DEPUTY OIL & GAS INSPECTOR

EL PASO FIELD SERVICES
PRODUCTION PIT CLOSURE

DEC 2 1 1998

RECEIVED
JUL 2 1999

J.F. BELL #2E
Meter/Line ID - 94310

SITE DETAILS

Legals - Twn: 30 **Rng:** 13 **Sec:** 03 **Unit:** P
NMOCD Hazard Ranking: 30 **Land Type:** 2 - Federal
Operator: AMOCO PRODUCTION COMPANY **Pit Closure Date: 04/20/94**

RATIONALE FOR RISK-BASED CLOSURE:

The above mentioned production pit was assessed and ranked according to the criteria in the New Mexico Conservation Division's Unlined Surface Impoundment Closure Guidelines.

The primary source, discharge to the pit, has been removed. There has been no discharge to the production pit for at least five years and the pit has been closed for at least three years.

The production pit has been remediated to the practical extent of the trackhoe or to the top of bedrock. Initial laboratory analysis has indicated that the soil remaining at the bottom of the excavation is above standards based on the hazard ranking score. Contaminated soil was removed and transported to an approved landfarm for disposal. The initial excavation was backfilled with clean soil and graded in a manner to divert precipitation away from the excavated area. Any rainfall that does infiltrate the ground surface must migrate through clean backfill before reaching any residual hydrocarbons remaining in the soil. Therefore, further mobility of residual hydrocarbons is unlikely.

Since the soil samples from the initial excavation were above standards, a test boring was drilled and a sample was collected to evaluate the vertical extent of impact to soils. Test boring sample results indicated soils below standards beneath the original excavation.

El Paso Field Services Company (EPFS) requests closure of the above mentioned production pit location for the following reasons:

- Discharge to the pit has not occurred in over five years and the pit has been closed for over three years.
- The bulk of the impacted soil was removed during the initial excavation.
- The excavation was backfilled with clean soil and graded to divert precipitation away from the excavation area.
- All source material has been removed from the ground surface, eliminating potential direct contact with livestock and the general public.
- Groundwater was not encountered in the initial excavation or test boring; therefore, impact to groundwater is unlikely.
- Soil samples collected beneath the initial excavation were below standards.
- No potential receptors are within 1,000 feet of the site.
- Residual hydrocarbons remaining in the soil at the bottom of the initial excavation will naturally degrade in time with minimal risk to the environment.

FIELD PIT SITE ASSESSMENT FORM

GENERAL

Meter: 94310 Location: J. F. BELL #2E

Operator #: 0203 Operator Name: M.R. SCHALK P/L District: KUTZ

Coordinates: Letter: P Section 3 Township: 30 Range: 13

Or Latitude _____ Longitude _____

Pit Type: Dehydrator X Location Drip: ___ Line Drip: ___ Other: ___

Site Visit Date: 3·24·94 Run: 02 31

SITE ASSESSMENT

NMOCD Zone: (From NMOCD Maps)
Inside Vulnerable Zone ☒
Outside ☐

Land Type:
BLM ☒
State ☐
Fee ☐
Indian _____

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

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? ☐ YES (20 points) ☒ NO (0 points)

Horizontal Distance to Surface Water Body
Less Than 200 Ft (20 points) ☐
200 Ft to 1000 Ft (10 points) ☐
Greater Than 1000 Ft (0 points) ☒
Name of Surface Water Body _____
(Surface Water Body : Perennial Rivers,Major Wash,Streams,Creeks, Irrigation Canals,Ditches,Lakes,Ponds)

TOTAL HAZARD RANKING SCORE: 0 **POINTS**

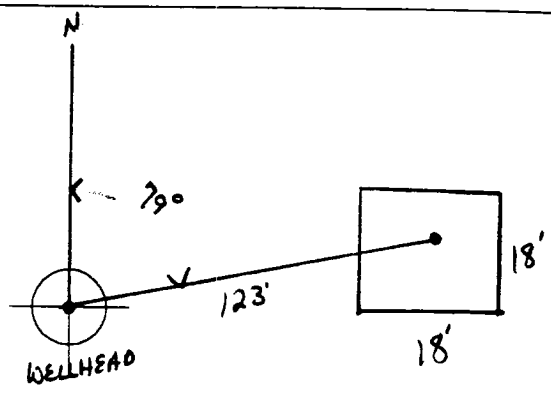
REMARKS

Remarks : THREE PITS ON LOCATION. WILL CLOSE ONLY ONE. PIT IS DRY.

ORIGINAL PIT LOCATION

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 79° Footage to Wellhead 123'
b) Degrees from North _____ Footage to Dogleg _____
Dogleg Name _____
c) Length : 18' Width : 18' Depth : 3'



REMARKS

Remarks :

STARTED TAKING PICTURES AT 9:20 A.M.
END DUMP

Completed By:

Robert Thompson
Signature

3-22-94
Date

4.22.94
RT

FIELD PIT SITE ASSESSMENT FORM

GENERAL

Meter: 94310 Location: J.F. BELL #2E

Operator #: _____ Operator Name: _____ P/L District: _____

Coordinates: Letter: ___ Section ___ Township: ___ Range: ___

Or Latitude _____ Longitude _____

Pit Type: Dehydrator ___ Location Drip: ___ Line Drip: ___ Other: _____

Site Assessment Date: _____ Area: 02 Run: 31

SITE ASSESSMENT

NMOCD Zone: (From NMOCD Maps)

Inside ☐ (1)

Outside ☐ (2)

Land Type:

BLM ☐ (0)

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 NORTH TOJIN WASH

(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 : _____

PHASE I
EXCAVATION

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL

Meter: 94310 Location: J.F. Bell #2E

Coordinates: Letter: P Section 3 Township: 30 Range: 13

Or Latitude _____ Longitude _____

Date Started : 4-20-94 Area: 02 Run: 31

FIELD OBSERVATIONS

Sample Number(s): 940841 KD15 _____ _____ _____

Sample Depth: 12' Feet

Final PID Reading 224 ppm PID Reading Depth 12' Feet

Yes No

Groundwater Encountered ☐ (1) ☒ (2) Approximate Depth _____ Feet

CLOSURE

Remediation Method :

Excavation ☐ (1) Approx. Cubic Yards 0

Onsite Bioremediation ☐ (2)

Backfill Pit Without Excavation ☒ (3)

Soil Disposition:

Envirotech ☐ (1) ☒ (3) Tierra

Other Facility ☐ (2) Name: _____

Pit Closure Date: 4-20-94 Pit Closed By: BEI

REMARKS

Remarks : Dug test hole to 12' Ft took PID Sample. Closed pit.

Signature of Specialist: Kenny Dean

(SP3191) 04/07/94

El Paso Natural Gas Company

RE RUN BTEX 1.0g and 30 ml MeOH

FIELD SERVICES LABORATORY
ANALYTICAL REPORT
PIT CLOSURE PROJECT - Soil

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	1CD15	94084
MTR CODE | SITE NAME:	94310	N/A
SAMPLE DATE | TIME (Hrs):	4/20/94	1445
SAMPLED BY:	N/A	
DATE OF TPH EXT. | ANAL.:	N/A	N/A
DATE OF BTEX EXT. | ANAL.:	5/3/94	5/17/94
TYPE | DESCRIPTION:	VG	Dark Brown Sand/Clay

REMARKS: Re-Run BTEX - 1.0 gms soil in 30ml MeOH

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	~~<0.1~~ 0.27	MG/KG				
TOLUENE	9.97	MG/KG				
ETHYL BENZENE	0.712	MG/KG				
TOTAL XYLENES (8.21+2.62)	~~8.21~~ 10.83	MG/KG				
TOTAL BTEX	~~0~~ 21.6	MG/KG	0.0297		1.01	30
TPH (418.1)	762	MG/KG				
HEADSPACE PID	224	PPM				
PERCENT SOLIDS	90.4	%				

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

The Surrogate Recovery was at 93.6 % for this sample All QA/QC was acceptable.

Narrative:

DF = Dilution Factor Used

Approved By: John Saenz Date: 5/21/94

El Paso Natural Gas Company

FIELD SERVICES LABORATORY
ANALYTICAL REPORT
PIT CLOSURE PROJECT - Soil

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	KD15	940841
MTR CODE | SITE NAME:	94310	N/A
SAMPLE DATE | TIME (Hrs):	4/20/94	1445
SAMPLED BY:		N/A
DATE OF TPH EXT. | ANAL.:	4-22-94	4-22-94
DATE OF BTEX EXT. | ANAL.:		
TYPE | DESCRIPTION:	VG	Dark Brown Sand/Clay

REMARKS: _____

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE		MG/KG				
TOLUENE		MG/KG				
ETHYL BENZENE		MG/KG				
TOTAL XYLENES		MG/KG				
TOTAL BTEX		MG/KG	.5882		1.02	30
TPH (418.1)	762	MG/KG			2.04	28
HEADSPACE PID	224	PPM				
PERCENT SOLIDS	90.4%	%				

IDF / 2

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

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

Narrative:

DF = Dilution Factor Used

Approved By: _____ Date: _____

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*****************************************************
*                    Test Method for                *
*      Oil and Grease and Petroleum Hydrocarbons    *
*                 in Water and Soil                 *
*                                                   *
*            Perkin-Elmer Model 1600 FT-IR          *
*                  Analysis Report                  *
*****************************************************

10/04/12   10:51

  Sample identification
can84

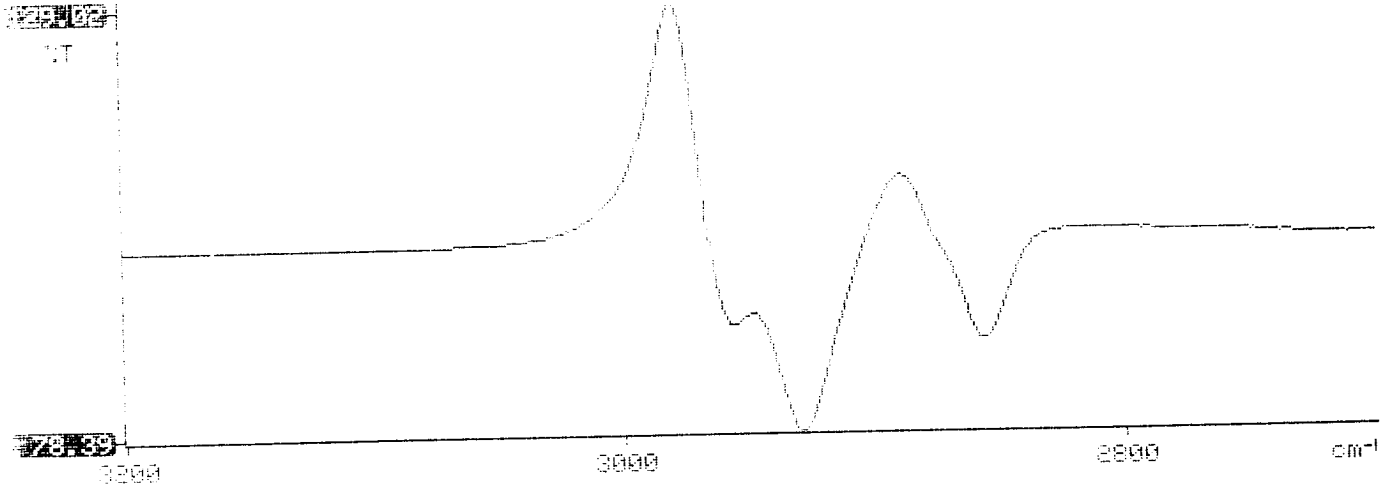
  Initial mass of sample, g
1.040

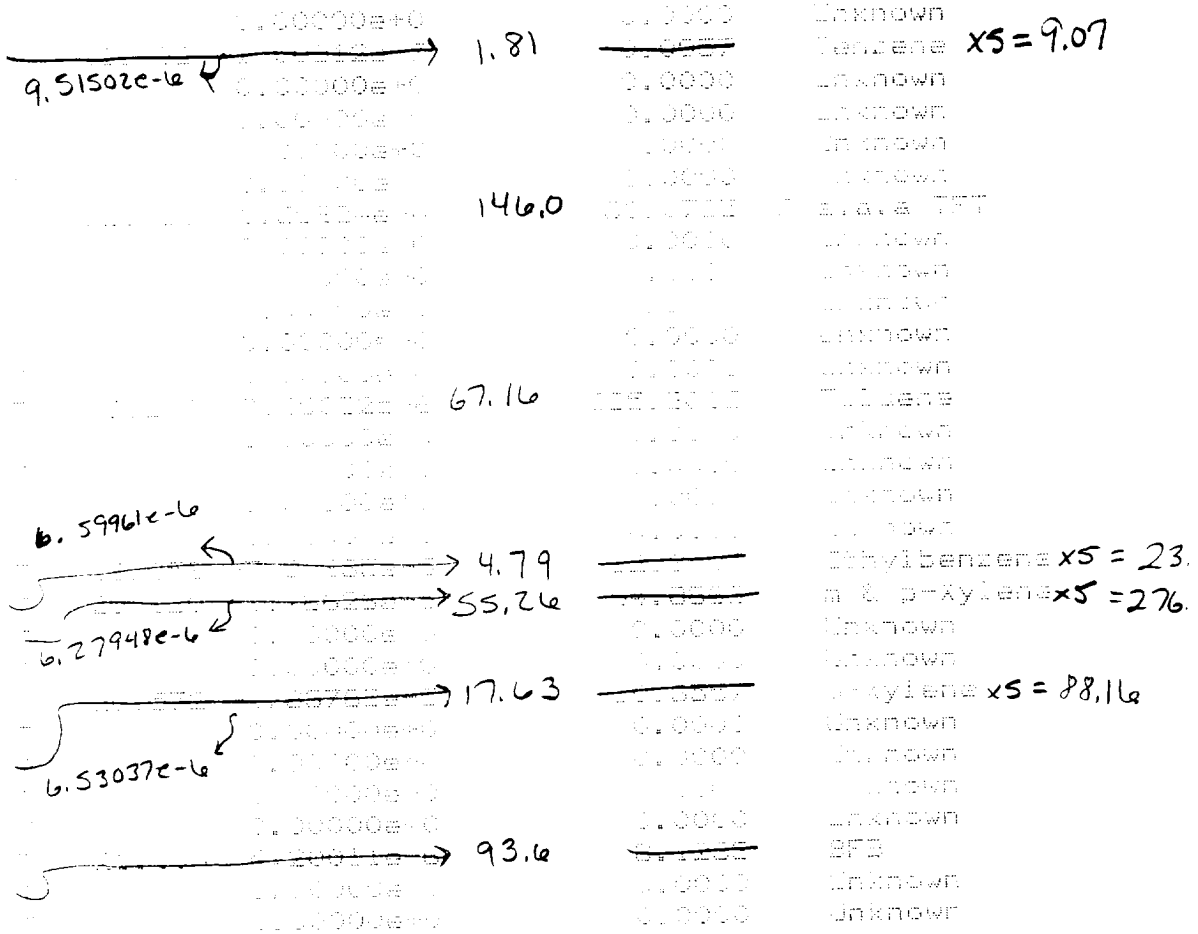
  Volume of sample after extraction, ml
28.000

  Petroleum hydrocarbons, ppm
762.167
  Net absorbance of hydrocarbons (2930 cm-1)
.109
```

10:51

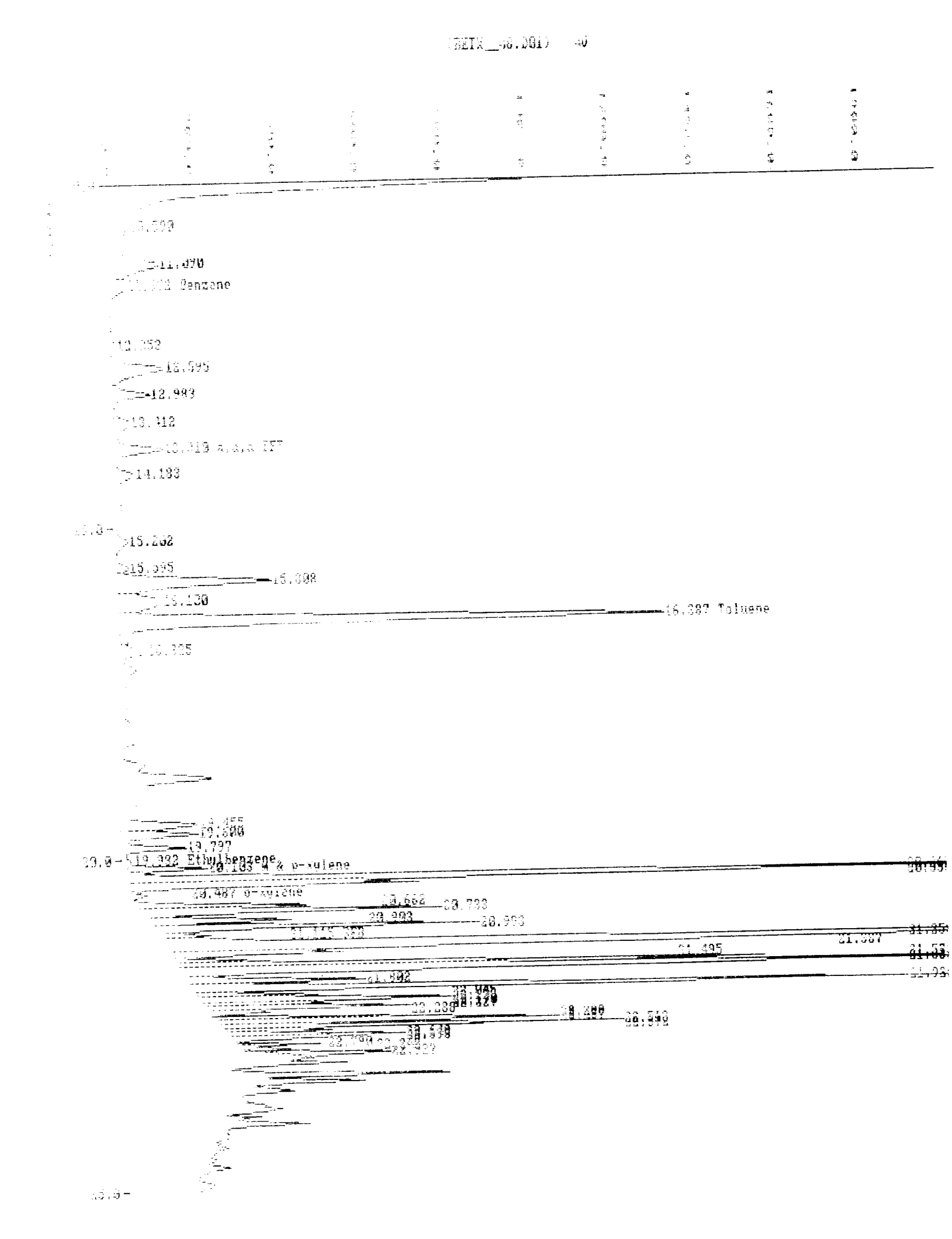
Petroleum hydrocarbons spectrum

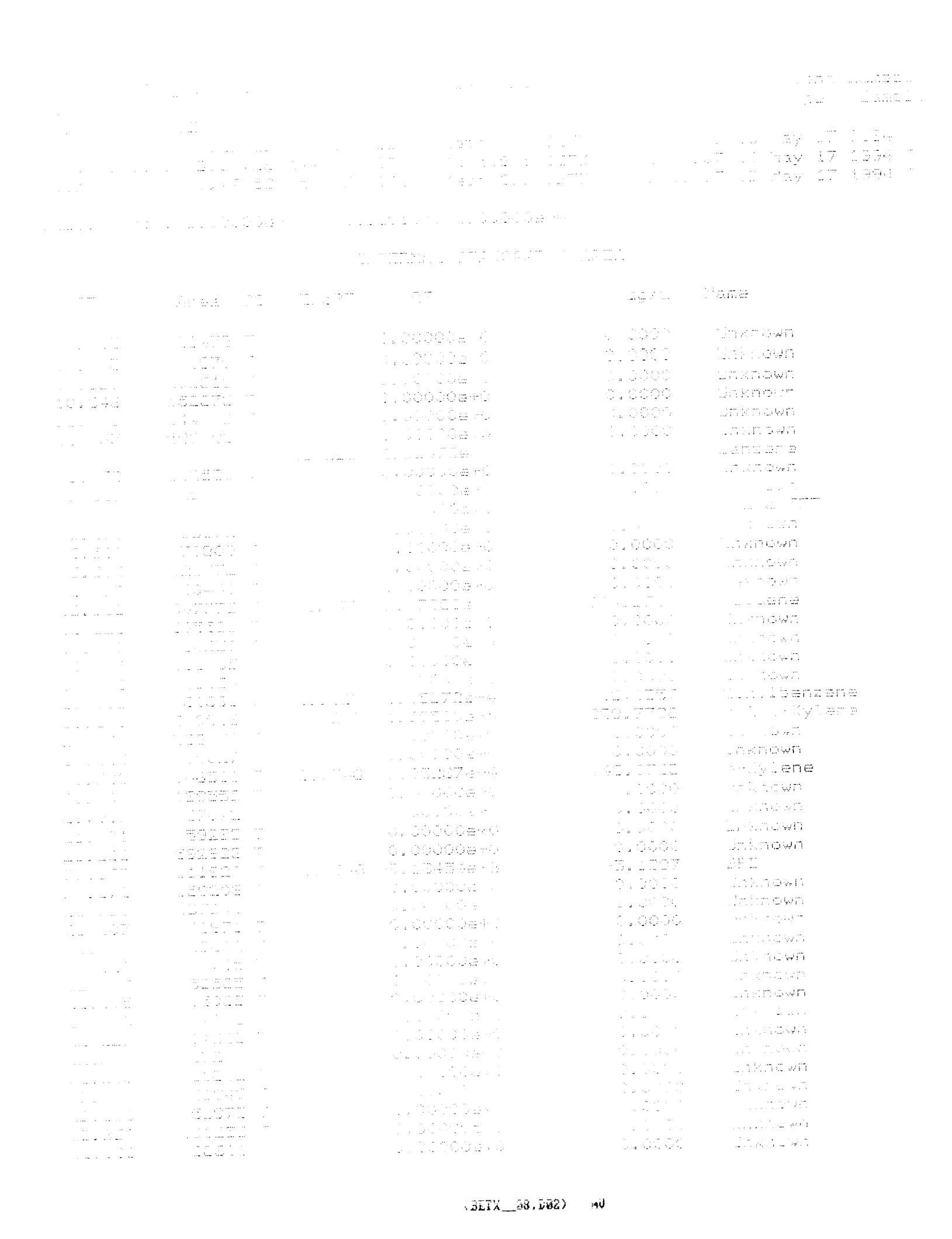




JW Handler 5/17/94

Corrected benzene 5/18/94 JW Handler


12.999
13.112
14.193
15.202
15.130
16.087 Toluene
19.322 Ethylbenzene
20.183 m,p-xylene
20.487 p-xylene



13,383

46,828 toluene

46,828

24,143 Ethylbenzene

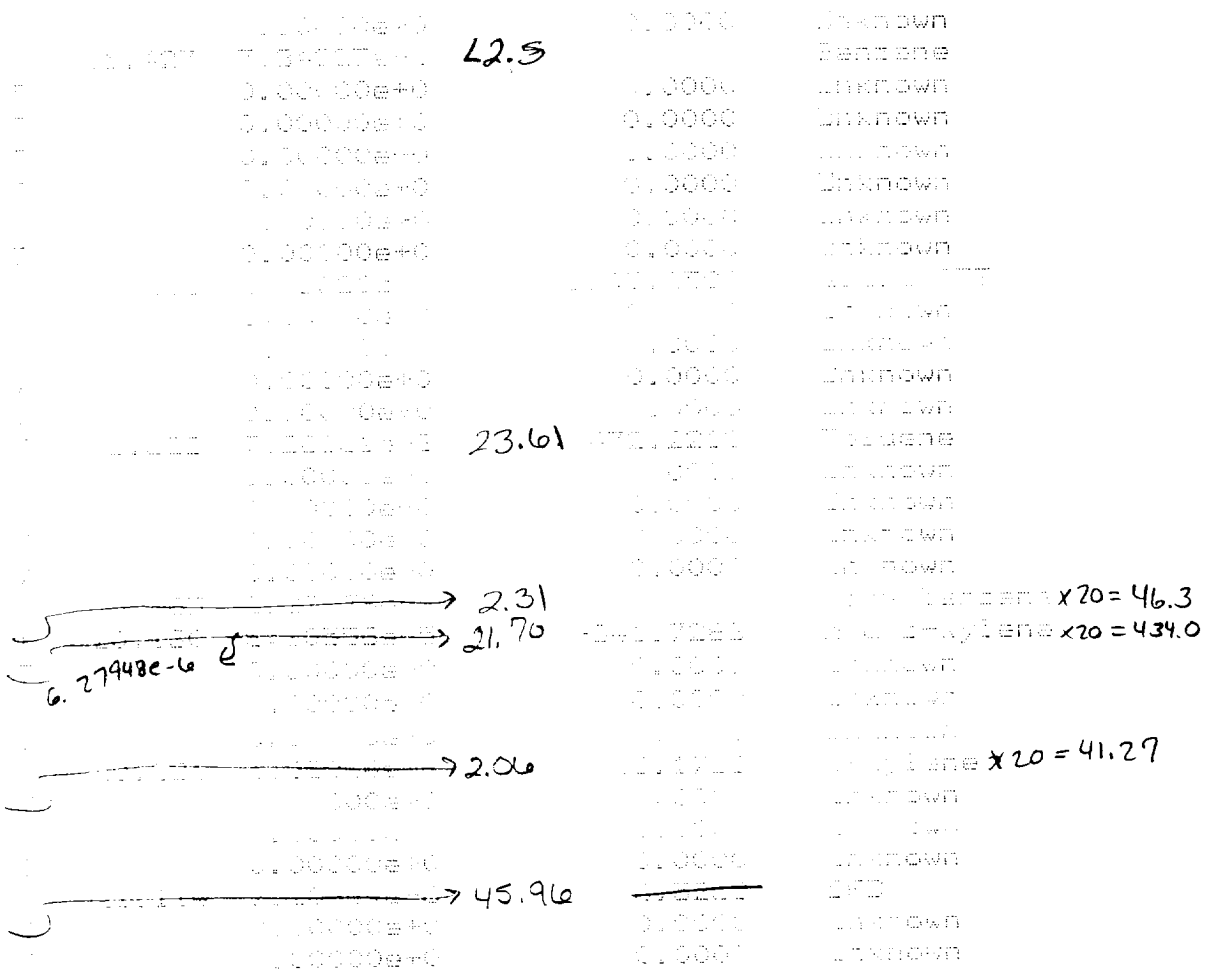
p-Xylene

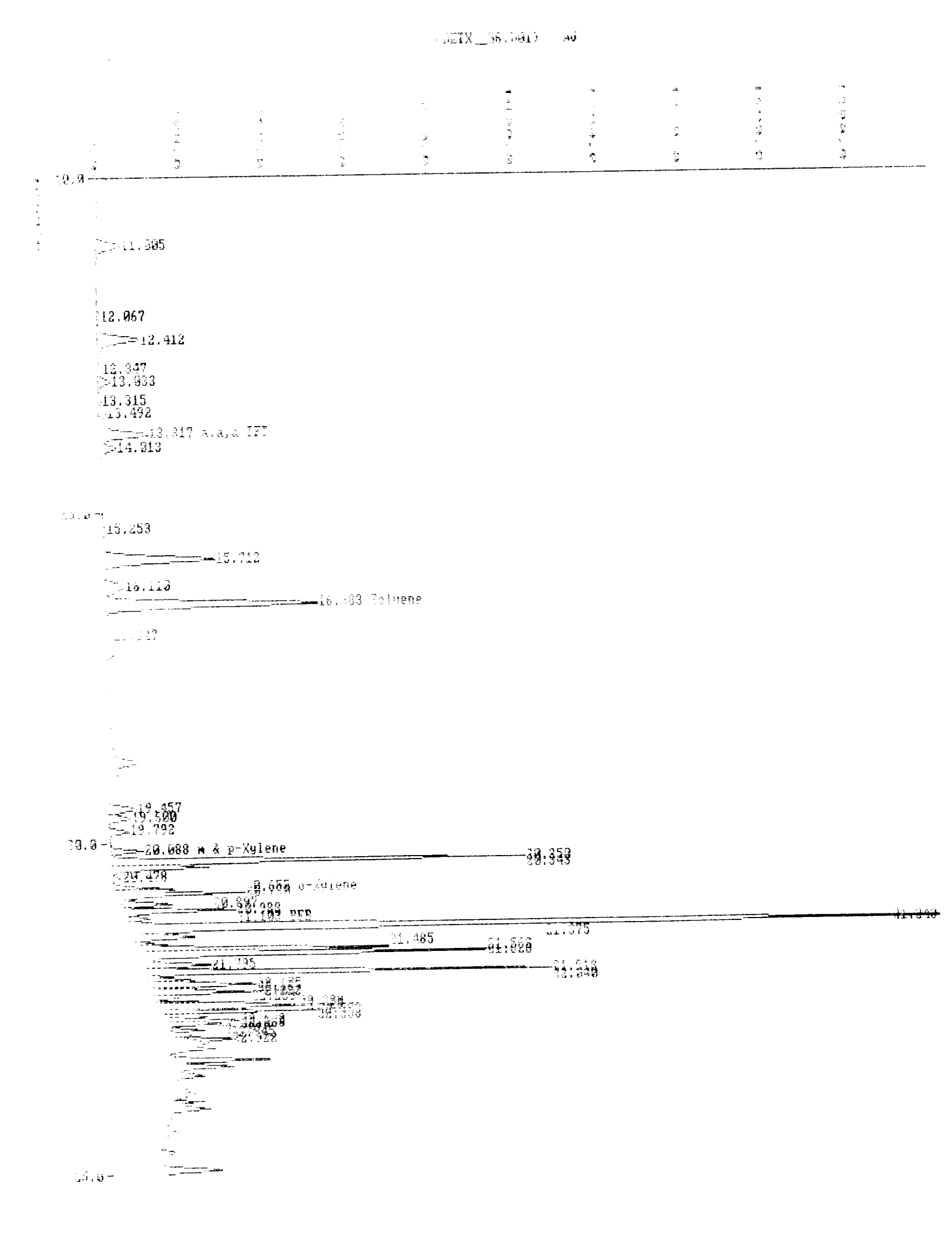
p-Xylene

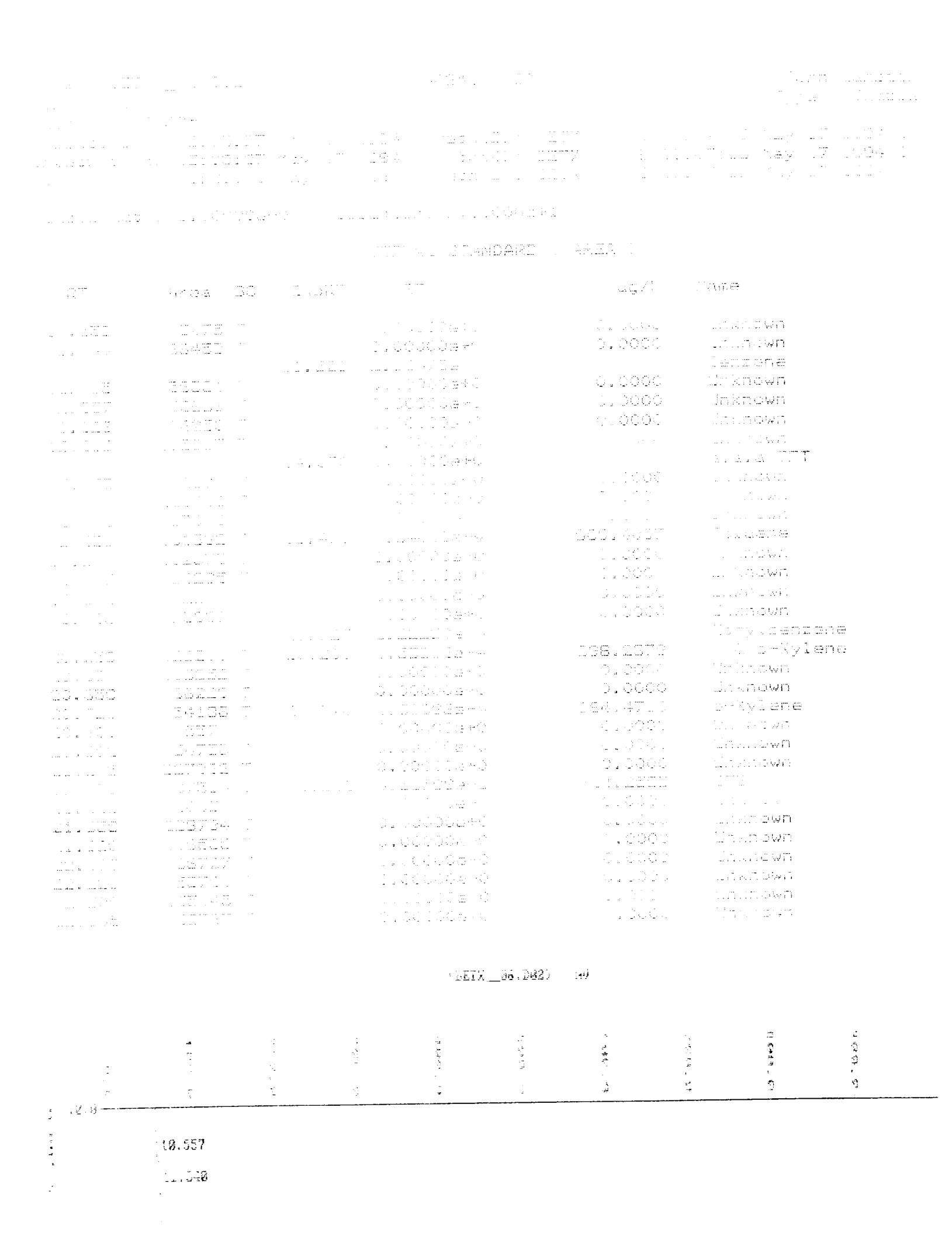
11,515 BFB

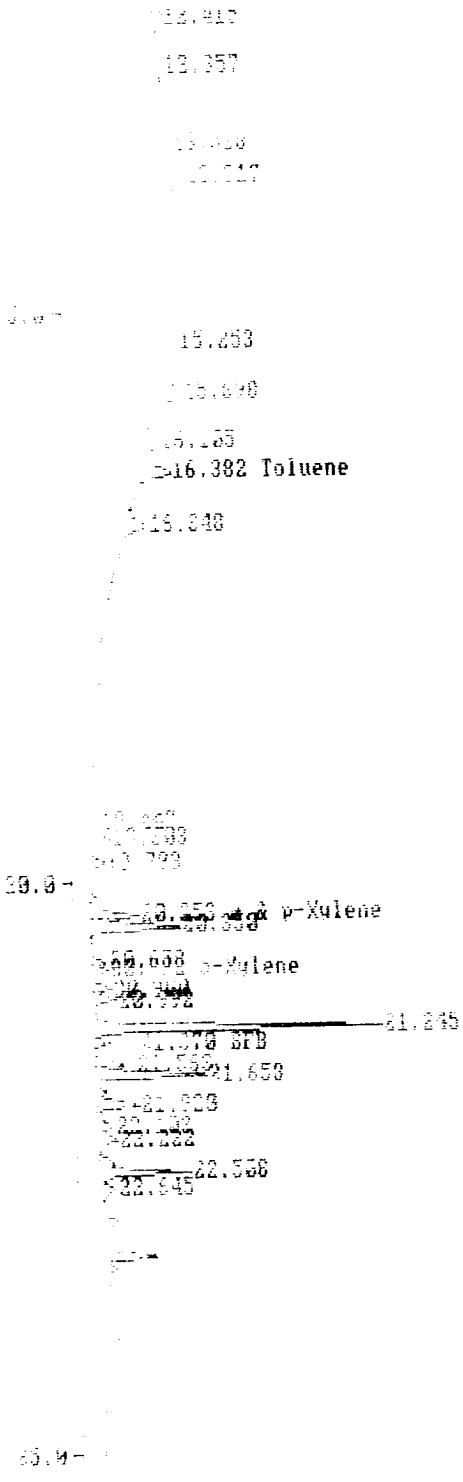
91,465

33,429


42.5
23.61
2.31
21.70
6.27948e-6
x20 = 46.3
x20 = 434.0
2.06
x20 = 41.27
45.96


11.385
12.067
12.412
12.847
13.033
13.315
13.492
13.817 A,a,a IPT
14.013
15.253
15.718
16.113
16.483 Toluene
19.457
19.792
20.088 m & p-Xylene
20.478
o-Xylene
21.485
21.739




16.382 Toluene
p-Xylene
o-Xylene

PHASE II

RECORD OF SUBSURFACE EXPLORATION

Borehole # BH-1
Well #
Page 1 of 1

PHILIP ENVIRONMENTAL
4000 Monroe Road
Farmington, New Mexico 87401
(505) 326-2262 FAX (505) 326-2388

Project Name EPNG PITS
Project Number 14509 Phase 6000 77
Project Location J.F. Bell # 2E 94310

Elevation
Borehole Location QP - S3 - T30 - R13
GWL Depth
Logged By CM CHANCE
Drilled By K Padilla
Date/Time Started 10/5/95 - 1545
Date/Time Completed 10/5/95 -

Well Logged By CM Chance
Personnel On-Site K Padilla, F. Rivera, D. Charlie
Contractors On-Site
Client Personnel On-Site

Drilling Method 4 1/4" ID HSA
Air Monitoring Method PID, CGI

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 BZ	BH	S HS	Drilling Conditions & Blow Counts
0				Backfill to 12'						
15	1	15-15.5	10"	DK gry clayey SAND, vF-F sand, dense, dry			0	12	378/2150	-1547
20	2	20-20.5	5"	Br SAND, vF-F sand, v. dense, dry			2	68	7/2	hard drlg -1558
				TDB 20.5'						

Comments: CMC 132 (20-20.5') sent to lab (BTEX, TPH). BH grouted to surface. Sampled bagged iced prior to containerizing

Geologist Signature Cory CChance

El Paso Natural Gas Company

FIELD SERVICES LABORATORY
ANALYTICAL REPORT
PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID (Rev 10/6/95)	Lab ID
SAMPLE NUMBER:	CMC 130 Rev 132	947598
MTR CODE | SITE NAME:	94310	J.F. Bell #2E
SAMPLE DATE | TIME (Hrs):	10-05-95	1558
PROJECT:	Phase II Drilling	
DATE OF TPH EXT. | ANAL.:	10/6/95	
DATE OF BTEX EXT. | ANAL.:	10/6/95	10/9/95
TYPE | DESCRIPTION:	VG	LIGHT BROWN COARSE SAND

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	< 1.5	MG/KG				
TOTAL BTEX	< 3	MG/KG				
TPH (418.1)	< 10	MG/KG			1.08	28
HEADSPACE PID	2	PPM				
PERCENT SOLIDS	81.6	%				

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

The Surrogate Recovery was at 96% for this sample All QA/QC was acceptable.

Narrative:

DF = Dilution Factor Used

Approved By: _____ Date: 10-11-95

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**********************************************************
*                    Test Method for                     *
*      Oil and Grease and Petroleum Hydrocarbons         *
*                   in Water and Soil                    *
*                                                        *
*             Perkin-Elmer Model 1600 FT-IR              *
*                    Analysis Report                     *
**********************************************************
*
 95/10/06  18:17
*
*  Sample identification
 947598
*
*  Initial mass of sample, g
 2.080
*
*  Volume of sample after extraction, ml
 28.000
*
*  Petroleum hydrocarbons, ppm
 -254.817
*  Net absorbance of hydrocarbons (2930 cm-1)
 -0.022
*
*
*
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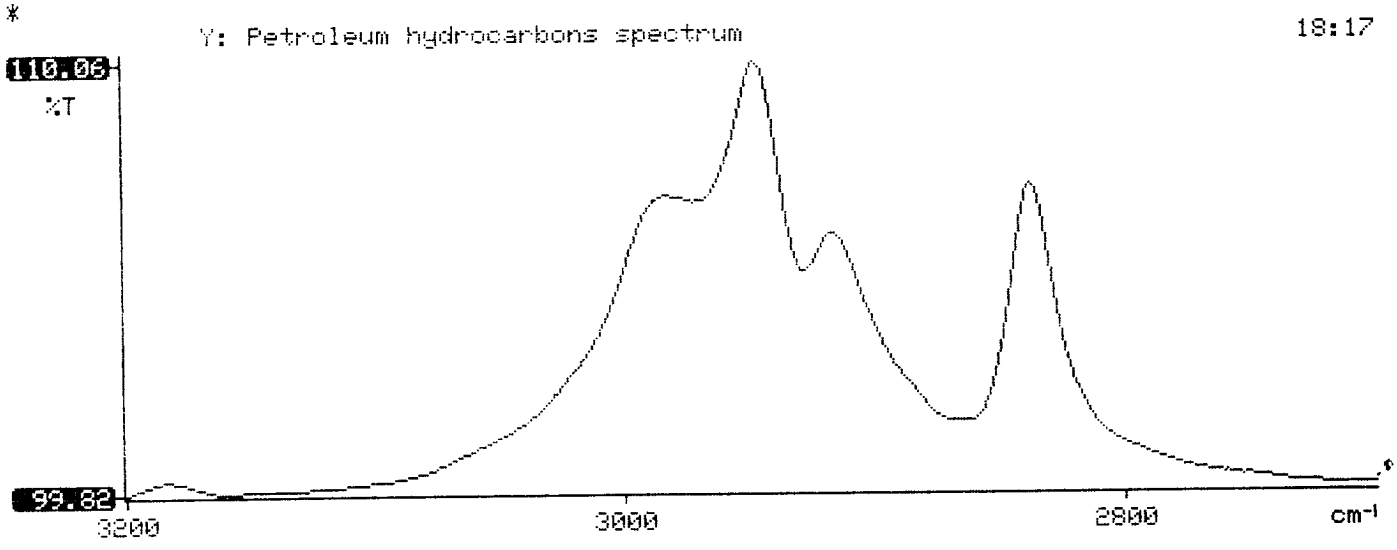

BTEX SOIL SAMPLE WORKSHEET

File	947598	**Date Printed**	10/10/95		
Soil Mass (g)	5.04	**Multiplier (L/g)**	0.00099		
Extraction vol. (mL)	10	**DF (Analytical)**	200		
Shot Volume (uL)	50	**DF (Report)**	0.19841		

				Det. Limit
Benzene (ug/L)	0.35	**Benzene (mg/Kg):**	**0.069**	**0.496**
Toluene (ug/L)	0.84	**Toluene (mg/Kg):**	**0.167**	**0.496**
Ethylbenzene (ug/L)	0.00	**Ethylbenzene (mg/Kg):**	**0.000**	**0.496**
p & m-xylene (ug/L)	0.49	p & m-xylene (mg/Kg):	0.097	**0.992**
o-xylene (ug/L)	0.13	o-xylene (mg/Kg):	0.026	**0.496**
		Total xylenes (mg/Kg):	**0.123**	1.488
		Total BTEX (mg/Kg):	**0.359**	

EL PASO NATURAL GAS
EPA METHOD 8020 - BTEX SOILS

File : C:\LABQUEST\CHROM000\100995-0.002
Method : C:\LABQUEST\METHODS\0-092095.MET
Sample ID : 947598,5.04G,50U
Acquired : Oct 09, 1995 13:41:27
Printed : Oct 09, 1995 14:11:53
User : MARLON

Channel A Results

COMPONENT	RET TIME	AREA	CONC (ug/L)
BENZENE	8.163	129482	0.3460
a,a,a-TFT	10.503	8969011	102.5196
TOLUENE	12.923	305328	0.8389
ETHYLBENZENE	17.170	0	0.0000
M,P-XYLENES	17.647	195050	0.4862
O-XYLENE	18.827	43387	0.1325
BFB	19.887	52524632	96.3612