

Jenny E. Frost
DEPUTY OIL & GAS INSPECTOR

MAR 27 1998

FIELD PIT SITE ASSESSMENT FORM

Approved

GENERAL

Meter: 93828 Location: JAGUEZ #3
Operator #: 0203 Operator Name: Amoco P/L District: BLOOMFIELD
Coordinates: Letter: E Section 25 Township: 30 Range: 9
Or Latitude _____ Longitude _____
Pit Type: Dehydrator _____ Location Drip: X Line Drip: _____ Other: _____
Site Assessment Date: 4-26-94 Area: 10 Run: 33

SITE ASSESSMENT

NMOCD Zone: (From NMOCD Maps) Inside ☒ (1) Outside ☐ (2)
Land Type: BLM ☐ (1) State ☐ (2) Fee ☒ (3) Indian _____

Depth to Groundwater
Less Than 50 Feet (20 points) ☒ (1)
50 Ft to 99 Ft (10 points) ☐ (2)
Greater Than 100 Ft (0 points) ☐ (3)

Wellhead Protection Area :
Is it less than 1000 ft from wells, springs, or other sources of fresh water extraction? , or ; Is it less than 200 ft from a private domestic water source? ☐ (1) YES (20 points) ☒ (2) NO (0 points)

Horizontal Distance to Surface Water Body
Less Than 200 Ft (20 points) ☐ (1)
200 Ft to 1000 Ft (10 points) ☒ (2)
Greater Than 1000 Ft (0 points) ☐ (3)
Name of Surface Water Body PUMP CANYON
(Surface Water Body : Perennial Rivers, Major Wash, Streams, Creeks, Irrigation Canals, Ditches, Lakes, Ponds)
Distance to Nearest Ephemeral Stream ☐ (1) < 100' (Navajo Pits Only)
☐ (2) > 100'

TOTAL HAZARD RANKING SCORE: 30 POINTS

REMARKS

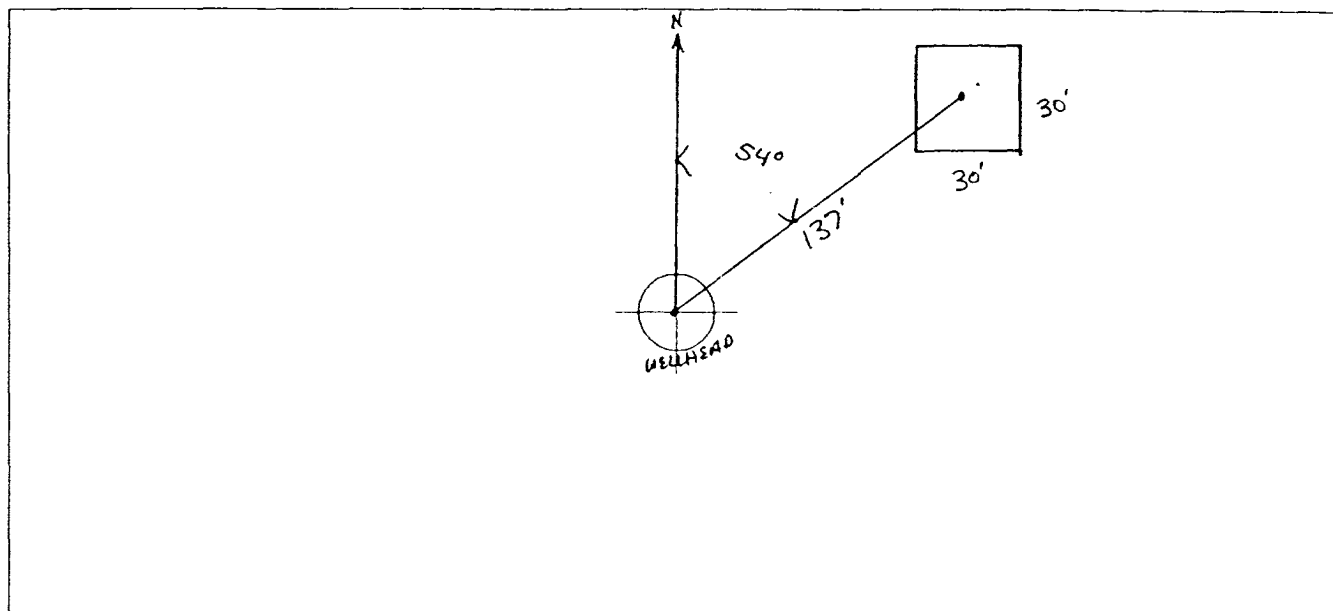
Remarks : ONLY PIT ON LOCATION. PIT IS DRY. LOCATION IS DOWN IN PUMP CANYON, JUST OFF OF HWY 173. REDLINE AND TOPO CONFIRMED LOCATION TO BE INSIDE V.Z.

DIG & HAUL

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North S4° Footage from Wellhead 137'
 b) Length : 30' Width : 30' Depth : 3'

ORIGINAL PIT LOCATION



Remarks :

TOOK PICTURES AT 2:12 P.M.

END DUMP

REMARKS

Completed By:

Bob Champion

Signature

4.26.94

Date

Jaquez #3 PC
Meter Code 93828

Pit was excavated to 10 feet beneath ground surface. The headspace soil reading from excavation bottom was 687 parts per million. Soil analytical were as follows; benzene - <0.12 mg/kg, total BTEX - 54.5 mg/kg, TPH - 919 mg/kg.

One soil boring was completed and a groundwater monitoring well was installed. One soil sample was collected from 14.5-16.5 feet below ground surface. Soil boring analytical results were as follows; benzene - <0.5 mg/kg, total BTEX - 162 mg/kg, TPH - 2,050 mg/kg. Groundwater analytical results were as follows: benzene - 13.8 ppb, toluene - 393 ppb, ethyl benzene - 585 ppb, total xylenes - 5820 ppb

The pit was re-excavated to 15 feet beneath ground surface, and the monitoring well removed. The headspace soil reading from the excavation bottom was 76 ppm. Soil analytical results were as follows; benzene - <0.5 mg/kg, total BTEX - 1.17 mg/kg, TPH - 167 mg/kg.

A Geoprobe survey was conducted, and groundwater samples collected on four sides of the former pit. A groundwater sample from the center of the pit was not obtainable due to a tank placed on the pit. Geoprobe groundwater analytical results were as follows;

PZ -1: benzene - <1 ppb, toluene - <1 ppb, ethyl benzene - <1 ppb, total xylenes - <3 ppb

PZ -2: benzene - <1 ppb, toluene - <1 ppb, ethyl benzene - <1 ppb, total xylenes - <3 ppb

PZ -3: benzene - <1 ppb, toluene - <1 ppb, ethyl benzene - <1 ppb, total xylenes - <3 ppb

PH -1: benzene - <1 ppb, toluene - <1 ppb, ethyl benzene - <1 ppb, total xylenes - <3 ppb

This site is ready for closure based on the following:

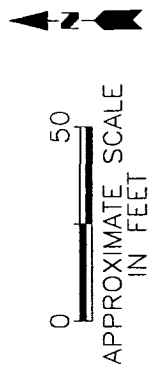
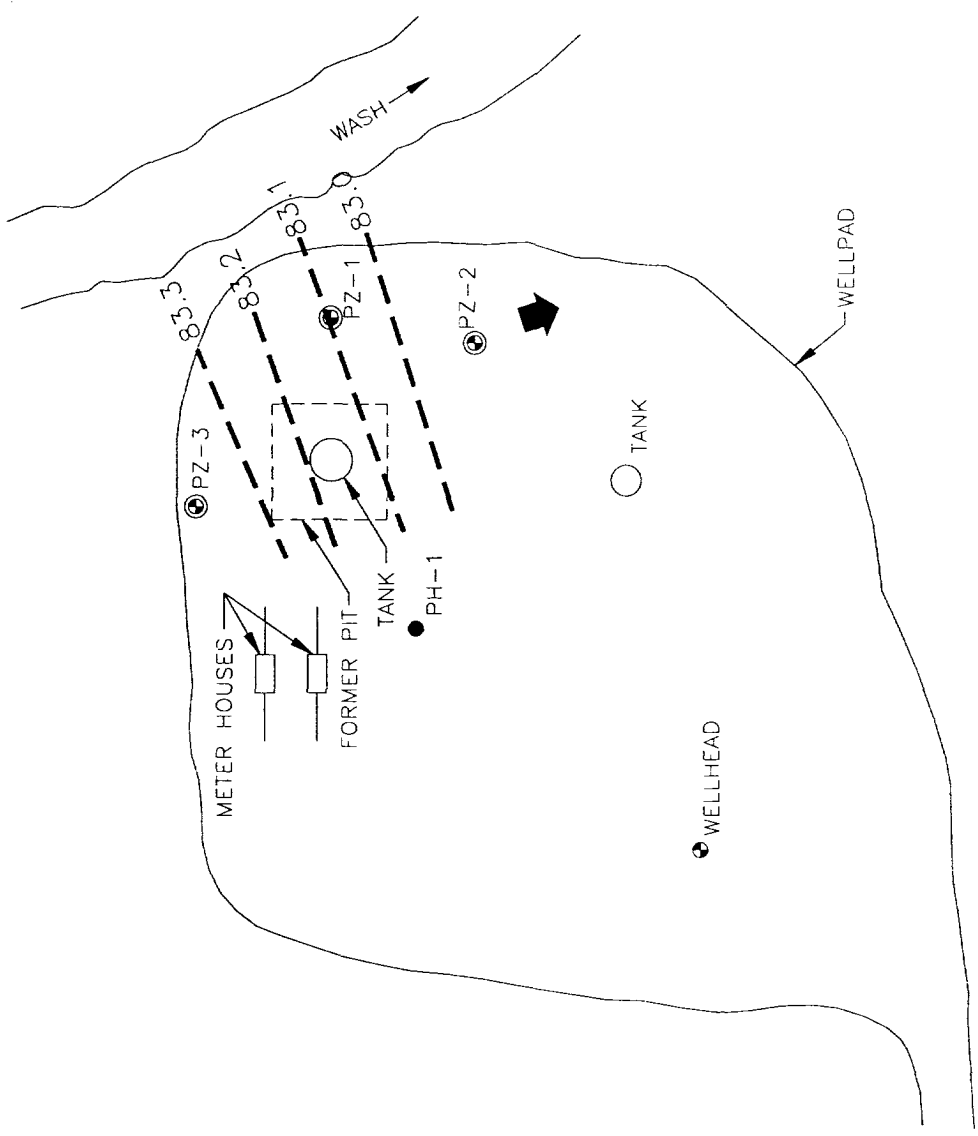
- Phase II re-excavation soil samples were below standards.
- Geoprobe groundwater samples were below standards upgradient and downgradient of the former pit.



1752C

LEGEND

- ⊙ APPROXIMATE PIEZOMETER LOCATION AND NUMBER
- APPROXIMATE PROBE HOLE LOCATION AND NUMBER
- 83.0 GROUNDWATER POTENTIOMETRIC SURFACE
- ➔ APPROXIMATE GROUNDWATER GRADIENT



TITLE: JAQUEZ 3 PC 93828
R9-T30-S25-E

DWN:	TMM	DES.:	CC
CHKD:	CC	APPD:	
DATE:	7/16/97	REV.:	0

PROJECT NO.: 1752C
EPFS PITS

FIGURE 1

1752C-001

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: <u>93828</u> Location: <u>Jaquez #3</u> Coordinates: Letter: <u>E</u> Section <u>25</u> Township: <u>30</u> Range: <u>9</u> Or Latitude _____ Longitude _____ Date Started : <u>5-10-94</u> Area: <u>10</u> Run: <u>33</u>
OBSERVATIONS	Sample Number(s): <u>KD51</u> Sample Depth: <u>10'</u> Feet Final PID Reading <u>687 ppm</u> PID Reading Depth <u>10'</u> Feet Yes No Groundwater Encountered ☐ (1) ☒ (2) Approximate Depth _____ Feet
CLOSURE	Remediation Method : Excavation ☒ (1) Approx. Cubic Yards <u>125</u> Onsite Bioremediation ☐ (2) Backfill Pit Without Excavation ☐ (3) Soil Disposition: Envirotech ☐ (1) ☒ (3) Tierra Other Facility ☐ (2) Name: _____ Pit Closure Date: <u>5-11-94</u> Pit Closed By: <u>BEI</u>
REMARKS	Remarks : <u>Dug to Practical Extent - Very large pit. At 10'</u> <u>Took sample, closed pit.</u>
SIGNATURE	Signature of Specialist: <u>[Signature]</u>

**FIELD SERVICES LABORATORY
ANALYTICAL REPORT
PIT CLOSURE PROJECT**

SAMPLE IDENTIFICATION

SAMPLE NUMBER:

Field ID

KD51

Lab ID

945123

MTR CODE | SITE NAME:

93828

Jaquez #3

SAMPLE DATE | TIME (Hrs):

5/11/94

920

PROJECT:

Phase I Drilling

DATE OF TPH EXT. | ANAL.:

5/12/94

5/12/94

DATE OF BTEX EXT. | ANAL.:

5/17/94

5/19/94

TYPE | DESCRIPTION:

VC

Fire black sand

Field Remarks:

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	<0.12	MG/KG	5	D		
TOLUENE	1.40	MG/KG	5	D		
ETHYL BENZENE	3.10	MG/KG	5	D		
TOTAL XYLENES	50.0	MG/KG	5	D		
TOTAL BTEX	54.5	MG/KG				
TPH (418.1)	919	MG/KG			2.08	28
HEADSPACE PID	687	PPM				
PERCENT SOLIDS	94.3	%				

-- TPH is by EPA Method 418.1 and BTEX is by EPA Method 8020 --

The Surrogate Recovery was at 114 for this sample All QA/QC was acceptable.
The "D" qualifier indicates reported result for this analyte is calculated based on a secondary dilution factor.
V: ve:

DF = Dilution Factor Used

Approved By:

INGVZPIT.XLS

Date:

6/16/97
Reprint

Page 1 of 1

White - Testing Laboratory Canary E-ING Lab Pink Field Sample

White • Testing Laboratory **Canary • F/NG Lab** **Book • Field Study**

RECORD OF SUBSURFACE EXPLORATION

10-33 Bloomfield
PHILIP ENVIRONMENTAL

4000 Monroe Road

Farmington, New Mexico 87401

(505) 326-2262 FAX (505) 326-2388

Borehole # BH 1
Well # MW-1
Page 1 of 1

Project Name EPNG Pits
Project Number 14509 Phase 6000 77
Project Location Jasques 3 PC 93828

Elevation _____
Borehole Location _____
GWL Depth _____
Logged By CM Chance
Drilled By M. Donohue
Date/Time Started 5/19/95 - 0740
Date/Time Completed 5/19/95 - 0805

Well Logged By CM Chance
Personnel On-Site M. Donohue, K. Padilla, F. Rivera
Contractors On-Site _____
Client Personnel On-Site N. Prince
Drilling Method 4 1/4 I.D. HSA
Air Monitoring Method PID, CGT

Depth (Feet)	Sample Number	Sample Interval	Sample Type & Recovery (inches)	Sample Description Classification System: USCS	USCS Symbol	Depth Lithology Change (feet)	Air Monitoring Units: ^{ppm} MBH BZ BH $\frac{H}{S}$			Drilling Conditions & Blow Counts
0				Backfill to 10'						
5										
10										
15	1	14.5-15.5	15"	Bl silty sand, F-med sand, loose, sat.		11	158	289	189	-GW 14.5 -D750 -Hard drilling -22.5 Out of gravel -Drilling hard again -Driller thinks SS
20				-Cobbles from ctyg						
25				TOB 24.5		0	141			
30										
35										
40										

Comments: GW @ 14.5'. Driller to 24.5. Sample 14.5' - 15.5' submitted to lab CM13 for
BTEX & TPH

Geologist Signature

CM Chance

**FIELD SERVICES LABORATORY
ANALYTICAL REPORT
PIT CLOSURE PROJECT**

SAMPLE IDENTIFICATION

SAMPLE NUMBER:

Field ID

CMC13

Lab ID

946824

MTR CODE | SITE NAME:

93828

Jaquez #3

SAMPLE DATE | TIME (Hrs):

5/19/95

750

PROJECT:

Phase II Drilling

DATE OF TPH EXT. | ANAL.:

5/23/95

5/23/95

DATE OF BTEX EXT. | ANAL.:

5/25/95

5/26/95

TYPE | DESCRIPTION:

VG

Black sand

Field Remarks:

RESULTS

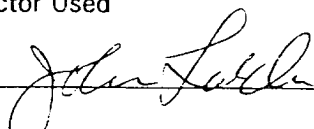
PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	<0.5	MG/KG	20	D		
TOLUENE	<0.5	MG/KG	20	D		
ETHYL BENZENE	12.0	MG/KG	20	D		
TOTAL XYLENES	150	MG/KG	20	D		
TOTAL BTEX	162	MG/KG				
TPH (418.1)	2,050	MG/KG			1.93	28
HEADSPACE PID	1890	PPM				
PERCENT SOLIDS	83.1	%				

-- TPH is by EPA Method 418.1 and BTEX is by EPA Method 8020 --

The Surrogate Recovery was at N/A for this sample All QA/QC was acceptable.
The "D" qualifier indicates reported result for this analyte is calculated based on a secondary dilution factor.
N/A: None

DF = Dilution Factor Used

Approved By:

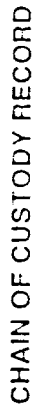


INGVZPIT.XLS

Date:

6/16/97

Reprint



PROJECT NUMBER # 24324		PROJECT NAME Pit Closure Project		DATE 5/19/95	
LAB NO		DATE	TIME	MATRIX	FIELD ID
946824	5/19/95	0750	soil	CMC13	
946825	↓	1052	soil	CMC14	

REQUESTED ANALYSIS		SAMPLE TYPE		TOTAL NUMBERS	
EPA 418.1	3TEX	EPA 8020	LAB PID	PID	SEQUENCE #
✓	✓	✓	✓	1890	13
✓	✓	✓	✓	510	14

RECEIVED BY: (Signature)		DATE/TIME		RECEIVED BY: (Signature)	
[Signature]		5/19/95 1800		[Signature]	
[Signature]		5/19/95 1105		[Signature]	

REQUESTED TURNAROUND TIME:		SAMPLE RECEIPT REMARKS	
☐ ROUTINE	☐ RUSH		
☐ ROUTINE	☐ RUSH	[Signature] Casebeer	

CONTRACT LABORATORY P. O. NUMBER		RESULTS & INVOICES TO:	
		FIELD SERVICES LABORATORY EL PASO NATURAL GAS COMPANY P. O. BOX 4990 FARMINGTON, NEW MEXICO 87499	

MONITORING WELL INSTALLATION RECORD

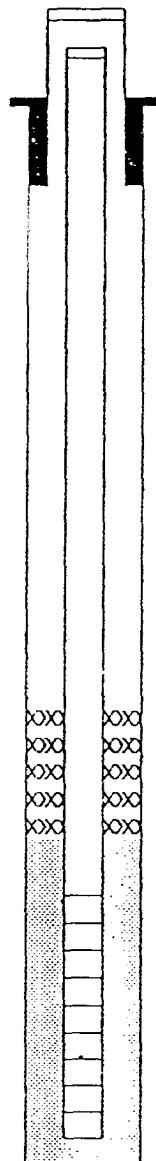
Philip Environmental Services Corp.
4000 Monroe Road
Farmington, New Mexico 87401
(506) 326-2262 FAX (506) 326-2388

Borehole # BH-1
Well # MW-1
Page 1 of 1

Project Name EPN6 Pits
Project Number 14507 Phase 6001
Project Location Jacobs JPC 92225
On-Site Geologist CM Chance
Personnel On-Site M. Donahue, K. Padilla
Contractors On-Site _____
Client Personnel On-Site _____

Elevation _____
Well Location _____
GWL Depth 13.9' BGS
Installed By M. Donahue
Date/Time Started 5/19/95 - 0820
Date/Time Completed 5/19/95 - 0925

Depths in Reference to Ground Surface				
Item	Material	Depth		
Top of Protective Casing			Top of Protective Casing	<u>NA</u>
Bottom of Protective Casing			Top of Riser	<u>+3'</u>
Top of Permanent Borehole Casing			Ground Surface	<u>0'</u>
Bottom of Permanent Borehole Casing		<u>NA</u>		
Top of Concrete		<u>NA</u>		
Bottom of Concrete		<u>NA</u>		
Top of Grout	<u>2-50# bags Type I-II cement</u>	<u>0'</u>		
Bottom of Grout	<u>.25-50# bag bentonite</u>	<u>4'</u>		
Top of Well Riser	<u>12' sch 40</u>	<u>+3'</u>		
Bottom of Well Riser	<u>PVC Riser</u>	<u>8.7'</u>		
Top of Well Screen	<u>15' - 0.01 slot</u>	<u>8.7'</u>	Top of Seal	<u>4'</u>
Bottom of Well Screen	<u>sch 40 PVC</u>	<u>23.7</u>		
Top of Peltonite Seal	<u>1-50# bag No 8</u>	<u>4'</u>	Top of Gravel Pack	<u>6'</u>
Bottom of Peltonite Seal	<u>Enviroplug</u>	<u>6'</u>	Top of Screen	<u>8.7</u>
Top of Gravel Pack	<u>10 1/2-50# 10-20</u>	<u>4.6'</u>		
Bottom of Gravel Pack	<u>silica sand</u>	<u>24.0</u>		
Top of Natural Cave-In		<u>NA</u>		
Bottom of Natural Cave-In		<u>NA</u>		
Top of Groundwater		<u>13.9'</u>	Bottom of Screen	<u>23.7</u>
Total Depth of Borehole		<u>24.0</u>	Bottom of Borehole	<u>24'</u>



Comments: 4" bentonite Hydrated seal w/ 5 gal potable water. Locking well protector & padlock placed on well

Geologist Signature

CM Chance



Well Development and Purging Data

Well Number Meter # 93-828

☒ Development
☐ Purging

Serial No. WDPD-

Page 1 of 1

Project Name EPNG-Drilling

Project Manager C Chance

Project No. 14509

Client Company EPNG

Phase/Task No. 6003.77

Site Name Jacquez 3 PC

Site Address _____

Development Criteria

- ☒ 3 to 5 Casing Volumes of Water Removal
☒ Stabilization of Indicator Parameters
☐ Other _____

Methods of Development

- Pump _____
Bailer _____
☐ Centrifugal ☒ Bottom Valve
☐ Submersible ☐ Double Check Valve
☐ Peristaltic ☐ Stainless-steel Kemmerer
☐ Other _____

Water Volume Calculation

Initial Depth of Well (feet) 27.00
Initial Depth to Water (feet) 17.17
Height of Water Column in Well (feet) 9.83
Diameter (inches): Well 2" Gravel Pack _____

Item	Water Volume in Well		Gallons to be Removed
	Cubic Feet	Gallons	
Well Casing		<u>1.7</u>	<u>1.7</u>
Gravel Pack			
Drilling Fluids			
Total			<u>5.01</u>

Instruments

- Serial No. (If applicable) _____
☒ pH Meter
☐ DO Monitor
☒ Conductivity Meter
☒ Temperature Meter
☐ Other _____

Water Disposal

Into stream

Water Removal Data

Date	Time	Development Method	Removal Rate (gal/min)	Intake Depth (feet)	Ending Water Depth (feet)	Water Volume Removed (gallons)		Product Volume Removed (gallons)		Temperature (°C)	pH	Conductivity (umhos/cm)	Dissolved Oxygen (mg/L)	Comments
						Increment	Cumulative	Increment	Cumulative					
5/31/95	0947					5	5			69.0	6.95	5030		
	1004					5	10			65.4	7.03	4850		
	1014					5	15			64.5	7.17	4950		
	1020					3	18			60.4	7.18	4920		
	1024					2	20			59.1	7.23	4890		
	1032					3	23			60.3	7.19	4950		

Circle the date and time that the development criteria are met.

Comments Sampled at 1035

Developer's Signature(s) _____

Date 5/31/95

Reviewer _____

Date _____



FIELD SERVICES LABORATORY
ANALYTICAL REPORT

PIT CLOSURE PROJECT - PHASE II Monitor Well Water

SAMPLE IDENTIFICATION

SAMPLE NUMBER:	946846
FIELD ID:	SEK6
MTR CODE:	93828
SITE NAME:	Jacquez 3 PC
SAMPLE DATE:	31-May-95
SAMPLE TIME (Hrs):	1035
SAMPLED BY:	SEK
DATE OF BTEX ANALYSIS:	1-Jun-95
SAMPLE TYPE:	Water

REMARKS:

EPA Method 8020 (BTEX) RESULTS

PARAMETER	RESULT PPB	QUALIFIER	WQCC LIMIT PPB
BENZENE	13.8	D	10
TOLUENE	393	D	740
ETHYL BENZENE	585	D	750
TOTAL XYLENES	5820	D,D1	620
SURROGATE % RECOVERY	95.3	Allowed Range 80 to 120 %	

NOTES:

The Total Dissolved Solids (TDS) on this sample was found to be 4,788 ppm.

The TDS test is performed in accordance with EPA Method 160.1.

The "D" Qualifier indicates that the reported result is calculated based on a secondary dilution factor.

The "D1" Qualifier indicates that the analyte result exceeded the calibration curve limit.

Approved By: John L. Smith

6/7/95
Date

White - Testing Laboratory Canary - EPNG Lab Pink - Field Sampler

FIELD PIT REMEDIATION/CLOSURE FORM/PHASE II

GENERAL

Meter: 93828 93831 Location: Jaquez #3 DK & PC
 Coordinates: Letter: E Section 25 Township: 30 Range: 9
 Or Latitude _____ Longitude _____
 Date Started : 6/13/95 Area: _____ Run: _____

FIELD OBSERVATIONS

Sample Number(s): KD 459
 Sample Depth: 15' Feet
 Final PID Reading 76 ppm PID Reading Depth 15' Feet
 Yes No
 Groundwater Encountered ☒ (1) ☐ (2) Approximate Depth 14' Feet
 Final Dimensions: Length 33' Width 28 Depth 15'

CLOSURE

Remediation Method :
 Excavation ☒ (1) Approx. Cubic Yards 210
 Onsite Bioremediation ☐ (2)
 Backfill Pit Without Excavation ☐ (3)
 Overburden Cubic Yards 256
 Soil Disposition:
 Envirotech ☐ (1) ☒ (3) Tierra
 Other Facility ☐ (2) Name: _____
 Pit Closure Date: 6/14/95 Pit Closed By: PEI

REMARKS

Remarks : Before starting Excavation, we put 25lbs of Enviroplug into monitoring well. Removed Core overburden, then stepped Down Excavation and Continued Excavating pit to A Depth of 15', TOOK Composite Sample and closed pit. *Excavation Dimensions on Back*

Signature of Specialist: Kenny Daman

**FIELD SERVICES LABORATORY
ANALYTICAL REPORT
PIT CLOSURE PROJECT**

SAMPLE IDENTIFICATION

SAMPLE NUMBER:	Field ID KD459	Lab ID 946898
MTR CODE SITE NAME:	93828/93831	Jaquez #3
SAMPLE DATE TIME (Hrs):	6/14/95	955
PROJECT:	Phase III Drilling	
DATE OF TPH EXT. ANAL.:	6/15/95	6/15/95
DATE OF BTEX EXT. ANAL.:	6/19/95	6/19/95
TYPE DESCRIPTION:	VC	Brown sand & clay

Field Remarks: _____

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	<0.5	MG/KG				
TOLUENE	<0.5	MG/KG				
ETHYL BENZENE	<0.5	MG/KG				
TOTAL XYLENES	1.17	MG/KG				
TOTAL BTEX	1.17	MG/KG				
TPH (418.1)	167	MG/KG			2.05	28
HEADSPACE PID	76	PPM				
PERCENT SOLIDS	90.8	%				

-- TPH is by EPA Method 418.1 and BTEX is by EPA Method 8020 --

The Surrogate Recovery was at 80.8 for this sample All QA/QC was acceptable.

Reprint:

DF = Dilution Factor Used

Approved By: _____

INGVZPIT.XLS

Date: _____

6/16/97
Reprint

[illegible]

SITE ACTIVITIES

21-Feb-97

Meter/Line #: 93828

Location/Line #: Jacquez 3 PC

MW#:

Depth to GW:

Depth to Product:

Product Thickness:

Date: 10/28/96

Activity: Geoprobe

Comments: Tank on pit. Installed 3 piezos around pit, in addition to one probehole

EL PASO FIELD SERVICES

FIELD SERVICES LABORATORY

ANALYTICAL REPORT

PIT CLOSURE PROJECT

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	CMC231	947962
MTR CODE SITE NAME:	93828	Jacquez #3
SAMPLE DATE TIME (Hrs):	10/28/96	1025
PROJECT:	Geoprobe	
DATE OF BTEX EXT. ANAL.:	10/29/96	10/29/96
TYPE DESCRIPTION:	PZ1	Water

Field Remarks: _____

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q		
BENZENE	< 1	PPB				
TOLUENE	< 1	PPB				
ETHYL BENZENE	< 1	PPB				
TOTAL XYLENES	< 3	PPB				
TOTAL BTEX	< 6	PPB				

—BTEX is by EPA Method 8020—

The Surrogate Recovery was at 111 % for this sample All QA/QC was acceptable.
DF = Dilution Factor Used

Narrative: _____

Approved By: John L. Lohr

Date: 10/30/96



EL PASO FIELD SERVICES

FIELD SERVICES LABORATORY

ANALYTICAL REPORT

PIT CLOSURE PROJECT

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	CMC232	947963
MTR CODE SITE NAME:	93828	Jacquez #3
SAMPLE DATE TIME (Hrs):	10/28/96	1050
PROJECT:	Geoprobe	
DATE OF BTEX EXT. ANAL.:	10/29/96	10/29/96
TYPE DESCRIPTION:	PZ2	Water

Field Remarks: _____

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q		
BENZENE	< 1	PPB				
TOLUENE	< 1	PPB				
ETHYL BENZENE	< 1	PPB				
TOTAL XYLENES	< 3	PPB				
TOTAL BTEX	< 6	PPB				

—BTEX is by EPA Method 8020 —

The Surrogate Recovery was at 112 % for this sample All QA/QC was acceptable.
DF = Dilution Factor Used

Narrative: _____

Approved By: John Ladd

Date: 10/30/96

EL PASO FIELD SERVICES

FIELD SERVICES LABORATORY

ANALYTICAL REPORT

PIT CLOSURE PROJECT

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	CMC233	947964
MTR CODE SITE NAME:	93828	Jacquez #3
SAMPLE DATE TIME (Hrs):	10/28/96	1138
PROJECT:	Geoprobe	
DATE OF BTEX EXT. ANAL.:	10/29/96	10/29/96
TYPE DESCRIPTION:	PZ3	Water

Field Remarks: _____

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q		
BENZENE	< 1	PPB				
TOLUENE	< 1	PPB				
ETHYL BENZENE	< 1	PPB				
TOTAL XYLENES	< 3	PPB				
TOTAL BTEX	< 6	PPB				

—BTEX is by EPA Method 8020 —

The Surrogate Recovery was at 111 % for this sample All QA/QC was acceptable.
DF = Dilution Factor Used

Narrative: _____

Approved By: John F. L. [Signature]

Date: 10/31/96



05717
Natural Gas Company

CHAIN OF CUSTODY RECORD

[illegible]



EL PASO FIELD SERVICES



FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	CMC282	948045
MTR CODE SITE NAME:	93828	Jacquez 3 PC
SAMPLE DATE TIME (Hrs):	12/10/96	1120
PROJECT:	GEOPROBE	
DATE OF BTEX EXT. ANAL.:	12/11/96	12/11/96
TYPE DESCRIPTION:	PH1	Water

Field Remarks: _____

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q		
BENZENE	< 1	PPB				
TOLUENE	< 1	PPB				
ETHYL BENZENE	< 1	PPB				
TOTAL XYLENES	< 3	PPB				
TOTAL BTEX	< 6	PPB				

—BTEX is by EPA Method 8020 —

The Surrogate Recovery was at 92.2 % for this sample All QA/QC was acceptable.
DF = Dilution Factor Used

Narrative: _____

Approved By: John L. Linder

Date: 12/16/96



El Paso
Natural Gas Co.

CHAIN OF CUSTODY RECORD

[illegible]



Analytical**Technologies**, Inc.

2709-D Pan American Freeway, NE Albuquerque, NM 87107
Phone (505) 344-3777 FAX (505) 344-4413

ATI I.D. 405359

May 25, 1994

El Paso Natural Gas Company
P.O. Box 4990
Farmington, NM 87499

Project Name/Number: PIT CLOSURE 24324

Attention: John Lambdin

On 05/13/94, Analytical Technologies, Inc., (ADHS License No. AZ0015), received a request to analyze **non-aqueous** 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.

EPA Method 418.1 analysis was added for sample 945125 on 05/17/94.

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

Letitia Krakowski, Ph.D.
Project Manager

H. Mitchell Rubenstein, Ph.D.
Laboratory Manager

MR:jd

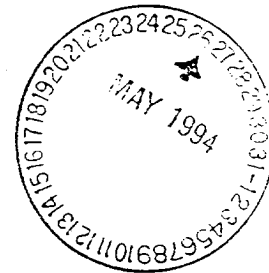
Enclosure



CLIENT : EL PASO NATURAL GAS CO. DATE RECEIVED : 05/13/94
PROJECT # : 24324
PROJECT NAME : PIT CLOSURE REPORT DATE : 05/25/94

ATI ID: 405359

ATI #	CLIENT DESCRIPTION	MATRIX	DATE COLLECTED
01	945108	NON-AQ	05/10/94
02	945109	NON-AQ	05/10/94
03	945110	NON-AQ	05/10/94
04	945111	NON-AQ	05/10/94
05	945112	NON-AQ	05/10/94
06	945123	NON-AQ	05/11/94
07	945124	NON-AQ	05/11/94
08	945125	NON-AQ	05/11/94
09	945126	NON-AQ	05/11/94
10	945127	NON-AQ	05/11/94
11	945128	NON-AQ	05/11/94
12	945129	NON-AQ	05/11/94



---TOTALS---

<u>MATRIX</u>	<u>#SAMPLES</u>
NON-AQ	12

ATI STANDARD DISPOSAL PRACTICE

The samples from this project will be disposed of in thirty (30) days from the date of this report. If an extended storage period is required, please contact our sample control department before the scheduled disposal date.



Analytical Technologies, Inc., Albuquerque, NM
San Diego • Phoenix • Seattle • Pensacola • Ft. Collins • Portland • Albuquerque

CHAIN OF CUSTODY
DATE: 5/12/94 PAGE 1 OF 2

ATLAB ID: 405359

PROJECT MANAGER: John Lambdin

COMPANY: El Paso Natural Gas
ADDRESS: P.O. Box 4990
Farmington, NM 87419

PHONE: (505) 599-2111
FAX: (505) 599-2261

BILL TO: Same as above

COMPANY:
ADDRESS:

SAMPLE ID	DATE	TIME	MATRIX	LAB ID
945108	5/10/94	0915	soil	01
945109	5/10/94	1215	soil	02
945110	5/10/94	0940	soil	03
945111	5/10/94	1210	soil	04
945112	5/10/94	1345	soil	05
945113	5/11/94	0920	soil	06
945124	5/11/94	1400	soil	07
945125	5/11/94	0920	soil	08
945126	5/11/94	1100	soil	09

PROJECT INFORMATION

PROJ. NO.: 24324
PROJ. NAME: P.I. Closure
P.O. NO.: 38552
SHIPED VIA: FEDEX
RECEIVED COLD: Y
RECEIVED INTACT: Y
NO. CONTAINERS: 9
CUSTODY SEALS: Y/N (NA)
RECEIVED BY: [Signature]
DATE: 5-12-94
Phone: 599-2140

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS

(RUSH) ☐ 24hr ☐ 48hr ☐ 72hr ☒ 1 WEEK (NORMAL) ☐ 2 WEEK

Comments: Change Code: 50% 108-52452-24 - 0001-0012-31-2010
50% 108-51570-24 - 0001-0012-31-2010
Sample: 108-51570-24 - 0001-0012-31-2010

SAMPLED & RELINQUISHED BY:

1. SIGNED BY: [Signature] Time: 1645
Printed Name: Steve Snyder Date: 5-12-94
Company: EPNG Phone: 599-2140
2. RECEIVED BY: [Signature] Time: [Blank]
Printed Name: [Blank] Date: [Blank]
Company: [Blank]

ANALYSIS REQUEST

Petroleum Hydrocarbons (418.1)	
(MOD 8015) Gas/Diesel	
Diesel/Gasoline/BTXE/MTBE (MOD 8015/8020)	
BTXE/MTBE (8020)	
Chlorinated Hydrocarbons (601/8010)	
Aromatic Hydrocarbons (602/8020)	
SDWA Volatiles (502.1/503.1), 502.2 Reg. & Unreg.	
Pesticides/PCB (608/8080)	
Herbicides (615/8150)	
Base/Neutral/Acid Compounds GC/MS (625/8270)	
Volatile Organics GC/MS (624/8240)	
Polynuclear Aromatics (610/8310)	
SDWA Primary Standards - Arizona	
SDWA Secondary Standards - Arizona	
SDWA Primary Standards - Federal	
SDWA Secondary Standards - Federal	
The 13 Priority Pollutant Metals	
RCRA Metals by Total Digestion	
RCRA Metals by TCLP (1311)	
NUMBER OF CONTAINERS	1

3. RECEIVED BY: [Signature] Time: 1600
Printed Name: David Davis Date: 5/13/94
Company: Analytical Technologies, Inc.



GAS CHROMATOGRAPHY RESULTS

TEST : EPA 8015 MODIFIED
CLIENT : EL PASO NATURAL GAS CO. ATI I.D.: 505387
PROJECT # : 24324
PROJECT NAME : PIT CLOSURE

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
01	946822	NON-AQ	05/18/95	05/24/95	05/25/95	1
02	946824	NON-AQ	05/19/95	05/24/95	05/30/95	1
05	946827	NON-AQ	05/22/95	05/24/95	05/25/95	1

PARAMETER	UNITS	01	02	05
FUEL HYDROCARBONS	MG/KG	180	1000	410
HYDROCARBON RANGE		C14-C32	C7-C20	C7-C20
HYDROCARBONS QUANTITATED USING		DIESEL	DIESEL	DIESEL

SURROGATE:

O-TERPHENYL (%)	92	111	110
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Analytical **Technologies**, Inc.

2709-D Pan American Freeway, NE Albuquerque, NM 87107
Phone (505) 344-3777 FAX (505) 344-4413

ATI I.D. 505387

June 2, 1995

El Paso Natural Gas Co.
P.O. Box 4990
Farmington, NM 87499

Project Name/Number: PIT CLOSURE 24324

Attention: John Lambdin

On 05/24/95, Analytical Technologies, Inc., (ADHS License No. AZ0015), received a request to analyze **non-aqueous** 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.

Letitia Krakowski, Ph.D.
Project Manager

H. Mitchell Rubenstein, Ph.D.
Laboratory Manager

MR:jt

Enclosure





Analytical**Technologies**, Inc.

2709-D Pan American Freeway, NE Albuquerque, NM 87107
Phone (505) 344-3777 FAX (505) 344-4413

ATI I.D. 506376

June 21, 1995

El Paso Natural Gas Co.
P.O. Box 4990
Farmington, NM 87499

Project Name/Number: PIT CLOSURE/PHASE II 24324

Attention: John Lambdin

On 06/16/95, Analytical Technologies, Inc., (ADHS License No. AZ0015), received a request to analyze **non-aqueous** 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.

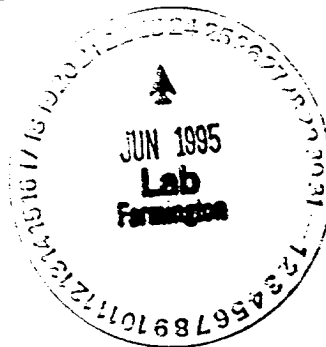
If you have any questions or comments, please do not hesitate to contact us at (505) 344-3777.

Kimberly D. McNeill
Project Manager

H. Mitchell Rubenstein, Ph.D.
Laboratory Manager

MR:jtc

Enclosure



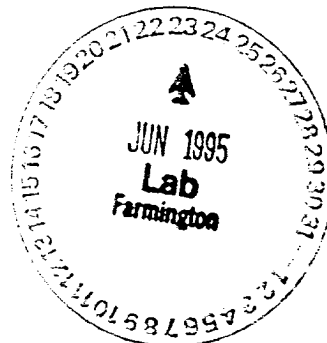


Analytical Technologies, Inc.

CLIENT : EL PASO NATURAL GAS CO. DATE RECEIVED : 06/16/95
PROJECT # : 24324
PROJECT NAME : PIT CLOSURE/PHASE II REPORT DATE : 06/21/95

ATI ID: 506376

ATI #	CLIENT DESCRIPTION	MATRIX	DATE COLLECTED
01	946891	NON-AQ	06/13/95
02	946892	NON-AQ	06/13/95
03	946893	NON-AQ	06/13/95
04	946894	NON-AQ	06/13/95
05	946895	NON-AQ	06/13/95
06	946896	NON-AQ	06/13/95
07	946897	NON-AQ	06/13/95
08	946898	NON-AQ	06/14/95
09	946899	NON-AQ	06/14/95
10	946900	NON-AQ	06/14/95
11	946901	NON-AQ	06/14/95
12	946902	NON-AQ	06/14/95
13	946903	NON-AQ	06/14/95
14	946904	NON-AQ	06/14/95
15	946905	NON-AQ	06/14/95



---TOTALS---

<u>MATRIX</u>	<u>#SAMPLES</u>
AQUEOUS	15

ATI STANDARD DISPOSAL PRACTICE

The samples from this project will be disposed of in thirty (30) days from the date of this report. If an extended storage period is required, please contact our sample control department before the scheduled disposal date.



Analytical Technologies, Inc.

GENERAL CHEMISTRY - QUALITY CONTROL

CLIENT : EL PASO NATURAL GAS CO. ATI I.D. : 506376
PROJECT # : 24324 SAMPLE MATRIX : NON-AQ
PROJECT NAME : PIT CLOSURE/PHASE II UNITS : MG/KG

PARAMETER	ATI I.D.	SAMPLE RESULT	DUP. RESULT	RPD	SPIKED SAMPLE	SPIKE CONC.	% REC
PETROLEUM HYDROCARBONS	061695	<20	<20	NA	170	150	113

Accepted
Q
6/12/05

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

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

ANALYSIS REQUEST

EL PASO NATURAL GAS
P.O. BOX 4990
FARMINGTON, NM 87499
(505) 599-2144
(505) 599-2261

SAME AS ABOVE

BILL TO:
COMPANY:
ADDRESS:

SAMPLE ID	DATE	TIME	MATRIX	LAB ID
946891	6-13-95	6756	Soil	01
946892	↑	1007	↑	02
946893	↑	1320	↑	03
946894	↑	1441	↑	04
946895	↑	6845	↑	05
946896	↑	6845	↑	06
946897	6-13-95	1214	↑	07
946898	6-14-95	0955	↑	08
946899	6-14-95	0722	Soil	09

PROJECT INFORMATION		SAMPLE RECEIPT	
PROJ. NO:	24324	NO CONTAINERS	9
PROJ NAME:	PIT CLOSURE / phase 4	CUSTODY SEALS	DN / NA
P.O. NO:	38822	RECEIVED INTACT	✓
SHIPPED VIA: FEDERAL EXPRESS		RECEIVED COLD	✓ 20
PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS (RUSH) ☐ 24hr ☐ 48hr ☒ 72hr (NORMAL) ☐ 2 WEEK			

Comments:	CHARGE CODE: 50% 108-51570-24-0001-0012-31-2010 50% 108-52452-24-0001-0012-31-2010	2310
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QA/QC ON PROJECT SAMPLES

SAMPLED & RELINQUISHED BY: 1.		RELINQUISHED BY: 2.		RELINQUISHED BY: 3.	
Signature:	Time:	Signature:	Time:	Signature:	Time:
Printed Name:	Date:	Printed Name:	Date:	Printed Name:	Date:
Company:	Phone:	Company:		Company:	

RECEIVED BY: 1.		RECEIVED BY: 2.		RECEIVED BY: (LAB) 3.	
Signature:	Time:	Signature:	Time:	Signature:	Time:
Printed Name:	Date:	Printed Name:	Date:	Printed Name:	Date:
Company:		Company:		Analytical Technologies, Inc.	

[illegible]



DATE: 6/17/95 95 PAGE 2 OF 2

PROJECT MANAGER: JOHNN LAMBIDIN

COMPANY: EL PASO NATURAL GAS

ADDRESS: P.O. BOX 49901

FARMINGTON, NM 87499

PHONE: (505) 599-2144

FAX: (505) 599-2261

BILL TO: SAME; AS ABOVE

COMPANY:

ADDRESS:

SAMPLE ID	DATE	TIME	MATRIX	LAB ID
946900	6-14-98	0945	Soil	10
946901	↑	1225	↑	11
946902	↓	1520	↓	12
946903	↓	0700	↓	13
946904	↓	1400	↓	14
946905	6-14-98	1530	Soil	15

PROJECT INFORMATION		SAMPLE RECEIPT	
PROJ. NO.: 24324		NO. CONTAINERS	5
PROJ. NAME: PIT CLOSURE / Phase II		CUSTODY SEALS	Y N / NA
P.O. NO.: 38X22		RECEIVED INTACT	Y
SHIPPED VIA: FEDERAL EXPRESS		RECEIVED COLD	Y Joe

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS

(RUSH) ☐ 24hr ☐ 48hr ☐ 72hr ☒ 1 WEEK

Comments:	7210
CHARGE CODE: 50% 108-51570-24-0001-0012-31-2010	
50% 108-52452-24-0001-0012-31-2010	

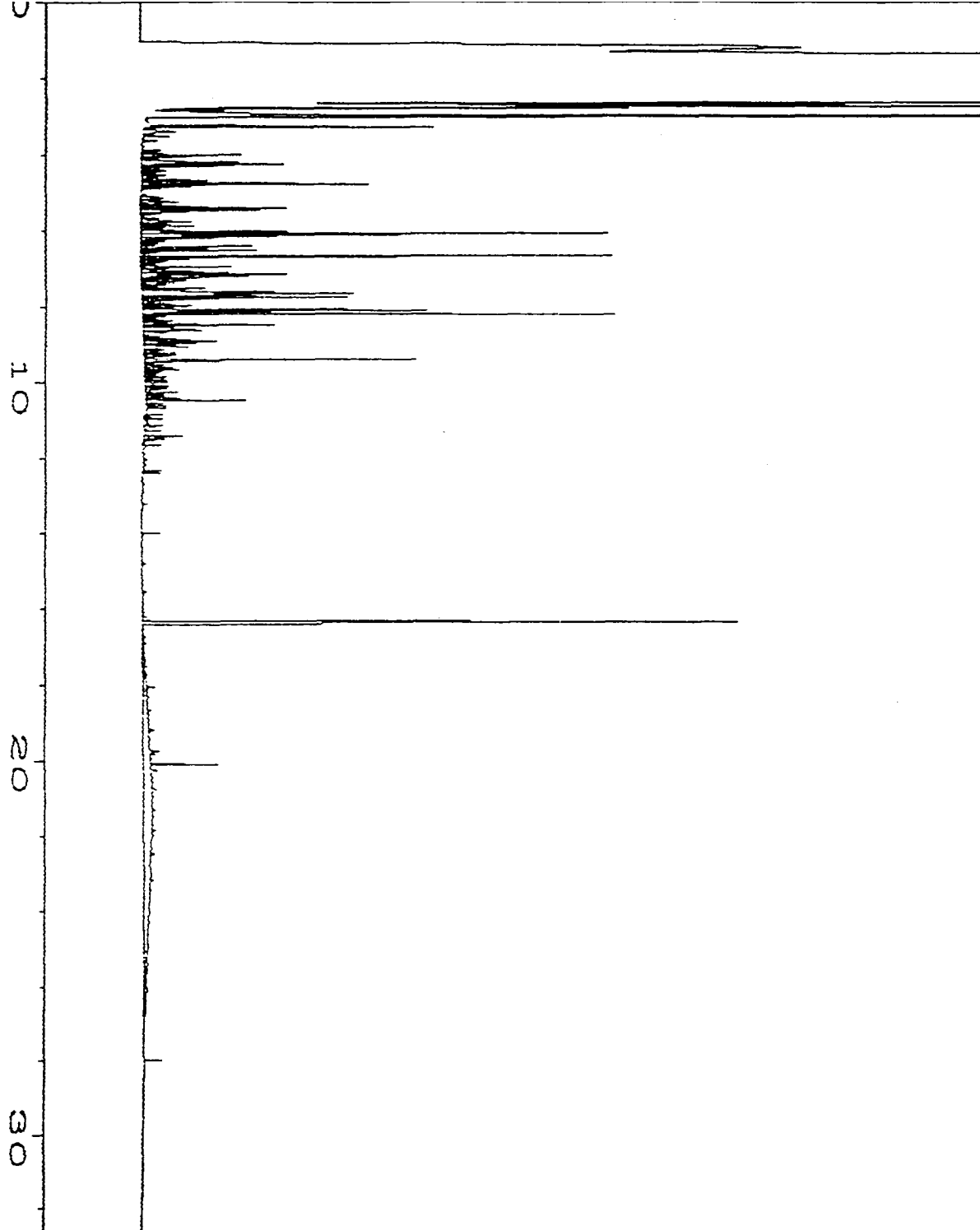
OAVOC ON PROJECT SAMPLES

SAMPLED & RELINQUISHED BY: 1.			RELINQUISHED BY: 2.			RELINQUISHED BY: 3.		
Signature:	Time:		Signature:	Time:		Signature:	Time:	
Printed Name:	Date:		Printed Name:	Date:		Printed Name:	Date:	
Company:	Phone:		Company:			Company:		
RECEIVED BY: 1. Signature: _____ Time: _____ Printed Name: _____ Date: _____ Company: _____			RECEIVED BY: 2. Signature: _____ Time: _____ Printed Name: _____ Date: _____ Company: _____			RECEIVED BY: (LAB) 3. Signature: _____ Time: _____ Printed Name: _____ Date: _____ Company: _____		

ATI Labs: San Diego (619) 458-9141 • Phoenix (602) 496 4400 • Seattle (206) 228-8335 • Pensacola (904) 474-1001 • Portland (503) 684-0447 • Albuquerque (505) 344-3777

Code: : C:\HPCHEM\1\DATA\19JUN95\006F0501.D
: CF & JE & KM Page Number : 1
: GC#1 5890 Vial Number : 6
: 506376-05 Injection Number : 1
Sequence Line : 5

e : C:\HPCHEM\1\DATA\19JUN95\007F0501.D
: CF & JE & KM Page Number : 1
: GC#1 5890 Vial Number : 7
: 506376-06 Injection Number : 1
Code: Sequence Line : 5

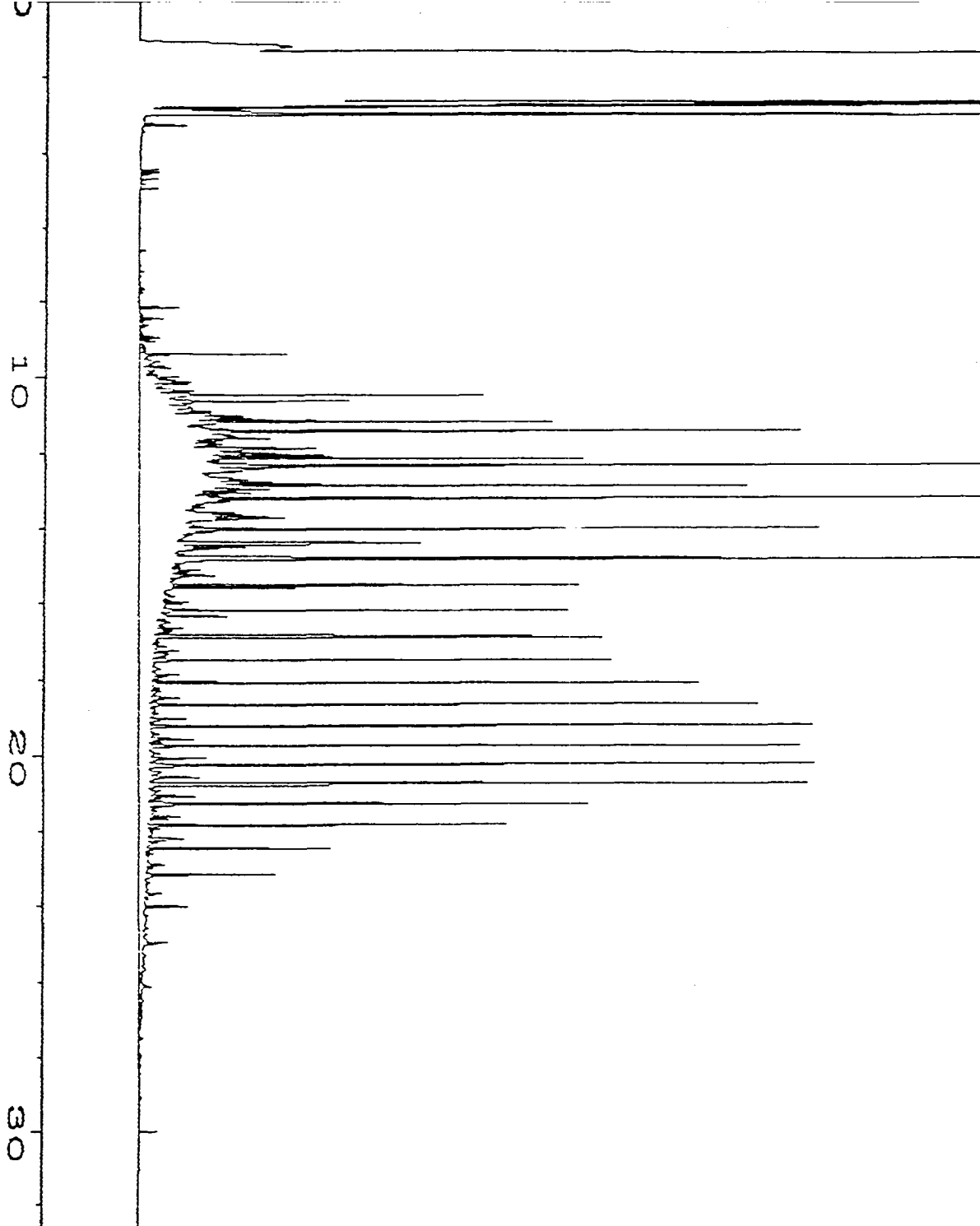


ata File Name	: C:\HPCHEM\1\DATA\19JUN95\008F0501.D	Page Number	: 1
operator	: CF & JE & KM	Vial Number	: 8
Instrument	: GC#1 5890	Injection Number	: 1
Sample Name	: 506376-07	Sequence Line	: 5
Time Base Code			

e : C:\HPCHEM\1\DATA\16JUN95\012F0101.D
: CF & JE & KM Page Number : 1
: GC#1 5890 Vial Number : 12
: 506376-08 Injection Number : 1
Code: Sequence Line : 1

e : C:\HPCHEM\1\DATA\16JUN95\013F0101.D
: CF & JE & KM Page Number : 1
: GC#1 5890 Vial Number : 13

e : C:\HPCHEM\1\DATA\16JUN95\017F0101.D
: CF & JE & KM Page Number : 1
: GC#1 5890 Vial Number : 17
: 506376-10 Injection Number : 1
Code: Sequence Line : 1



ata File Name	: C:\HPCHEM\1\DATA\19JUN95\009F0501.D	Page Number	: 1
perator	: CF & JE & KM	Vial Number	: 9
nstrument	: GC#1 5890	Injection Number	: 1
ample Name	: 506376-12*10	Sequence Line	: 5
un Time Bar Code:		Instrument Method	: SDF1219.MTH
quired on	: 19 Jun 95 03:49 PM	Analysis Method	: SDF1219.MTH

ie : C:\HPCHEM\1\DATA\19JUN95\010F0501.D
: CF & JE & KM Page Number : 1
: GC#1 5890 Vial Number : 10
: 506376-13 Injection Number : 1
Code: Sequence Line : 5
Treatment Method: GDF1210.MTU

e : C:\HPCHEM\1\DATA\19JUN95\011F0501.D
: CF & JE & KM Page Number : 1
: GC#1 5890 Vial Number : 11
: 506376-15 Injection Number : 1
Code: Sequence Line : 5

C7

C8

C9

C10

C12

C14

C16

C18

C20

C22

C24

C28

C32

C36

e : C:\HPCHEM\1\DATA\11APR95\006F0301.D

: CF & JE & KM

: GC#1 5890

: RT STD

Code:

: 11 Apr 95 01:43 PM

: 11 Apr 95 01:28 PM

Page Number : 1

Vial Number : 6

Injection Number : 1

Sequence Line : 3

Instrument Method: SDF1219.MTH

Analysis Method : SDF1219.MTH

e : C:\HPCHEM\1\DATA\16JUN95\015F0101.D
: CF & JE & KM Page Number : 1
: GC#1 5890 Vial Number : 15
: DSL Injection Number : 1
Code: Sequence Line : 1

: C:\HPCHEM\1\DATA\16JUN95\021F0201.D
: CF & JE & KM
: GC#1 5890
: GAS
Code: 17 JUN 95 05:00 AM
Page Number : 1
Vial Number : 21
Injection Number : 1
Sequence Line : 2