<5
990294	JAL	6-30-99	0910		HA #2	4'-2"	Soil				<5
990295	JAL	6-30-99	0930		HA #3	4'	Soil				<5
990296	JAL	6-30-99	0945		HA #4 Brown	4'	Soil				<5
990297	JAL	6-30-99	1000	JACQUEZ CF	HA #6 Gray	4'	Soil	PINN			2346

ANALYSIS REQUEST NUMBERS

SAMPLE NUMBER	Logged by (Initials)	Date of Collection	Time of Collection	Location	Sample Point	Primary Description	Matrix	LAB #1	Date of Results	Lab #2	Date of Results	Initials
990297	JAL	6-30-99	1010	JACQUEZ CF	HA #7 Brown	4'	Soil	PINN				LS
990298	JAL		1015		HA #8 Brown	4'	Soil					LS
990299	JAL		1025		HA #9 Gray	4'	Soil					2387
990300	JAL		1040		HA #5 Brown	4'	Soil					LS
990301	JAL		1050		HA #5 GW	4'	Water					-
990302	JAL		1140		HA #10 Black	7'-4"	Soil					NR
990303	JAL	6-30-99	1145	JACQUEZ CF	HA #10 GW	7'-4"	Water	PINN				-
990304	JAL	6-30-99	1010	JACQUEZ CF	HA #7 Brown	4'	Soil	PINN				LS
990305	JAL	7-1-99	0840	CHACO Plant	LAKE FELDER		Water	CORE				
990306	DPB	7-9-99	1405	CHACO PLANT	20" DISCHARGE		WATER	EPFS				
990307	DPB	7-13-99	1030	CHACO PLANT	MONITOR WELL	MW-2	WATER	EPFS				
990308			1157		MONITOR WELL	MW-3	WATER	EPFS				
990309			1255		MONITOR WELL	MW-4	WATER	EPFS				
990310			1423		MONITOR WELL	MW-5	WATER	EPFS				
990311			1423		MONITOR WELL	MW-5	WATER	EPFS				
990312			1546		MONITOR WELL	MW-6	WATER	EPFS				
990313	DPB	7-13-99	1702	CHACO PLANT	MONITOR WELL	MW-7	WATER	EPFS				
990314	JAL	7/13/99	?	South Carlshad Turbine	Contactor Out	Rich	Glycol	EPFS				
990315			?		Lean Glycol							
990316			?		Before Charcoal Filter							
990317			?		Out of Charcoal Filter							
990318	JAL	7/13/99	?	South Carlshad Turbine	New Glycol From Tank		Glycol	EPFS				
990319	JAL	7/15/99	1410	Chinco Plant	C-1 Oil Residue	Mobil 799 Like Oil, Filter Residue	Deposit	EPFS				
990320	JAL	7/15/99		Patterson Canyon								

PINNACLE
LABORATORIES



2709-D Pan American Freeway NE
Albuquerque, New Mexico 87107
Phone (505) 344-3777
Fax (505) 344-4413

Pinnacle Lab ID number 907004
July 13, 1999

EL PASO FIELD SERVICES
770 WEST NAVAJO
FARMINGTON, NM 87401

Project Name JACQUEZ CF
Project Number (none)

Attention: JOHN LAMBDIN

On 7/1/99 Pinnacle Laboratories, Inc. Inc., (ADHS License No. AZ0592), received a request to analyze **aqueous and 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.

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

Kimberly D. McNeill
Project Manager

MR: mt

Enclosure

H. Mitchell Rubenstein, Ph. D.
General Manager

Reviewed & Accepted
7/19/99
Stalder



2709-D Pan American Freeway NE
Albuquerque, New Mexico 87107
Phone (505) 344-3777
Fax (505) 344-4413

CLIENT : EL PASO FIELD SERVICES
PROJECT # : (none)
PROJECT NAME : JACQUEZ CF

PINNACLE ID : 907004
DATE RECEIVED : 7/1/99
REPORT DATE : 7/13/99

PIN			DATE
D. #	CLIENT DESCRIPTION	MATRIX	COLLECTED
01	990293	NON-AQ	6/30/99
02	990294	NON-AQ	6/30/99
03	990295	NON-AQ	6/30/99
04	990296	NON-AQ	6/30/99
05	990297	NON-AQ	6/30/99
06	990298	NON-AQ	6/30/99
07	990299	NON-AQ	6/30/99
08	990300	NON-AQ	6/30/99
09	990301	AQUEOUS	6/30/99
10	990302	NON-AQ	6/30/99
11	990303	AQUEOUS	6/30/99
12	990304	NON-AQ	6/30/99



2709-D Pan American Freeway NE
Albuquerque, New Mexico 87107
Phone (505) 344-3777
Fax (505) 344-4413

GAS CHROMATOGRAPHY RESULTS

TEST : EPA 8021 MODIFIED
CLIENT : EL PASO FIELD SERVICES
PROJECT # : (none)
PROJECT NAME : JACQUEZ CF

PINNACLE I.D.: 907004

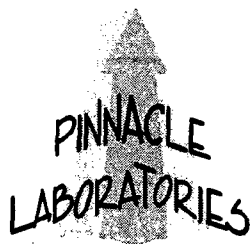
SAMPLE		MATRIX	DATE	DATE	DATE	DIL.
ID. #	CLIENT I.D.		SAMPLED	EXTRACTED	ANALYZED	
01	990293	NON-AQ	6/30/99	7/6/99	7/7/99	1
02	990294	NON-AQ	6/30/99	7/6/99	7/7/99	1
03	990295	NON-AQ	6/30/99	7/6/99	7/7/99	1

PARAMETER	DET. LIMIT	UNITS	990293	990294	990295
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	< 0.025	< 0.025	< 0.025

SURROGATE:
BROMOFLUOROBENZENE (%)
SURROGATE LIMITS (65 - 120)

92 95 94

CHEMIST NOTES:
N/A



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GAS CHROMATOGRAPHY RESULTS

TEST : EPA 8021 MODIFIED
CLIENT : EL PASO FIELD SERVICES
PROJECT # : (none)
PROJECT NAME : JACQUEZ CF

PINNACLE I.D.: 907004

SAMPLE			DATE	DATE	DATE	DIL.
ID. #	CLIENT I.D.	MATRIX	SAMPLED	EXTRACTED	ANALYZED	FACTOR
04	990296	NON-AQ	6/30/99	7/6/99	7/7/99	1
05	990297	NON-AQ	6/30/99	7/6/99	7/7/99	100
06	990298	NON-AQ	6/30/99	7/6/99	7/7/99	1

PARAMETER	DET. LIMIT	UNITS	990296	990297	990298
BENZENE	0.025	MG/KG	< 0.025	28	< 0.025
TOLUENE	0.025	MG/KG	< 0.025	10	< 0.025
ETHYLBENZENE	0.025	MG/KG	< 0.025	24	< 0.025
TOTAL XYLENES	0.025	MG/KG	< 0.025	200	< 0.025

SURROGATE:

BROMOFLUOROBENZENE (%)

94

79

88

SURROGATE LIMITS (65 - 120)

CHEMIST NOTES:

N/A



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Albuquerque, New Mexico 87107
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GAS CHROMATOGRAPHY RESULTS

TEST : EPA 8021 MODIFIED
CLIENT : EL PASO FIELD SERVICES
PROJECT # : (none)
PROJECT NAME : JACQUEZ CF

PINNACLE I.D.: 907004

SAMPLE		MATRIX	DATE	DATE	DATE	DIL.
ID. #	CLIENT I.D.		SAMPLED	EXTRACTED	ANALYZED	FACTOR
07	990299	NON-AQ	6/30/99	7/6/99	7/7/99	50
08	990300	NON-AQ	6/30/99	7/6/99	7/7/99	1
10	990302	NON-AQ	6/30/99	7/6/99	7/7/99	1

PARAMETER	DET. LIMIT	UNITS	990299	990300	990302
BENZENE	0.025	MG/KG	2.6	< 0.025	< 0.025
TOLUENE	0.025	MG/KG	13	< 0.025	< 0.025
ETHYLBENZENE	0.025	MG/KG	3.9	< 0.025	< 0.025
TOTAL XYLENES	0.025	MG/KG	27	< 0.025	< 0.025

SURROGATE:
BROMOFLUOROBENZENE (%) 85 88 87
SURROGATE LIMITS (65 - 120)

CHEMIST NOTES:
N/A



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GAS CHROMATOGRAPHY RESULTS

TEST : EPA 8021 MODIFIED
CLIENT : EL PASO FIELD SERVICES
PROJECT # : (none)
PROJECT NAME : JACQUEZ CF

PINNACLE I.D.: 907004

SAMPLE		MATRIX	DATE	DATE	DATE	DIL.
ID. #	CLIENT I.D.		SAMPLED	EXTRACTED	ANALYZED	FACTOR
12	990304	NON-AQ	6/30/99	7/6/99	7/7/99	1
PARAMETER		DET. LIMIT	UNITS	990304		
BENZENE		0.025	MG/KG	< 0.025		
TOLUENE		0.025	MG/KG	< 0.025		
ETHYLBENZENE		0.025	MG/KG	< 0.025		
TOTAL XYLENES		0.025	MG/KG	< 0.025		

SURROGATE:
BROMOFLUOROBENZENE (%) 89
SURROGATE LIMITS (65 - 120)

CHEMIST NOTES:
N/A



2709-D Pan American Freeway NE
Albuquerque, New Mexico 87107
Phone (505) 344-3777
Fax (505) 344-4413

GAS CHROMATOGRAPHY RESULTS
REAGENT BLANK

TEST	: EPA 8021 MODIFIED	PINNACLE I.D.	: 907004
BLANK I. D.	: 070699	DATE EXTRACTED	: 7/6/99
CLIENT	: EL PASO FIELD SERVICES	DATE ANALYZED	: 7/7/99
PROJECT #	: (none)	SAMPLE MATRIX	: NON-AQ
PROJECT NAME	: JACQUEZ CF		

PARAMETER	UNITS	
BENZENE	MG/KG	<0.025
TOLUENE	MG/KG	<0.025
ETHYLBENZENE	MG/KG	<0.025
TOTAL XYLENES	MG/KG	<0.025

SURROGATE:

BROMOFLUOROBENZENE (%)	93
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SURROGATE LIMITS: (80 - 120)

CHEMIST NOTES:

N/A



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Albuquerque, New Mexico 87107
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Fax (505) 344-4413

GAS CHROMATOGRAPHY QUALITY CONTROL
MSMSD

TEST : EPA 8021 MODIFIED
MSMSD # : 907004-01
CLIENT : EL PASO FIELD SERVICES
PROJECT # : (none)
PROJECT NAME : JACQUEZ CF

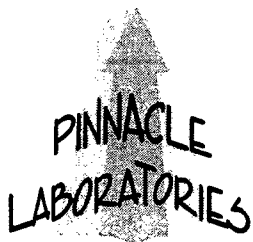
PINNACLE I.D. : 907004
DATE EXTRACTED : 7/6/99
DATE ANALYZED : 7/7/99
SAMPLE MATRIX : NON-AQ
UNITS : MG/KG

PARAMETER	SAMPLE RESULT	CONC SPIKE	SPIKED SAMPLE	% REC	DUP SPIKE	DUP % REC	RPD	REC LIMITS	RPD LIMITS
BENZENE	<0.025	1.00	1.02	102	0.99	99	3	(68 - 120)	20
TOLUENE	<0.025	1.00	0.99	99	1.02	102	3	(64 - 120)	20
ETHYLBENZENE	<0.025	1.00	1.03	103	1.04	104	1	(49 - 127)	20
TOTAL XYLENES	<0.025	3.00	2.89	96	2.95	98	2	(58 - 120)	20

CHEMIST NOTES:
N/A

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

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



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GAS CHROMATOGRAPHY RESULTS

TEST : EPA 8021 MODIFIED
CLIENT : EL PASO FIELD SERVICES
PROJECT # : (none)
PROJECT NAME : JACQUEZ CF

PINNACLE I.D.: 907004

SAMPLE		MATRIX	DATE	DATE	DATE	DIL.
ID. #	CLIENT I.D.		SAMPLED	EXTRACTED	ANALYZED	FACTOR
09	990301	AQUEOUS	6/30/99	NA	7/5/99	1
11	990303	AQUEOUS	6/30/99	NA	7/5/99	10

PARAMETER	DET. LIMIT	UNITS	990301	990303
BENZENE	0.5	UG/L	< 0.5	1100
TOLUENE	0.5	UG/L	< 0.5	910
ETHYLBENZENE	0.5	UG/L	< 0.5	110
TOTAL XYLENES	0.5	UG/L	< 0.5	940
METHYL-t-BUTYL ETHER	2.5	UG/L	< 2.5	< 25

SURROGATE:
BROMOFLUOROBENZENE (%) 87 87
SURROGATE LIMITS (80 - 120)

CHEMIST NOTES:
N/A



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GAS CHROMATOGRAPHY RESULTS
REAGENT BLANK

TEST	: EPA 8021 MODIFIED	PINNACLE I.D.	: 907004
BLANK I. D.	: 070599	DATE EXTRACTED	: N/A
CLIENT	: EL PASO FIELD SERVICES	DATE ANALYZED	: 7/5/99
PROJECT #	: (none)	SAMPLE MATRIX	: AQUEOUS
PROJECT NAME	: JACQUEZ CF		

PARAMETER	UNITS	
BENZENE	UG/L	<0.5
TOLUENE	UG/L	<0.5
ETHYLBENZENE	UG/L	<0.5
TOTAL XYLENES	UG/L	<0.5

SURROGATE:

BROMOFLUOROBENZENE (%)	85
------------------------	----

SURROGATE LIMITS: (80 - 120)

CHEMIST NOTES:

N/A



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GAS CHROMATOGRAPHY QUALITY CONTROL
MSMSD

TEST : EPA 8021 MODIFIED
MSMSD # : 907004-09
CLIENT : EL PASO FIELD SERVICES
PROJECT # : (none)
PROJECT NAME : JACQUEZ CF

PINNACLE I.D. : 907004
DATE EXTRACTED : N/A
DATE ANALYZED : 7/5/99
SAMPLE MATRIX : AQUEOUS
UNITS : UG/L

PARAMETER	SAMPLE RESULT	CONC SPIKE	SPIKED SAMPLE	% REC	DUP SPIKE	DUP % REC	RPD	REC LIMITS	RPD LIMITS
BENZENE	<0.5	20.0	19.2	96	20.3	102	6	(80 - 120)	20
TOLUENE	<0.5	20.0	19.5	98	19.9	100	2	(80 - 120)	20
ETHYLBENZENE	<0.5	20.0	19.8	99	21.0	105	6	(80 - 120)	20
TOTAL XYLENES	<0.5	60.0	56.1	94	58.9	98	5	(80 - 120)	20

CHEMIST NOTES:
N/A

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

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



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Albuquerque, New Mexico 87107
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GAS CHROMATOGRAPHY RESULTS

TEST : EPA 8015 MODIFIED (DIRECT INJECT)
CLIENT : EL PASO FIELD SERVICES
PROJECT # : (none)
PROJECT NAME : JACQUEZ CF

PINNACLE I.D.: 907004

SAMPLE			DATE	DATE	DATE	DIL.
ID. #	CLIENT I.D.	MATRIX	SAMPLED	EXTRACTED	ANALYZED	FACTOR
01	990293	NON-AQ	6/30/99	7/6/99	7/7/99	1
02	990294	NON-AQ	6/30/99	7/6/99	7/7/99	1
03	990295	NON-AQ	6/30/99	7/6/99	7/7/99	1

PARAMETER	DET. LIMIT	UNITS	990293	990294	990295
FUEL HYDROCARBONS, C6-C10	10	MG/KG	< 10	< 10	< 10
FUEL HYDROCARBONS, C10-C22	5.0	MG/KG	< 5.0	< 5.0	< 5.0
FUEL HYDROCARBONS, C22-C36	5.0	MG/KG	< 5.0	< 5.0	< 5.0
CALCULATED SUM:					

SURROGATE:

O-TERPHENYL (%)		85	83	85
SURROGATE LIMITS	(66 - 151)			

CHEMIST NOTES:

N/A



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GAS CHROMATOGRAPHY RESULTS

TEST : EPA 8015 MODIFIED (DIRECT INJECT)
CLIENT : EL PASO FIELD SERVICES
PROJECT # : (none)
PROJECT NAME : JACQUEZ CF
PINNACLE I.D.: 907004

SAMPLE		MATRIX	DATE	DATE	DATE	DIL.
ID. #	CLIENT I.D.		SAMPLED	EXTRACTED	ANALYZED	FACTOR
04	990296	NON-AQ	6/30/99	7/6/99	7/7/99	1
05	990297	NON-AQ	6/30/99	7/8/99	7/9/99	50
06	990298	NON-AQ	6/30/99	7/6/99	7/8/99	1

PARAMETER	DET. LIMIT	UNITS	990296	990297	990298
FUEL HYDROCARBONS, C6-C10	10	MG/KG	< 10	5600	< 10
FUEL HYDROCARBONS, C10-C22	5.0	MG/KG	< 5.0	1000	< 5.0
FUEL HYDROCARBONS, C22-C36	5.0	MG/KG	< 5.0	250	< 5.0
CALCULATED SUM:				6850	

SURROGATE:
D-TERPHENYL (%) 83 N/A * 90
SURROGATE LIMITS (66 - 151)

CHEMIST NOTES:

= SURROGATE RECOVERY NOT OBTAINABLE DUE TO NECESSARY SAMPLE DILUTION.



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GAS CHROMATOGRAPHY RESULTS

TEST : EPA 8015 MODIFIED (DIRECT INJECT)
CLIENT : EL PASO FIELD SERVICES
PROJECT # : (none)
PROJECT NAME : JACQUEZ CF

PINNACLE I.D.: 907004

SAMPLE			DATE	DATE	DATE	DIL.
ID. #	CLIENT I.D.	MATRIX	SAMPLED	EXTRACTED	ANALYZED	FACTOR
07	990299	NON-AQ	6/30/99	7/8/99	7/9/99	10
08	990300	NON-AQ	6/30/99	7/6/99	7/8/99	1
10	990302	NON-AQ	6/30/99	7/6/99	7/8/99	1

PARAMETER	DET. LIMIT	UNITS	990299	990300	990302
FUEL HYDROCARBONS, C6-C10	10	MG/KG	1100	< 10	< 10
FUEL HYDROCARBONS, C10-C22	5.0	MG/KG	280	< 5.0	< 5.0
FUEL HYDROCARBONS, C22-C36	5.0	MG/KG	63	< 5.0	< 5.0
CALCULATED SUM:			1443		

SURROGATE:

O-TERPHENYL (%) 63 * 84 80
SURROGATE LIMITS (66 - 151)

CHEMIST NOTES:

* - SURROGATE RECOVERY LOW DUE TO SAMPLE MATRIX INTERFERENCE.



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GAS CHROMATOGRAPHY RESULTS

TEST : EPA 8015 MODIFIED (DIRECT INJECT)
CLIENT : EL PASO FIELD SERVICES
PROJECT # : (none)
PROJECT NAME : JACQUEZ CF

PINNACLE I.D.: 907004

SAMPLE	DATE	DATE	DATE	DIL.		
ID. #	CLIENT I.D.	MATRIX	SAMPLED	EXTRACTED	ANALYZED	FACTOR
12	990304	NON-AQ	6/30/99	7/6/99	7/8/99	1

PARAMETER	DET. LIMIT	UNITS	990304
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FUEL HYDROCARBONS, C6-C10	10	MG/KG	< 10
FUEL HYDROCARBONS, C10-C22	5.0	MG/KG	< 5.0
FUEL HYDROCARBONS, C22-C36	5.0	MG/KG	< 5.0

CALCULATED SUM:

SURROGATE:
O-TERPHENYL (%) 75
SURROGATE LIMITS (66 - 151)

CHEMIST NOTES:



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GAS CHROMATOGRAPHY RESULTS

REAGENT BLANK

TEST : EPA 8015 MODIFIED (DIRECT INJECT)
BLANK I.D. : 070699 PINNACLE I.D. : 907004
CLIENT : EL PASO FIELD SERVICES DATE EXTRACTED : 7/6/99
PROJECT # : (none) DATE ANALYZED : 7/7/99
PROJECT NAME : JACQUEZ CF SAMPLE MATRIX : NON-AQ

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 (%) 83
SURROGATE LIMITS (80 - 151)

CHEMIST NOTES:

N/A



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GAS CHROMATOGRAPHY RESULTS
REAGENT BLANK

TEST	: EPA 8015 MODIFIED (DIRECT INJECT)		
BLANK I.D.	: 070899	PINNACLE I.D.	: 907004
CLIENT	: EL PASO FIELD SERVICES	DATE EXTRACTED	: 7/8/99
PROJECT #	: (none)	DATE ANALYZED	: 7/9/99
PROJECT NAME	: JACQUEZ CF	SAMPLE MATRIX	: NON-AQ

PARAMETER	UNITS	
FUEL HYDROCARBONS	MG/KG	< 10
HYDROCARBON RANGE		< 5.0
HYDROCARBONS QUANTITATED USING		< 5.0

SURROGATE:

O-TERPHENYL (%)		88
SURROGATE LIMITS	(80 - 151)	

CHEMIST NOTES:
N/A



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GAS CHROMATOGRAPHY QUALITY CONTROL
MSMSD

TEST : EPA 8015 MODIFIED (DIRECT INJECT)
MSMSD # : 907004-01
CLIENT : EL PASO FIELD SERVICES
PROJECT # : (none)
PROJECT NAME : JACQUEZ CF

PINNACLE I.D. : 907004
DATE EXTRACTED : 7/6/99
DATE ANALYZED : 7/7/99
SAMPLE MATRIX : NON-AQ
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	107	107	111	111	4	(56 - 148)	20

CHEMIST NOTES:
N/A

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

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

CHAIN OF CUSTODY

AEN(NM) Accession #: 907004

DATE: 6/30/99 PAGE: 1 OF 2

SHADED AREAS ARE FOR LAB USE ONLY.

PLEASE FILL THIS FORM IN COMPLETELY.

PROJECT MANAGER: John Lambdin

COMPANY: EL PASO Field Services

ADDRESS: 770 W. NAVAJO
FARMINGTON, NM

PHONE: (505) 599-2144

FAX: (505) 599-2261

BILL TO: (SAME AS ABOVE)

COMPANY:

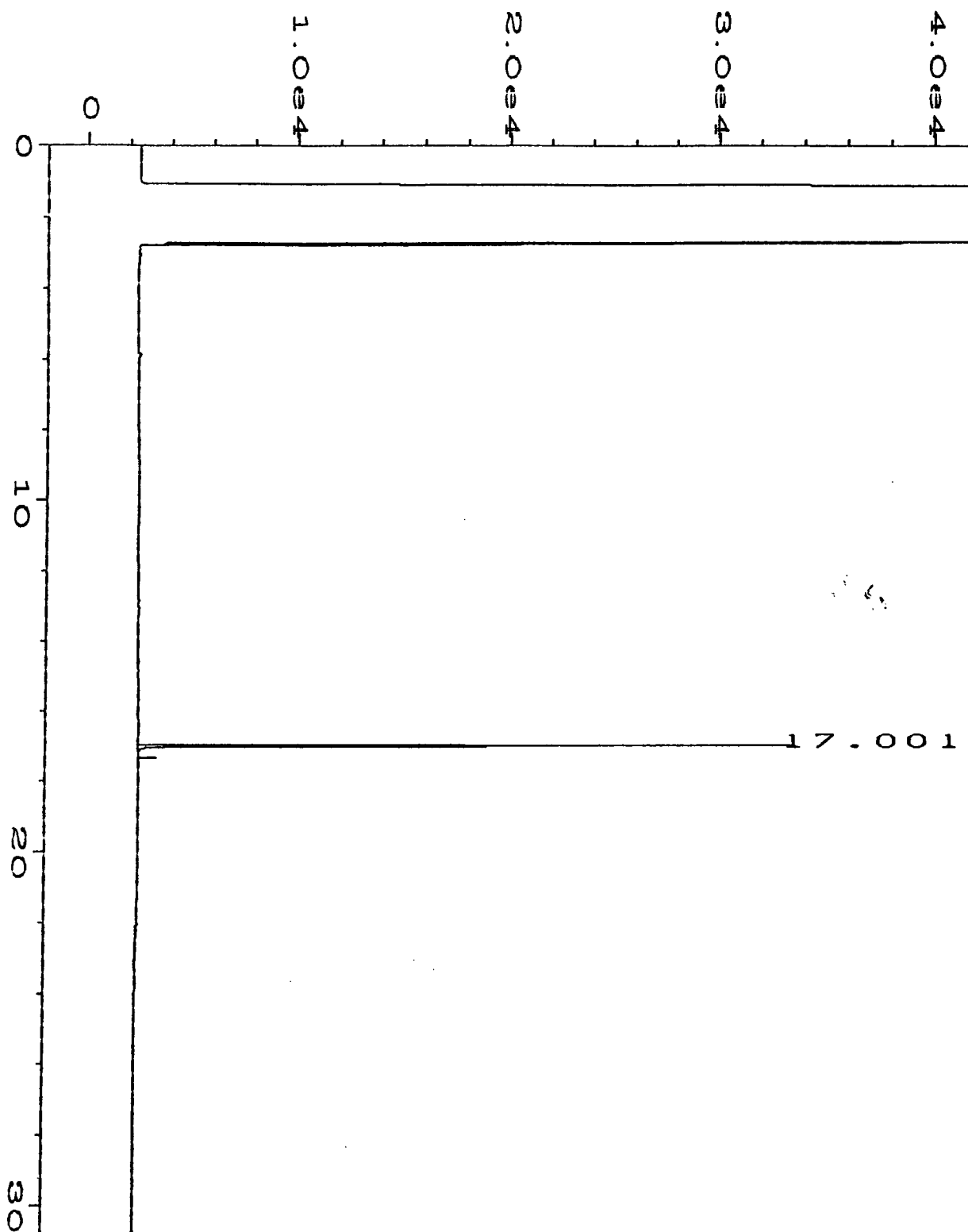
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ANALYSIS REQUEST

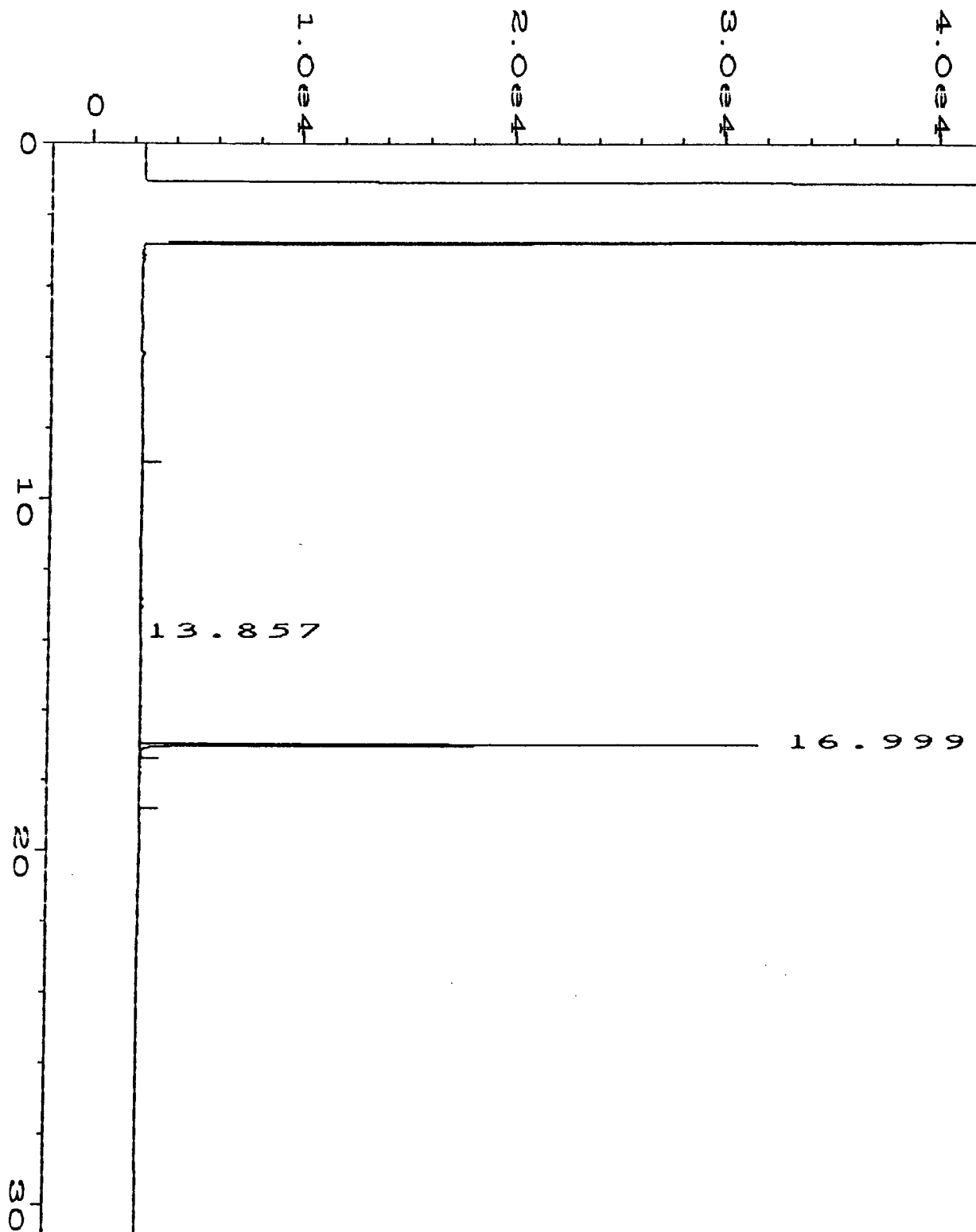
SAMPLE ID	DATE	TIME	MATRIX	LAB I.D.	Petroleum Hydrocarbons (418.1) TRPH	(MOD. 8015) Diesel/Direct Inject	(M8015) Gas/Purge & Trap	8021 (BTEX)/8015 (Gasoline)	8021 (BTEX) ☐ MTBE ☐ TMB ☐ PGE	8021 (TCL)	8021 (EDX)	8021 (HALO)	8021 (CUST)	504.1 EDB ☐ / DBCP ☐	8260 (TCL) Volatile Organics	8260 (Full) Volatile Organics	8260 (CUST) Volatile Organics	8260 (Landfill) Volatile Organics	Pesticides / PCB (608/8081)	Herbicides (615/8151)	Base/Neutral/Acid Compounds GC/MS (625/8270)	Polynuclear Aromatics (610/8310)	General Chemistry:	Priority Pollutant Metals (13)	Target Analyte List Metals (23)	RCRA Metals (8)	RCRA Metals by TCLP (Method 1311)	Metals:	NUMBER OF CONTAINERS
990293	6-30-99	0850	Soil	01		X			X																				1
990294		0910	Soil	02		X			X																				1
990295		0930	Soil	03		X			X																				1
990296		0945	Soil	04		X			X																				1
990297		1000	Soil	05		X			X																				1
990298		1015	Soil	06		X			X																				1
990299		1025	Soil	07		X			X																				1
990300		1040	Soil	08		X			X																				1
990301		1050	Water	09					X																				2
990302	6-30-99	1140	Soil	10		X			X																				1

PROJECT INFORMATION		PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS		RELINQUISHED BY: 1		RELINQUISHED BY: 2	
PROJ. NO.: NA	(RUSH) ☐ 24hr ☐ 48hr ☐ 72hr ☐ 1 WEEK	(NORMAL) ☒		Signature: John Lambdin	Time: 1430	Signature:	Time:
PROJ. NAME: JACQUEZ CF	CERTIFICATION REQUIRED: ☐ NM ☐ SDWA ☐ OTHER			Printed Name: John Lambdin	Date: 6/30/99	Printed Name:	Date:
P.O. NO.: NA	METHANOL PRESERVATION ☐			Company: El Paso Field Services		Company:	
SHIPPED VIA: Fed-X	COMMENTS: FIXED FEE ☐			RECEIVED BY:		RECEIVED BY: (LAB) 2	
SAMPLE RECEIPT				Signature:	Time:	Signature: Francine Tanno	Time: 1240
NO. CONTAINERS: 11				Printed Name:	Date:	Printed Name: Francine Tanno	Date: 6/1/99
CUSTODY SEALS: 0/N/NA				Company:		American Environmental Network (NM), Inc.	
RECEIVED INTACT: YES							
BLUE ISLAGE: 8°C	On Ice						

PAGE: 2 OF 2

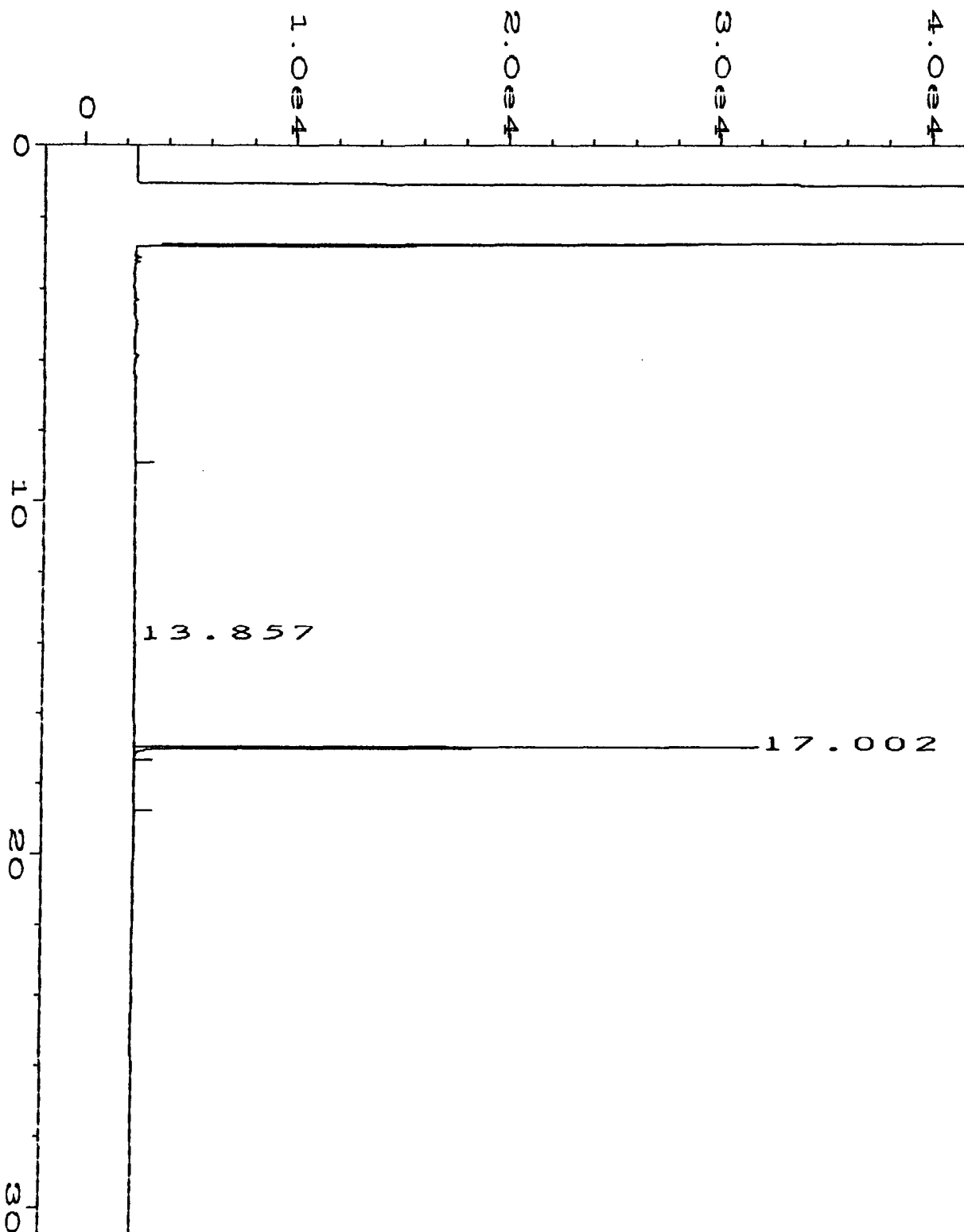


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Acquired on	: 07 Jul 99 05:41 PM	Analysis Method	: HX031699.MTH
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Last Recalib on	: 11 JAN 93 08:58 AM	ISTD Amount	:
Multiplier	: 1		



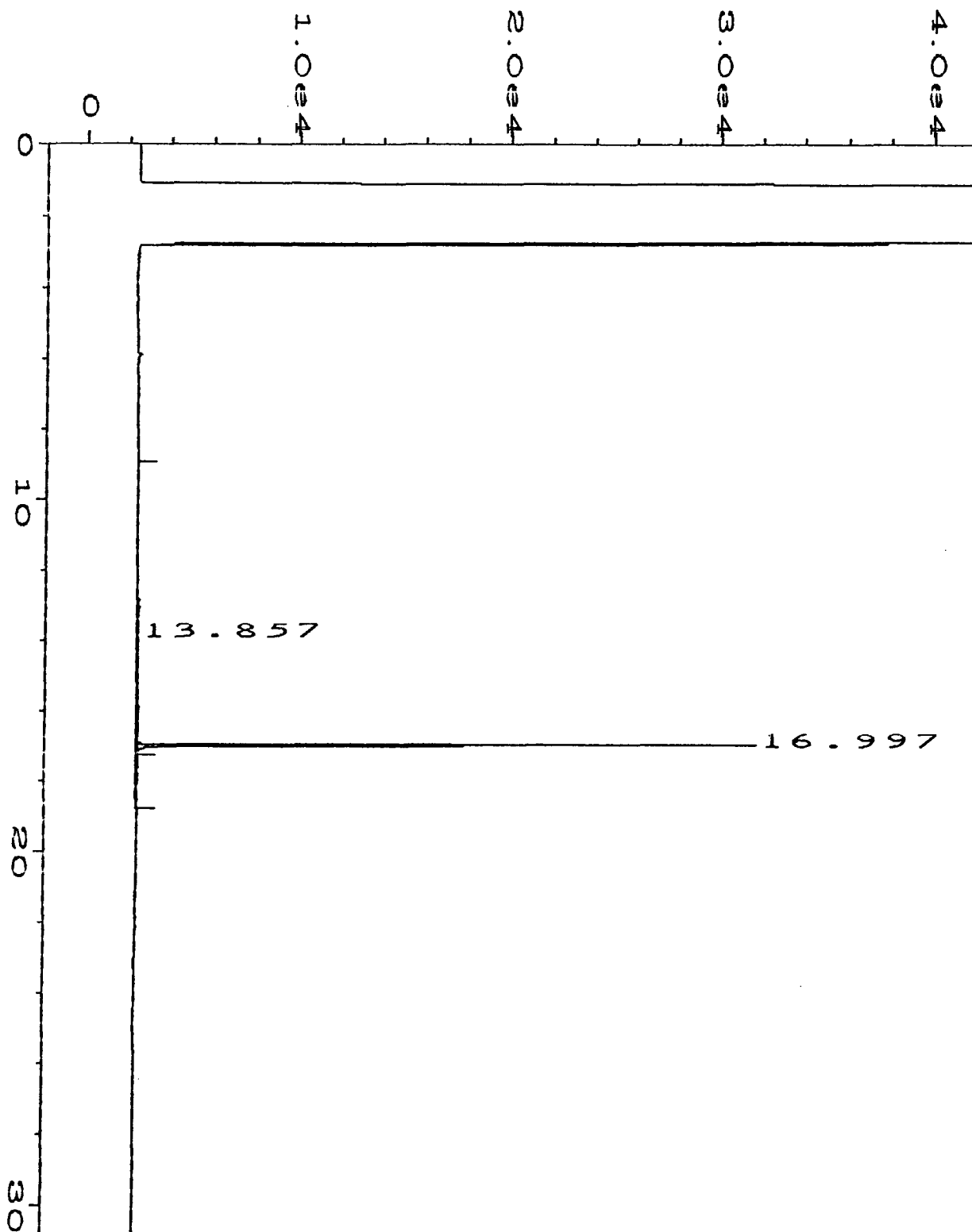
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Sample Name	: 907004-02	Sequence Line	: 1
Run Time Bar Code:		Instrument Method	: HX03169S.MTH
Acquired on	: 07 Jul 99 09:07 PM	Analysis Method	: HX031699.MTH
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Multiplier	: 1		



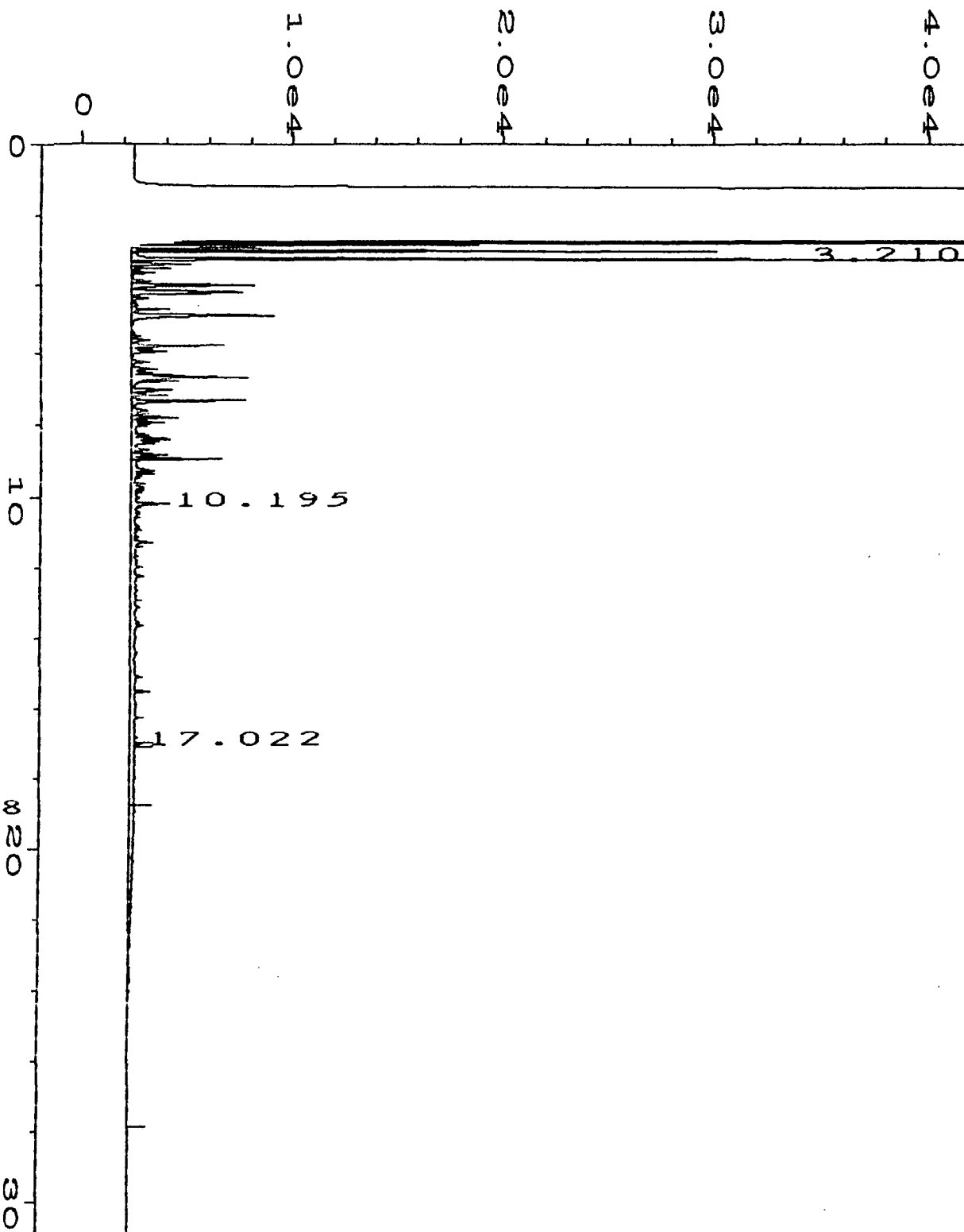
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Instrument	: FID1	Injection Number	: 1
Sample Name	: 907004-03	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	HX03169S.MTH
Acquired on	: 07 Jul 99 09:57 PM	Analysis Method	: HX031699.MTH
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Last Recalib on	: 11 JAN 93 08:58 AM	ISTD Amount	:
Multiplier	: 1		



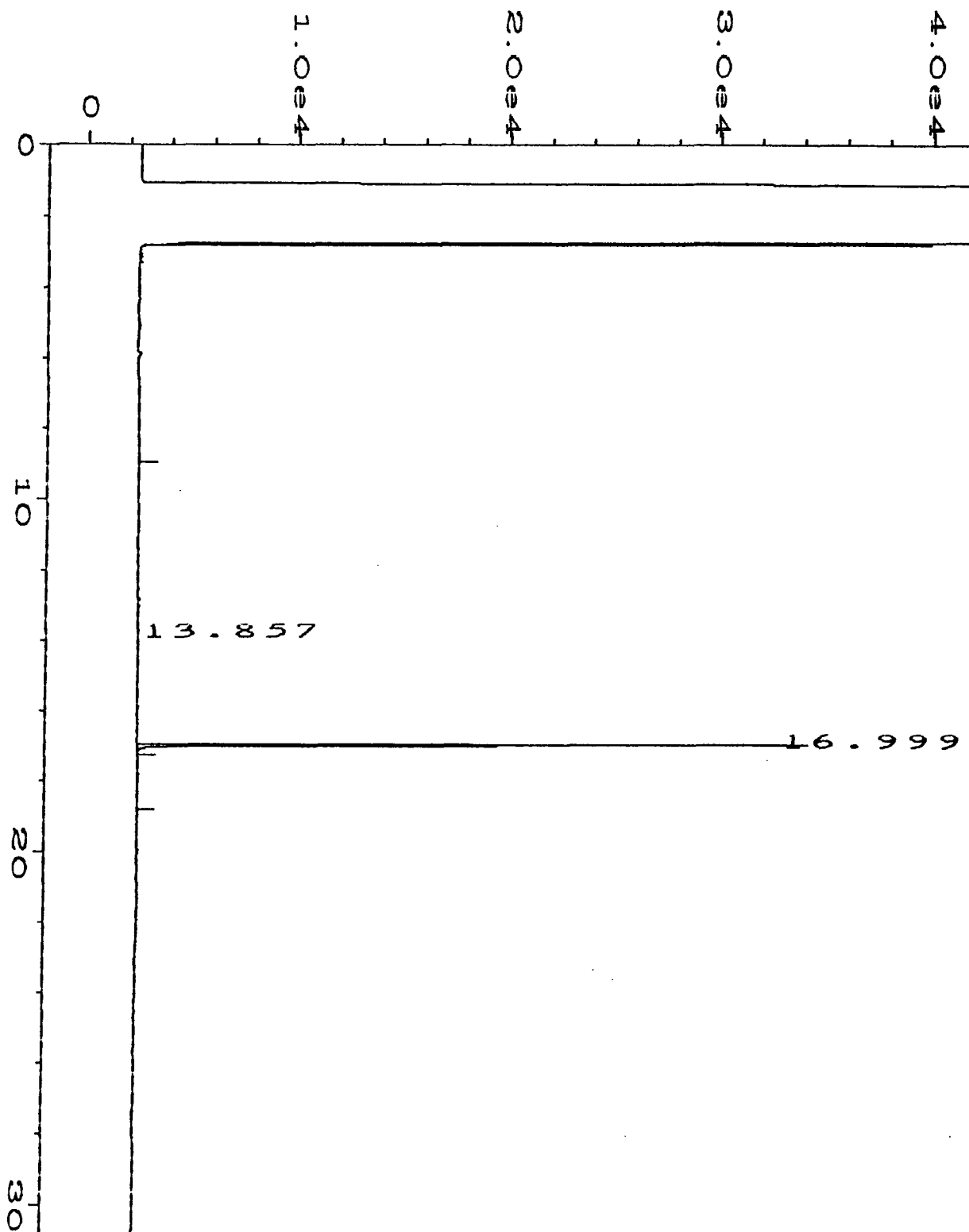
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Instrument	: FID1	Injection Number	: 1
Sample Name	: 907004-04	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	HX03169S.MTH
Acquired on	: 07 Jul 99 10:47 PM	Analysis Method	: HX031699.MTH
Report Created on:	08 Jul 99 01:41 PM	Sample Amount	: 0
Last Recalib on	: 11 JAN 93 08:58 AM	ISTD Amount	:
Multiplier	: 1		



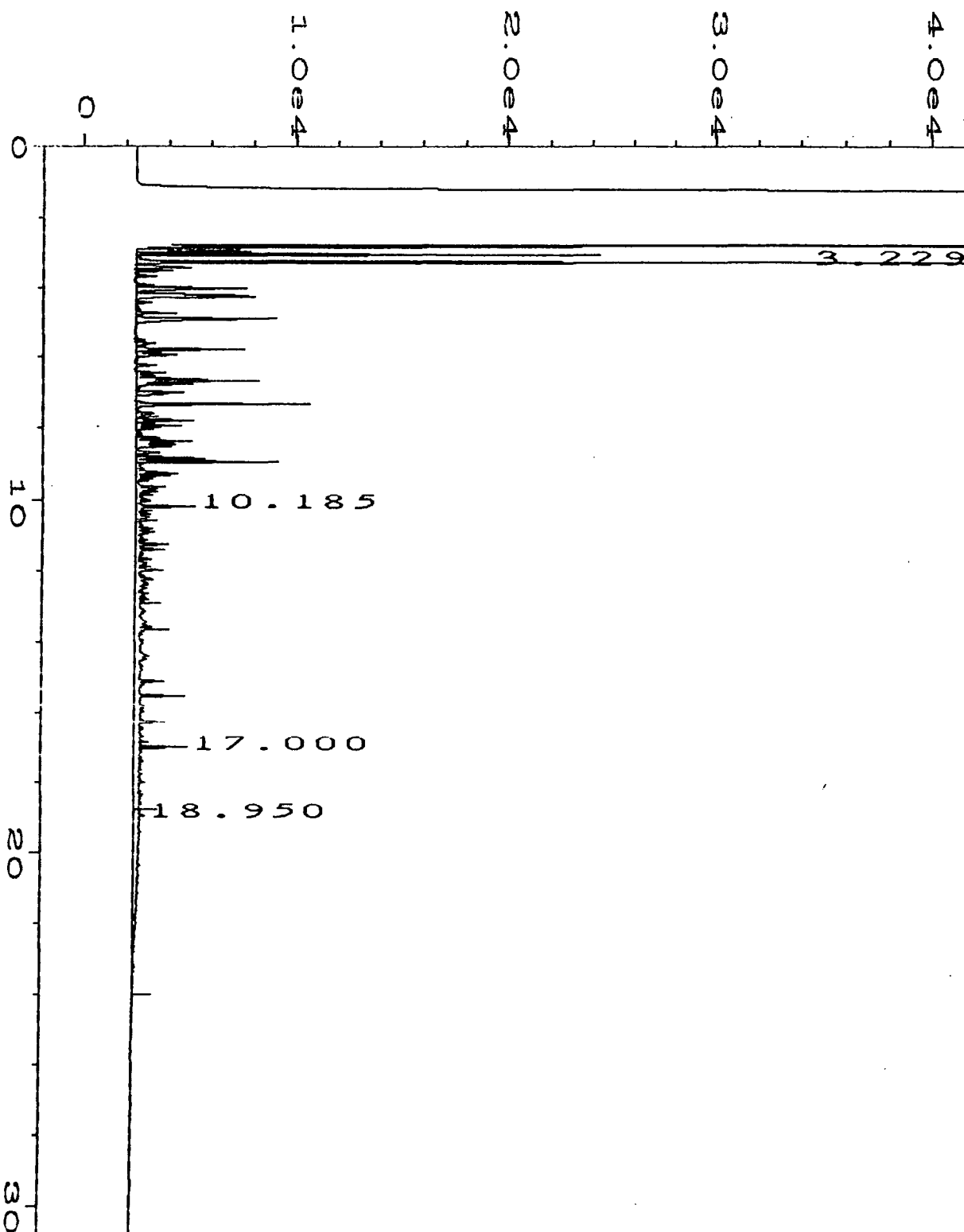
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Operator	: Pinnacle - rg & cff	Vial Number	: 6
Instrument	: FID1	Injection Number	: 1
Sample Name	: 907004-05*50	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	HX03169S.MTH
Acquired on	: 09 Jul 99 04:08 PM	Analysis Method	: HX03169S.MTH
Report Created on:	12 Jul 99 09:01 AM	Sample Amount	: 0
Last Recalib on	: 11 JAN 93 08:58 AM	ISTD Amount	:
Multiplier	: 1		



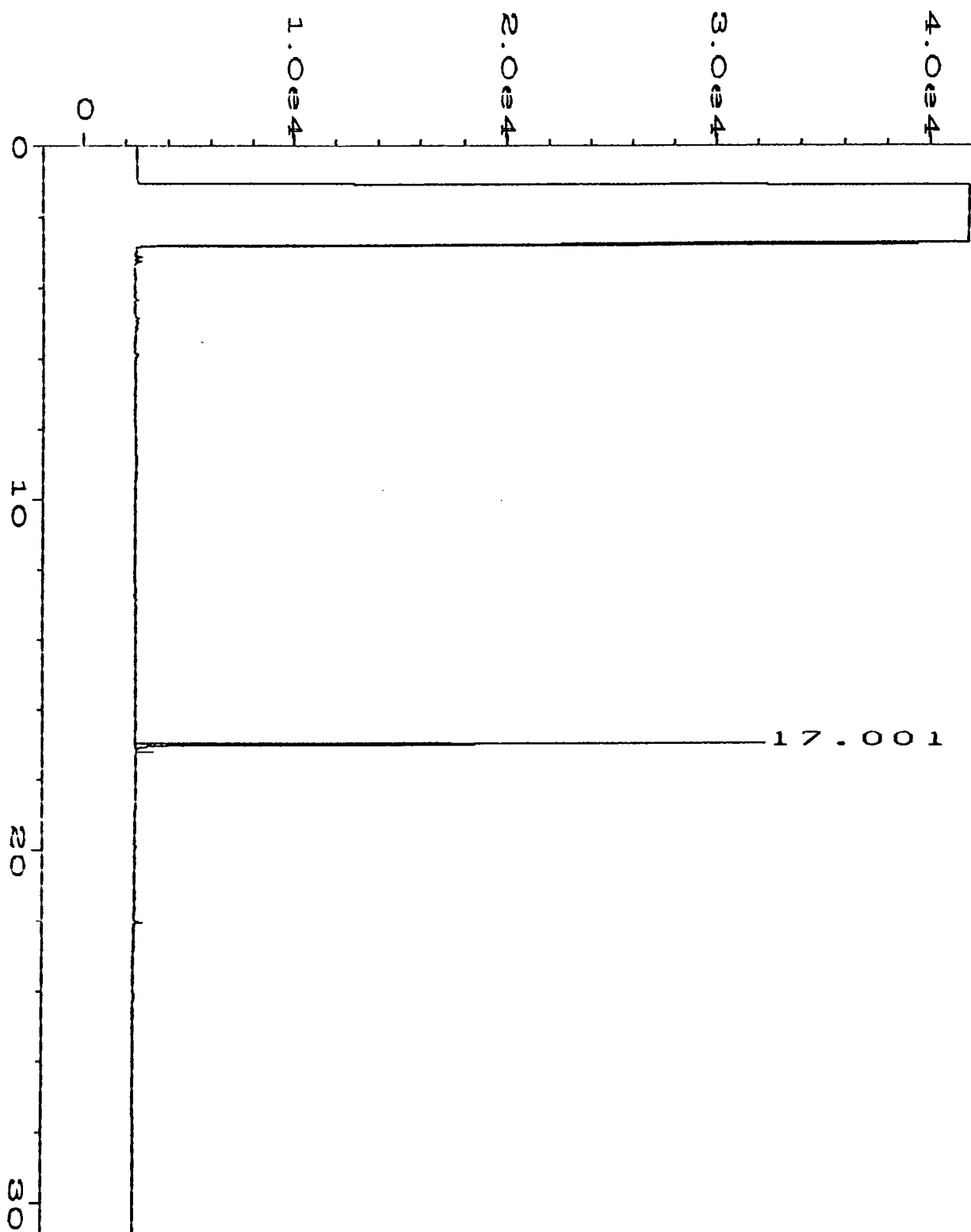
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Operator	: Pinnacle - rg & cff	Vial Number	: 20
Instrument	: FID1	Injection Number	: 1
Sample Name	: 907004-06	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	HX03169S.MTH
Acquired on	: 08 Jul 99 00:25 AM	Analysis Method	: HX031699.MTH
Report Created on:	08 Jul 99 01:42 PM	Sample Amount	: 0
Last Recalib on	: 11 JAN 93 08:58 AM	ISTD Amount	:
Multiplier	: 1		



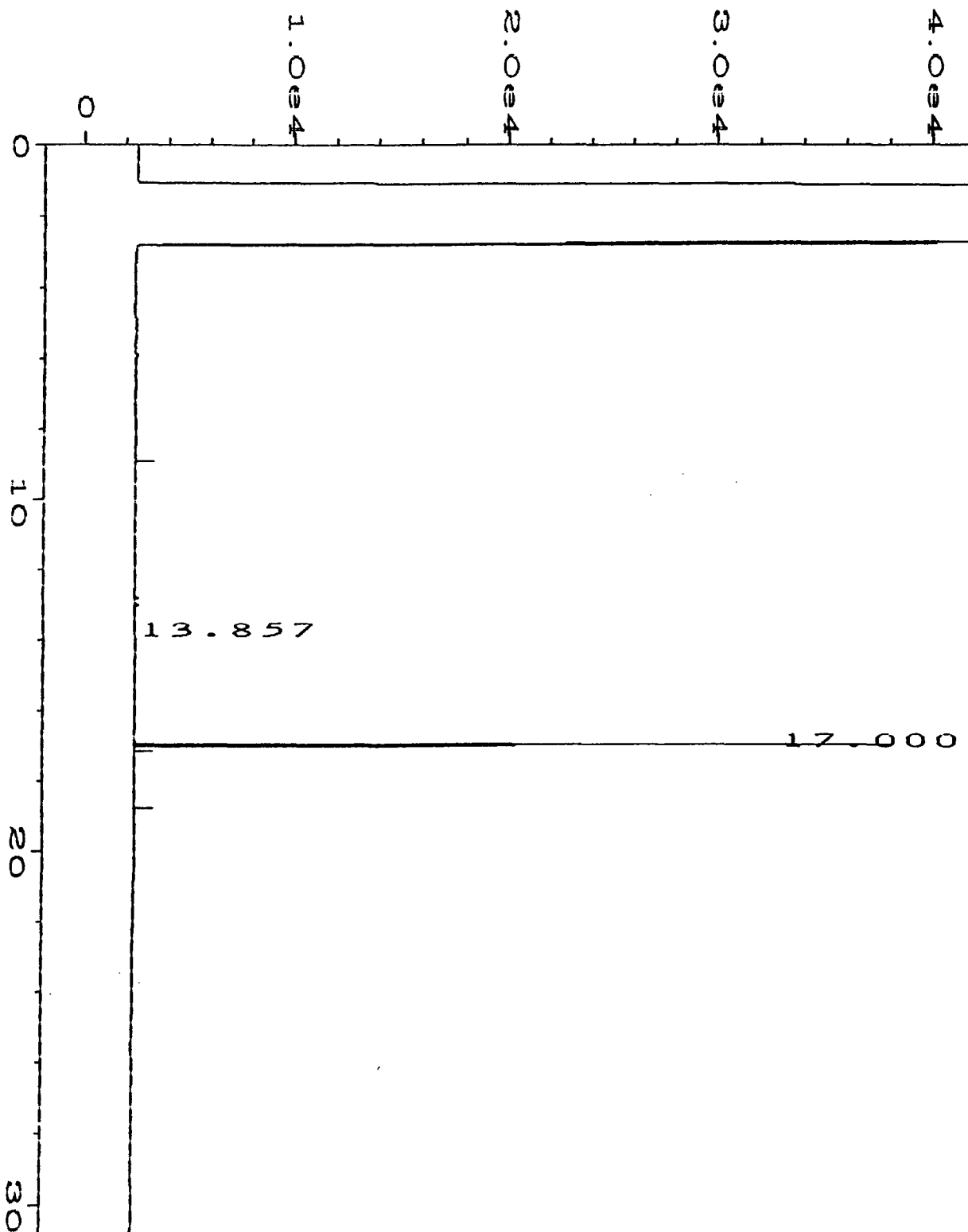
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Instrument	: FID1	Injection Number	: 1
Sample Name	: 907004-07*10	Sequence Line	: 1
Run Time Bar Code:	cff	Instrument Method:	HX03169S.MTH
Acquired on	: 09 Jul 99 05:49 PM	Analysis Method	: HX03169S.MTH
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Last Recalib on	: 11 JAN 93 08:58 AM	ISTD Amount	:
Multiplier	: 1		



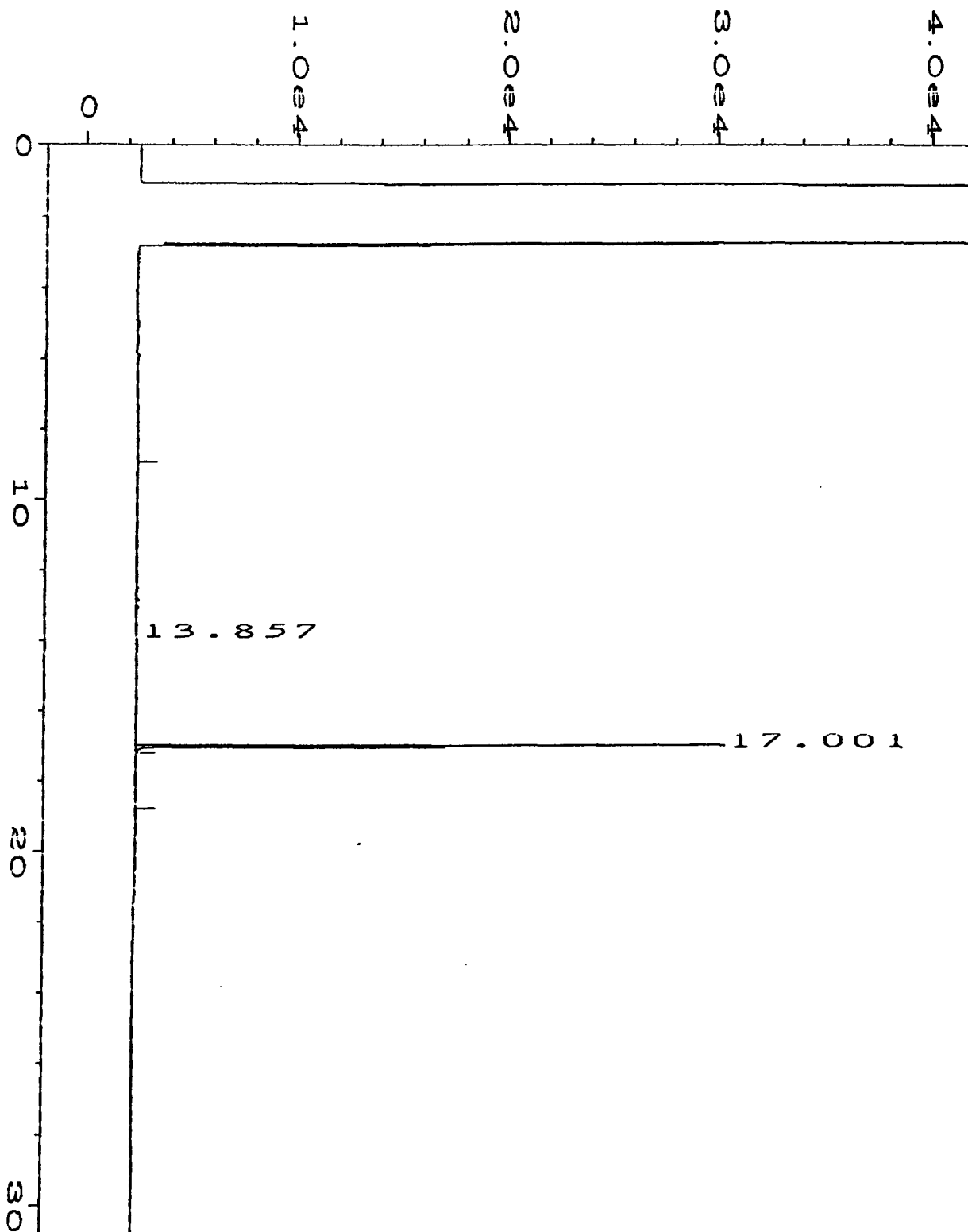
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Instrument	: FID1	Injection Number	: 1
Sample Name	: 907004-08	Sequence Line	: 1
Run Time Bar Code:		Instrument Method	: HX03169S.MTH
Acquired on	: 08 Jul 99 01:14 AM	Analysis Method	: HX031699.MTH
Report Created on	: 08 Jul 99 01:43 PM	Sample Amount	: 0
Last Recalib on	: 11 JAN 93 08:58 AM	1STD Amount	:
Multiplier	: 1		



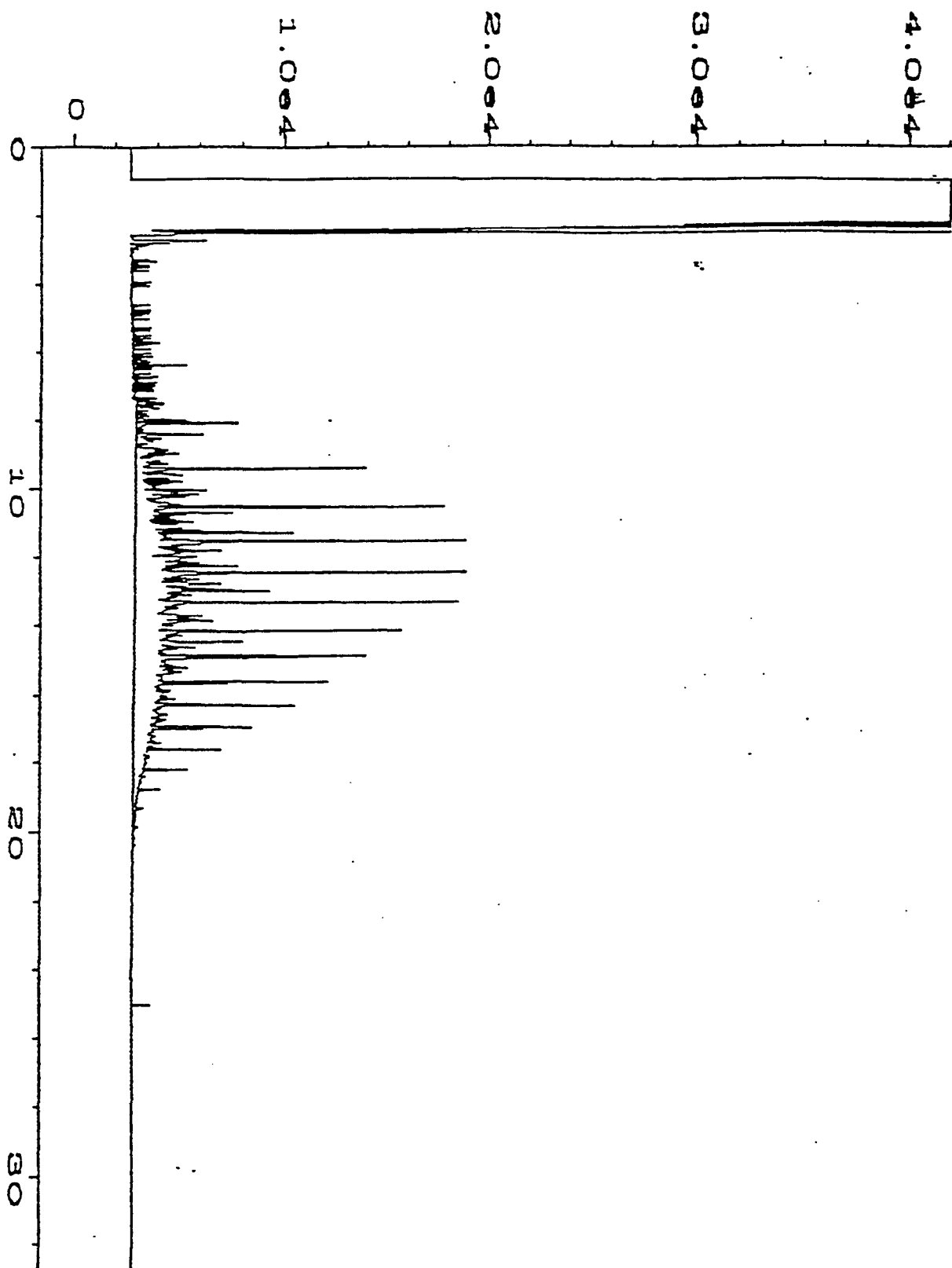
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Data File Name	: C:\HPCHEM\2\DATA\07JUL99\022R0101.D	Page Number	: 1
Operator	: Pinnacle - rg & cff	Vial Number	: 22
Instrument	: FID1	Injection Number	: 1
Sample Name	: 907004-10	Sequence Line	: 1
Run Time Bar Code:		Instrument Method	: HX03169S.MTH
Acquired on	: 08 Jul 99 02:04 AM	Analysis Method	: HX031699.MTH
Report Created on	: 08 Jul 99 01:44 PM	Sample Amount	: 0
Last Recalib on	: 11 JAN 93 08:58 AM	ISTD Amount	:
Multiplier	: 1		

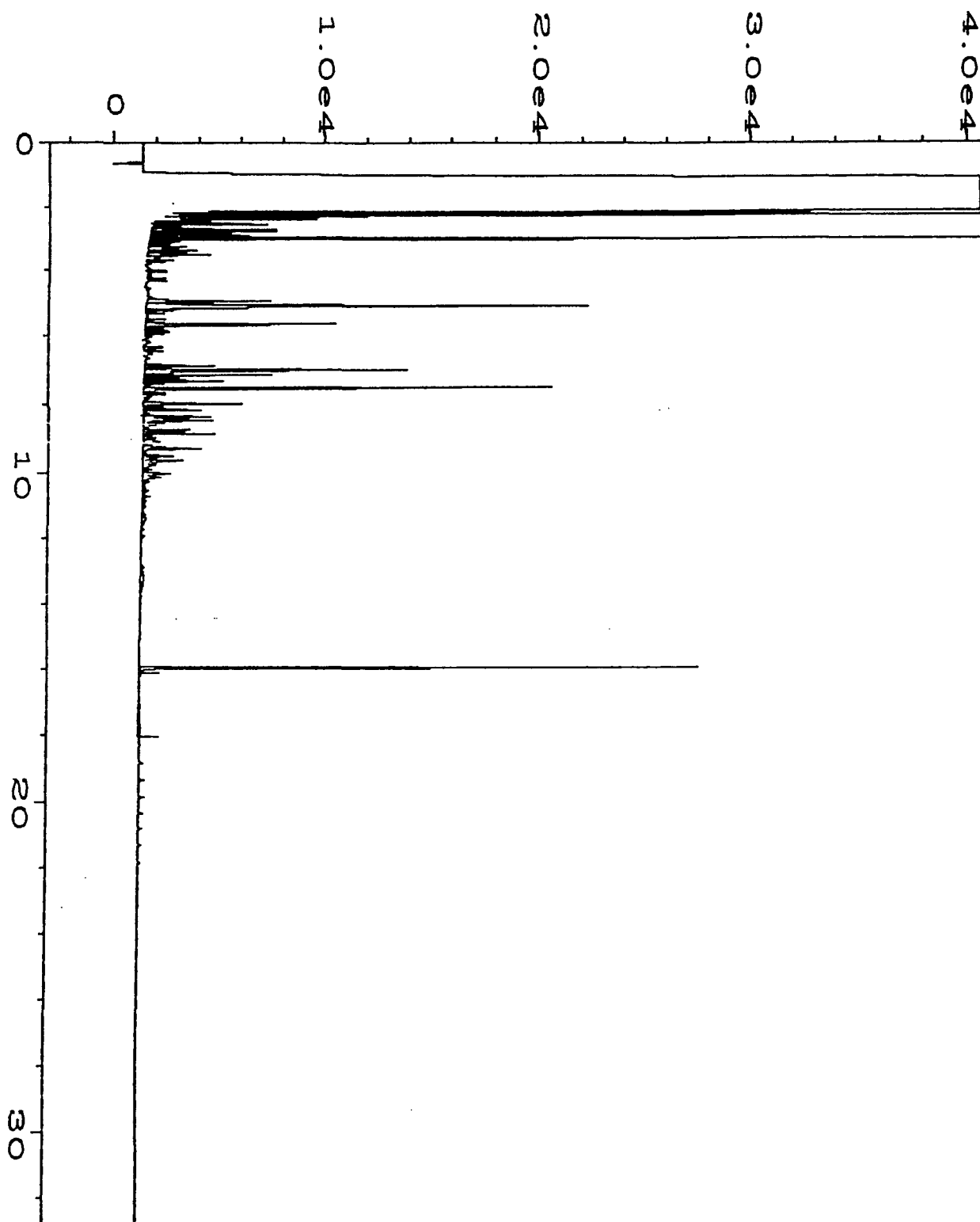


user modified

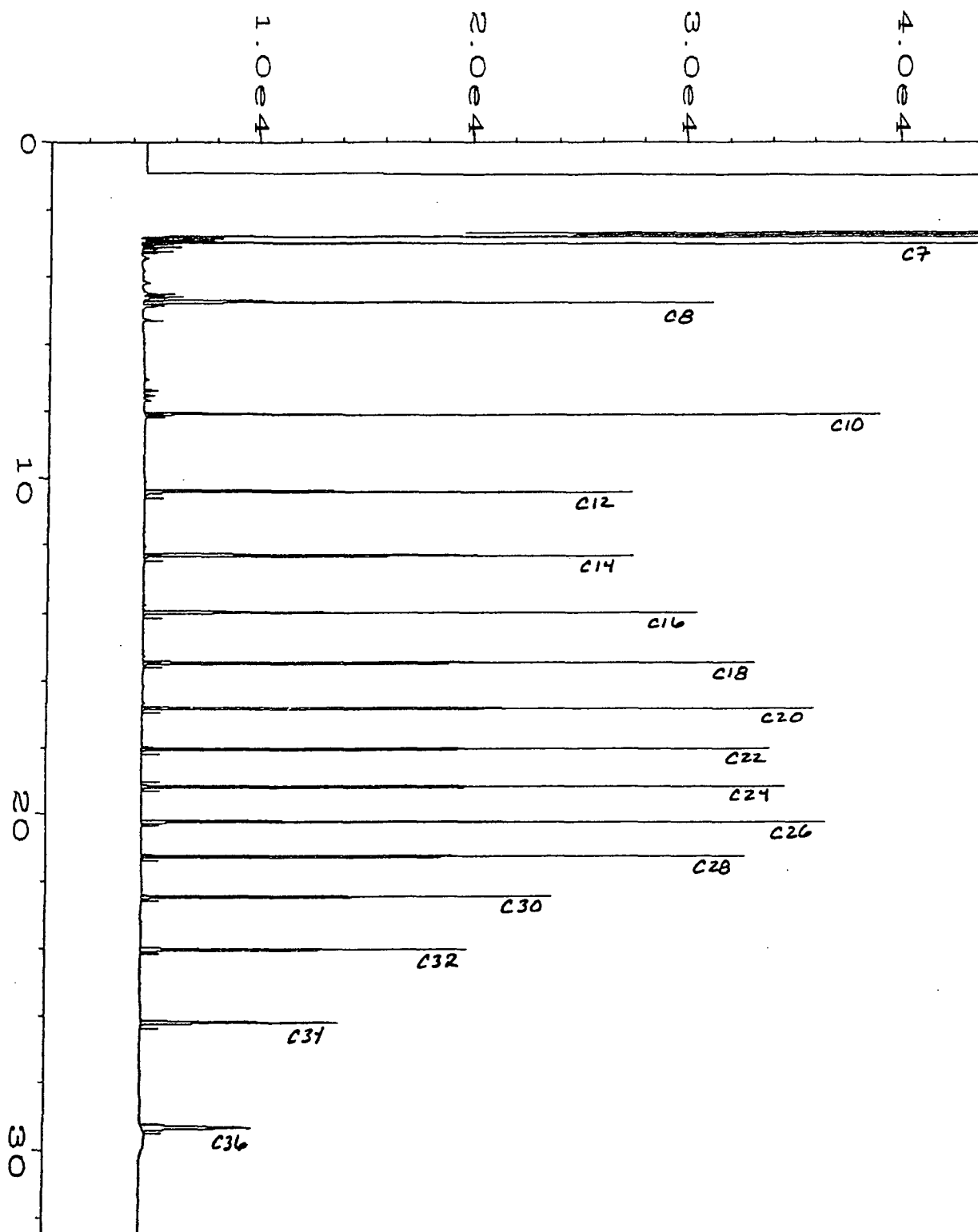
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Operator	: Pinnacle - rg & cff	Vial Number	: 23
Instrument	: FID1	Injection Number	: 1
Sample Name	: 907004-12	Sequence Line	: 1
Run Time Bar Code:		Instrument Method	: HX03169S.MTH
Acquired on	: 08 Jul 99 02:53 AM	Analysis Method	: HX031699.MTH
Report Created on:	: 08 Jul 99 01:45 PM	Sample Amount	: 0
Last Recalib on	: 11 JAN 93 08:58 AM	ISTD Amount	:
Multiplier	: 1		



Data File Name	: C:\HPCHEM\1\DATA\16SEPT97\011F0101.D	Page Number	: 1
Operator	: AEN NM GC #1 FID DI	Vial Number	: 11
Instrument	: INSTRUMEN	Injection Number	: 1
Sample Name	: DSL GC3-103-15	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	SDF0820.MTH
Acquired on	: 16 Sep 97 08:50 PM	Analysis Method	: SDF0820.MTH
Report Created on:	17 Sep 97 11:19 AM		



File Name	: C:\HPCHEM\2\DATA\12FEB99\002F0101.D	Page Number	: 1
Operator	: Pinnacle - mb & cff	Vial Number	: 2
Instrument	: FID1	Injection Number	: 1
Sample Name	: gas gc3-141-23	Sequence Line	: 1
Time Bar Code		Instrument Method	: RT061698.MTH
Acquired on	: 12 Feb 99 10:38 AM	Analysis Method	: RT061698.MTH
Report Created on	: 12 Feb 99 11:45 AM		



user modified

ata File Name : B:\11APR96\004F0101.D
 perator : DJ
 nstrument : GC#1 5890
 ample Name : RET TIME STAND
 un Time Bar Code:
 cquired on : 11 Apr 96 10:17 AM
 eport Created on: 03 Dec 98 02:11 PM

Page Number : 1
 Vial Number : 4
 Injection Number : 1
 Sequence Line : 1
 Instrument Method: SDF0311.MTH
 Analysis Method : RT061698.MTH