

EL PASO FIELD SERVICES
PRODUCTION PIT CLOSURE
DEPUTY OIL & GAS INSPECTOR

DEC 21 1998

RINCON UNIT #162
Meter/Line ID - 73108

RECEIVED
JUL 2 1998

SITE DETAILS

Legals - Twn: 27 Rng: 06
NMOCD Hazard Ranking: 10
Operator: UNOCAL CORPORATION

Sec: 27 Unit: K
Land Type: 2 - Federal
Pit Closure Date: 12/13/94

OIL CON DIV
DATE: 12/13/94

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

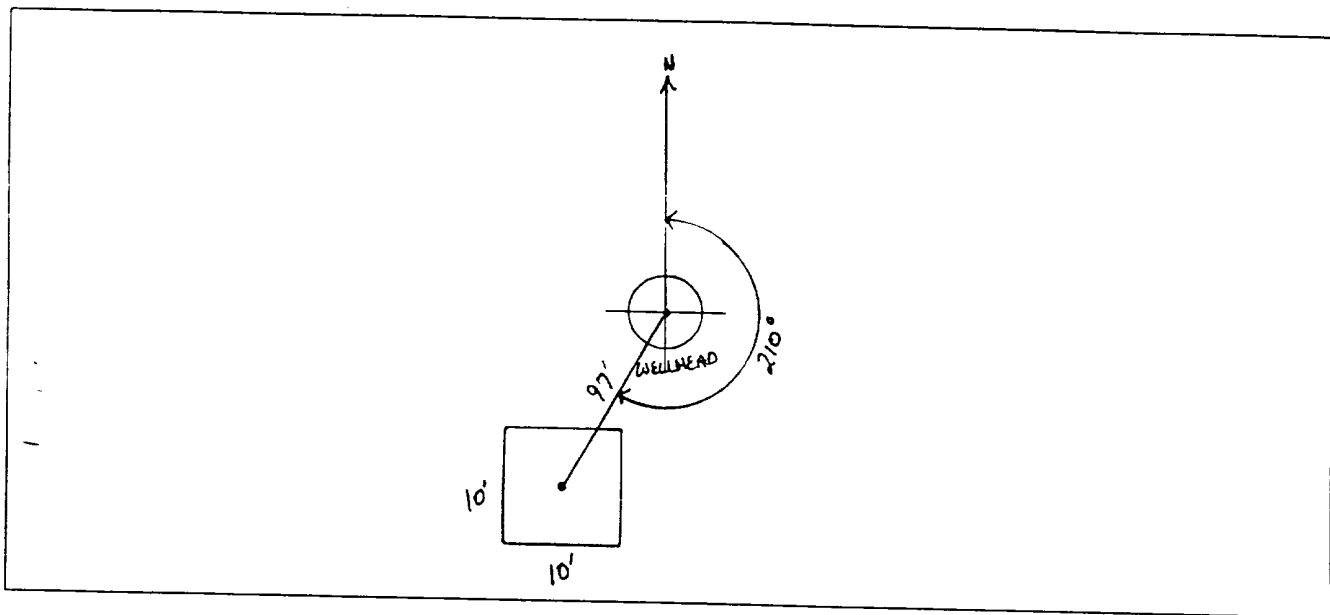
GENERAL	<p>Meter: <u>73108</u> Location: <u>RINCON UNIT #162</u></p> <p>Operator #: _____ Operator Name: <u>UNOCAL</u> P/L District: <u>BLANCO</u></p> <p>Coordinates: Letter: <u>K</u> Section <u>27</u> Township: <u>20</u> Range: <u>6</u></p> <p>Or Latitude _____ Longitude _____</p> <p>Pit Type: Dehydrator _____ Location Drip: <u>X</u> Line Drip: _____ Other: _____</p> <p>Site Assessment Date: <u>11-29-94</u> Area: <u>03</u> Run: <u>51</u></p>
SITE ASSESSMENT	<p>NMOCD Zone: (From NMOCD Maps) Inside <input checked="" type="checkbox"/> (1) Outside <input type="checkbox"/> (2)</p> <p>Land Type: BLM <input checked="" type="checkbox"/> (1) State <input type="checkbox"/> (2) Fee <input type="checkbox"/> (3) Indian _____</p> <p>Depth to Groundwater</p> <p>Less Than 50 Feet (20 points) <input type="checkbox"/> (1)</p> <p>50 Ft to 99 Ft (10 points) <input type="checkbox"/> (2)</p> <p>Greater Than 100 Ft (0 points) <input checked="" type="checkbox"/> (3)</p> <p>Wellhead Protection Area :</p> <p>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? <input type="checkbox"/> (1) YES (20 points) <input checked="" type="checkbox"/> (2) NO (0 points)</p> <p>Horizontal Distance to Surface Water Body</p> <p>Less Than 200 Ft (20 points) <input type="checkbox"/> (1)</p> <p>200 Ft to 1000 Ft (10 points) <input checked="" type="checkbox"/> (2)</p> <p>Greater Than 1000 Ft (0 points) <input type="checkbox"/> (3)</p> <p>Name of Surface Water Body <u>PERMANENT DRAINAGE TO MARTINEZ CANYON</u></p> <p>(Surface Water Body : Perennial Rivers, Major Wash, Streams, Creeks, Irrigation Canals, Ditches, Lakes, Ponds)</p> <p>Distance to Nearest Ephemeral Stream <input type="checkbox"/> (1) < 100' (Navajo Pits Only)</p> <p><input type="checkbox"/> (2) > 100'</p> <p>TOTAL HAZARD RANKING SCORE: <u>10</u> POINTS</p>
REMARKS	<p>Remarks : <u>REDLINE & TOPO SHOW LOCATION INSIDE V.Z. NO PITS ON THIS LOCATION</u></p> <p><u>EPING LOCATION DRIP HAS BEEN CLOSED. WILL RE-DIG CLOSED PIT. NOTE ORANGE STAKE.</u></p>

DR. J. MAUL

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 210° Footage from Wellhead 97'
 b) Length : 10' Width : 10' Depth : 0

ORIGINAL PIT LOCATION



Remarks :

PHOTOS - 1259

REMARKS

Completed By:

Paul Thompson

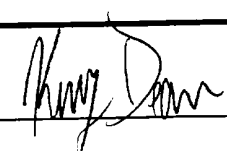
Signature

11.29.94

Date

PHASE I EXCAVATION

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: <u>73108</u> Location: <u>Rincon unit #162</u> Coordinates: Letter: <u>K</u> Section <u>27</u> Township: <u>27</u> Range: <u>6</u> Or Latitude _____ Longitude _____ Date Started : <u>12/13/94</u> Run: <u>03</u> <u>51</u>
FIELD OBSERVATIONS	Sample Number(s): <u>KD 384</u> Sample Depth: <u>12'</u> Feet Final PID Reading <u>439 ppm</u> PID Reading Depth <u>12'</u> Feet <div style="text-align: center;">Yes No</div> Groundwater Encountered <input type="checkbox"/> <input checked="" type="checkbox"/> Approximate Depth _____ Feet
CLOSURE	Remediation Method : <div style="display: flex; justify-content: space-between;"> <div> Excavation Onsite Bioremediation Backfill Pit Without Excavation </div> <div style="text-align: right;"> <input checked="" type="checkbox"/> Approx. Cubic Yards <u>70</u> <input type="checkbox"/> <input type="checkbox"/> </div> </div> Soil Disposition: <div style="display: flex; justify-content: space-between;"> <div> Envirotech <input checked="" type="checkbox"/> Other Facility <input type="checkbox"/> </div> <div> <input type="checkbox"/> Tierra Name: _____ </div> </div> Pit Closure Date: <u>12/13/94</u> Pit Closed By: <u>BEI</u>
REMARKS	Remarks : <u>Unsat had previously Covered pit. Removed 10 yds of Clean Overburden, EXCAVATED pit to 12', took PID Sample then Closed pit.</u>
	Signature of Specialist: <u></u>



SPLIT

FIELD SERVICES LABORATORY

ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	KD 384	946529
MTR CODE SITE NAME:	73108	N/A
SAMPLE DATE TIME (Hrs):	12-13-94	1130
SAMPLED BY:	N/A	
DATE OF TPH EXT. ANAL.:	12-15-94	12-15-94
DATE OF BTEX EXT. ANAL.:	12/14/94	12/16/94
TYPE DESCRIPTION:	VC	light Brown fine sand

REMARKS: BTEX results from ATI and E.P.N.G.

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS				ATI Results
			DF	Q	M(g)	V(ml)	
BENZENE	21.01	MG/KG	0.2024		4.94	20	<0.50
TOLUENE	4.96	MG/KG	1		1	1	1.6
ETHYL BENZENE	2.34	MG/KG	1		1	1	0.53
TOTAL XYLENES	15.7	MG/KG	1		1	1	4.7
TOTAL BTEX	23.3	MG/KG	1		1	1	7.33
TPH (418.1)	1040	MG/KG			1.99	28	—
HEADSPACE PID	439	PPM					Surrogate % 90
PERCENT SOLIDS	91.7	%					Dilution Factor 20

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

The Surrogate Recovery was at 99.2% for this samp All QA/QC was acceptable.

Narrative:

o-xylene estimated ATI results attached

DF = Dilution Factor Used

Approved By:

Date: 1-6-95

Not
used

 * Test Method for *
 * Oil and Grease and Petroleum Hydrocarbons *
 * in Water and Soil *

Perkin-Elmer Model 1600 FT-IR
 Analysis Report

74/12/15 12:04

* Sample identification
 946529

* Initial mass of sample, g
 1.990

* Volume of sample after extraction, ml
 28.000

* Petroleum hydrocarbons, ppm
 1039.236

* Net absorbance of hydrocarbons (2930 cm⁻¹)
 0.136

*
 *
 *



BTEX SOIL SAMPLE WORKSHEET

File	:	946529A	Date Printed	:	12/19/94
Soil Mass (g)	:	4.94	Multiplier (L/g)	:	0.00101
Extraction vol. (mL)	:	20	DF (Analytical)	:	200
Shot Volume (uL)	:	100	DF (Report)	:	0.20243

				Det. Limit
Benzene (ug/L)	:	1.45	Benzene (mg/Kg):	0.294 1.012
Toluene (ug/L)	:	24.50	Toluene (mg/Kg):	4.960 1.012
Ethylbenzene (ug/L)	:	11.55	Ethylbenzene (mg/Kg):	2.338 1.012
p & m-xylene (ug/L)	:	63.27	p & m-xylene (mg/Kg):	12.808 4.049
o-xylene (ug/L)	:	14.29	o-xylene (mg/Kg):	2.893 2.024
			Total xylenes (mg/Kg):	15.700 6.073
			Total BTEX (mg/Kg):	23.291

EL PASO NATURAL GAS

EPA METHOD 8020 - BTEX SOILS

File : C:\LABQUEST\CHROM\946529A
 Method : C:\LABQUEST\METHODS\SOILS.MET
 Sample ID : 946529, 4.94G/100uL
 Acquired : Dec 16, 1994 14:17:46
 Printed : Dec 16, 1994 14:44:02
 User : Tony

Channel A Results

COMPONENT	RET TIME	AREA	AVG RF	CONC (ug/L)
BENZENE	10.270	195418	131872.92188	1.4514
a,a,a TFT	12.627	2588562	8403.01855	288.6933
TOLUENE	15.183	3283607	148815.51563	24.4993
ETHYLBENZENE	19.447	1386951	132895.85938	11.5516
M & P XYLENE	19.673	8211750	193528.29688	63.2656
O XYLENE	20.233	0	0.00000	0.0000 14.29
BFB	20.830	20231010	199747.54688	99.2091

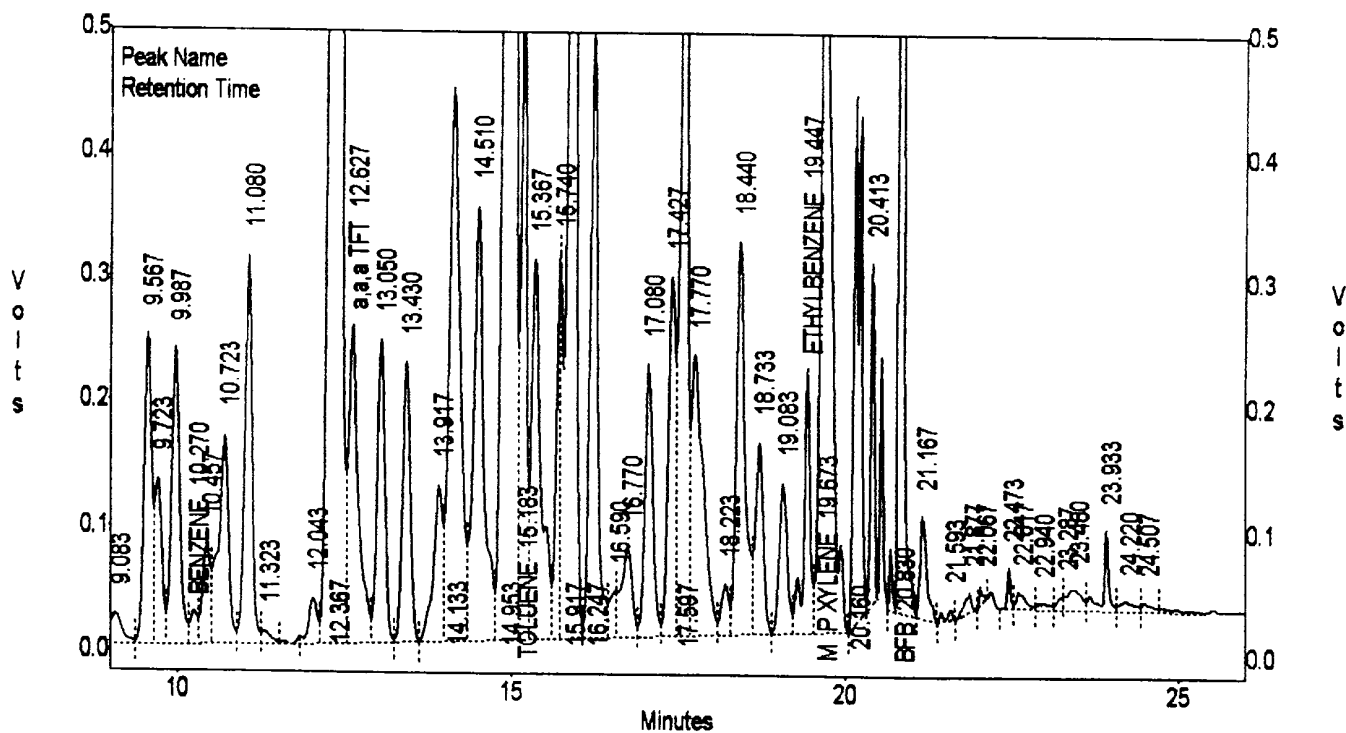
Totals :

35897300

488.6703

*overlay w 1215ccv
for o-xylene*

C:\LABQUEST\CHROM\946529A - Channel A



EL PASO NATURAL GAS

EPA METHOD 8020 - BTEX SOILS

File : C:\LABQUEST\CHROM\946529A
 Method : C:\LABQUEST\METHODS\SOILS.MET
 Sample ID : 946529, 4.94G/100uL
 Acquired : Dec 16, 1994 14:17:46
 Printed : Dec 16, 1994 14:44:08
 User : Tony

Channel B Results

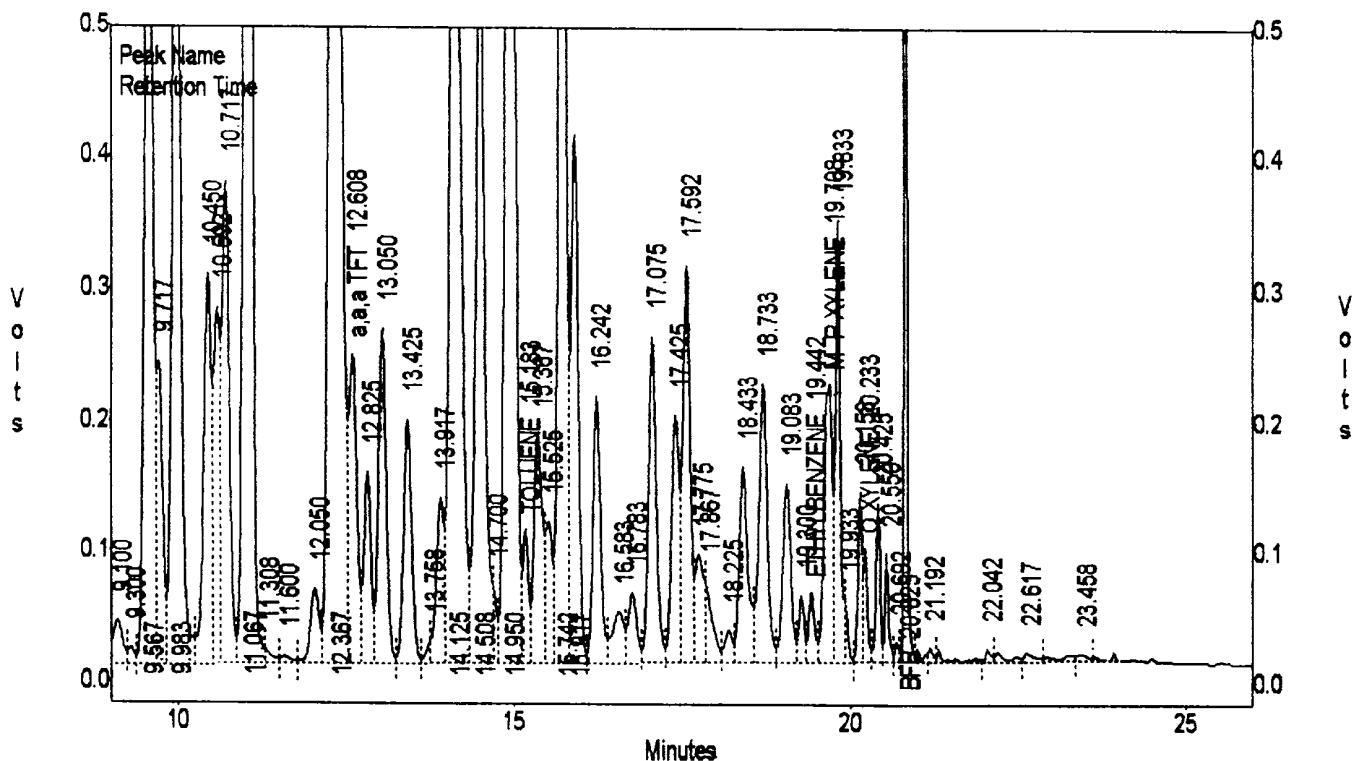
COMPONENT	RET TIME	AREA	AVG RF	CONC (ug/L)
BENZENE	10.283	0	0.00000	0.0000
a,a,a TFT	12.608	1904756	2414.15015	746.3724
TOLUENE	15.183	617939	24426.96680	27.3821
ETHYLBENZENE	19.442	329970	22761.56836	15.3661
M & P XYLENE	19.708	1742952	24867.57227	82.8742
O XYLENE	20.233	339509	23922.60938	15.9692
BFB	20.825	3141503	23067.31836	129.8179

Totals :

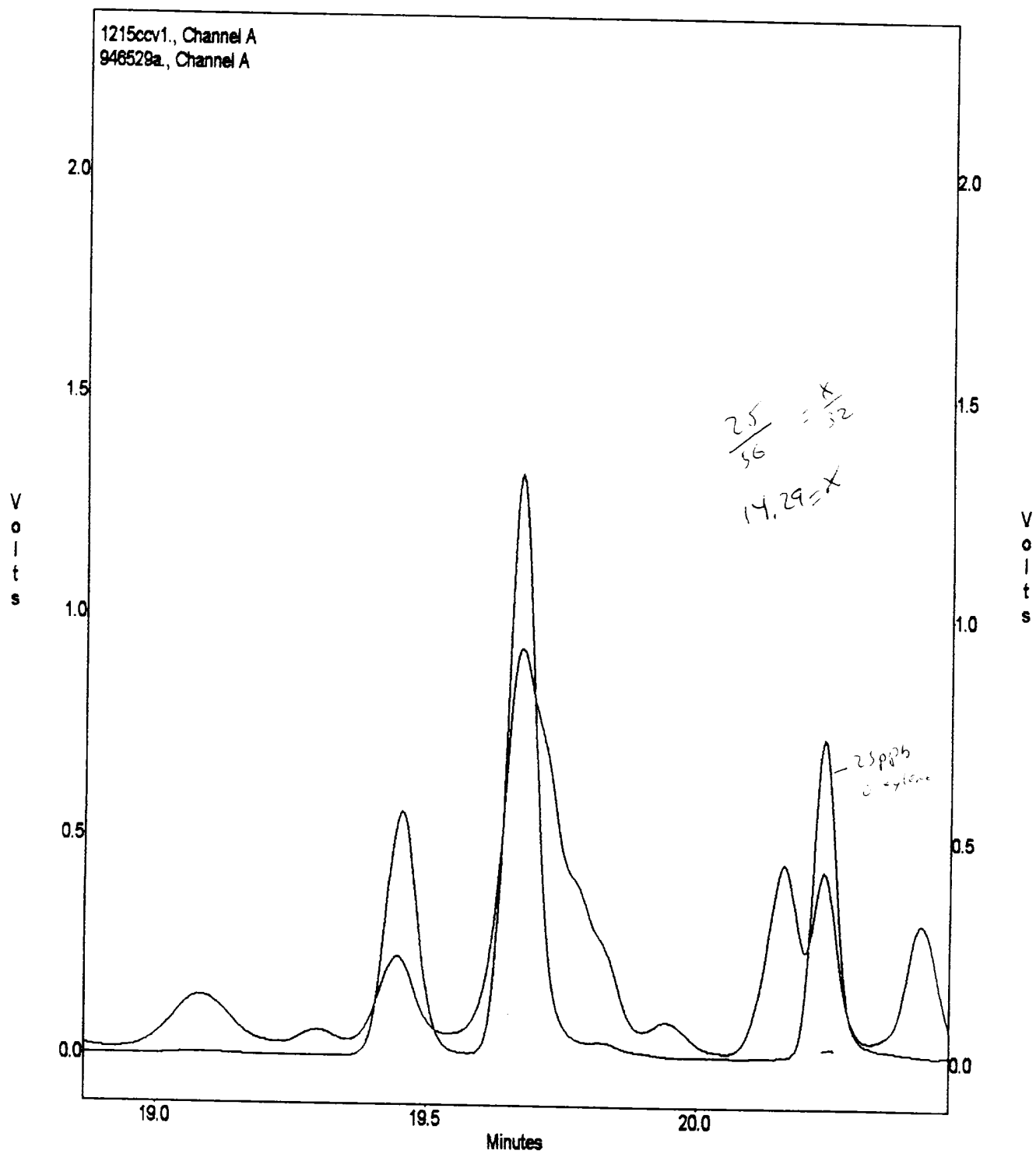
8076631

1017.7818

C:\LABQUEST\CHROM\946529A - Channel B



Overlaid Traces





Analytical**Technologies**, Inc.

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

ATI I.D. 412379

December 29, 1994

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



Project Name/Number: PIT CLOSURE 24324

Attention: John Lambdin

On 12/16/94, 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.

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

Letitia Krakowski, Ph.D.
Project Manager

MR:jt

Enclosure

GAS CHROMATOGRAPHY RESULTS

TEST : BTEX (EPA 8020)
CLIENT : EL PASO NATURAL GAS ATI I.D.: 412379
PROJECT # : 24324
PROJECT NAME : PIT CLOSURE

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
01	946526	NON-AQ	12/13/94	12/19/94	12/28/94	1
02	946528	NON-AQ	12/13/94	12/19/94	12/28/94	20
03	946529	NON-AQ	12/13/94	12/19/94	12/28/94	20
PARAMETER			UNITS	01	02	03
BENZENE			MG/KG	0.10	<0.50	<0.50
TOLUENE			MG/KG	1.5	18	1.6
ETHYLBENZENE			MG/KG	0.18	2.8	0.53
TOTAL XYLENES			MG/KG	1.8	27	4.7

SURROGATE:

BROMOFLUOROBENZENE (%) 89 109 90

PHASE II

RECORD OF SUBSURFACE EXPLORATION

Philip Environmental Services Corp.

4000 Monroe Road

Farmington, New Mexico 87401

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

Borehole #

Well #

Page

of

Project Name

EPNG Pits

Project Number

14509

Phase

601

Project Location

Rincon Unit #162, 73108

Well Logged By

S.Kelly

Personnel On-Site

K. Padilla, F. Rivera

Contractors On-Site

Client Personnel On-Site

Drilling Method

1 1/4" ID HSK

Air Monitoring Method

CGI, PID

Elevation

Borehole Location

T27, R6, S.27, R

GWL Depth

Logged By

S.Kelly

Drilled By

K. Padilla

Date/Time Started

9/15/95, 1300

Date/Time Completed

9/15/95, 1430

Depth (Feet)	Sample Number	Sample Interval	Sample Type & Recovery (inches)	Sample Description Classification System: USCS	USCS Symbol	Depth Lithology Change (feet)	Air Monitoring Units: NDU BZ BH		Drilling Conditions & Blow Counts
0				Backfill to 12'					
15	1 16	15- 17 16.5	9' 1.5'	SILT, reddish brown, med. dense, dry		17			78 1325 drilling got 1589 hard at 14.2'
20	2	20- 21.5 1.5	9' 1.5'	SILT, grey, dense, dry		24			476 1337 1073
25	3	25- 26.5 1.5	9' 1.5'	SILT, light brown, v. dense, dry, trace clay (5-15%)					8 1349 3
30				TCB-26.5'					
35									
40									

Comments:

25'-26.5' sample (SEK 92) sent to lab (BTEX & TPH). Sample was bagged and iced prior to being put in jar. BHT attached to surface

Geologist Signature

Andrew McClellan



FIELD SERVICES LABORATORY
ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	SEK82	947481
MTR CODE SITE NAME:	73108	Rincon Unit #162
SAMPLE DATE TIME (Hrs):	09-15-95	1349
PROJECT:	Phase II Drilling	
DATE OF TPH EXT. ANAL.:	9-16-95	
DATE OF BTEX EXT. ANAL.:	9/18/95	9/21/95
TYPE DESCRIPTION:	VG	light grey sand & sandstone

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)	^{R-89/1445} 1413.9	MG/KG			2.0	28
HEADSPACE PID	3	PPM				
PERCENT SOLIDS	94.3	%				

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

The Surrogate Recovery was at 100% for this sample All QA/QC was acceptable.
Narrative:

DF = Dilution Factor Used

Approved By: J. J.

Date: 9-22-95


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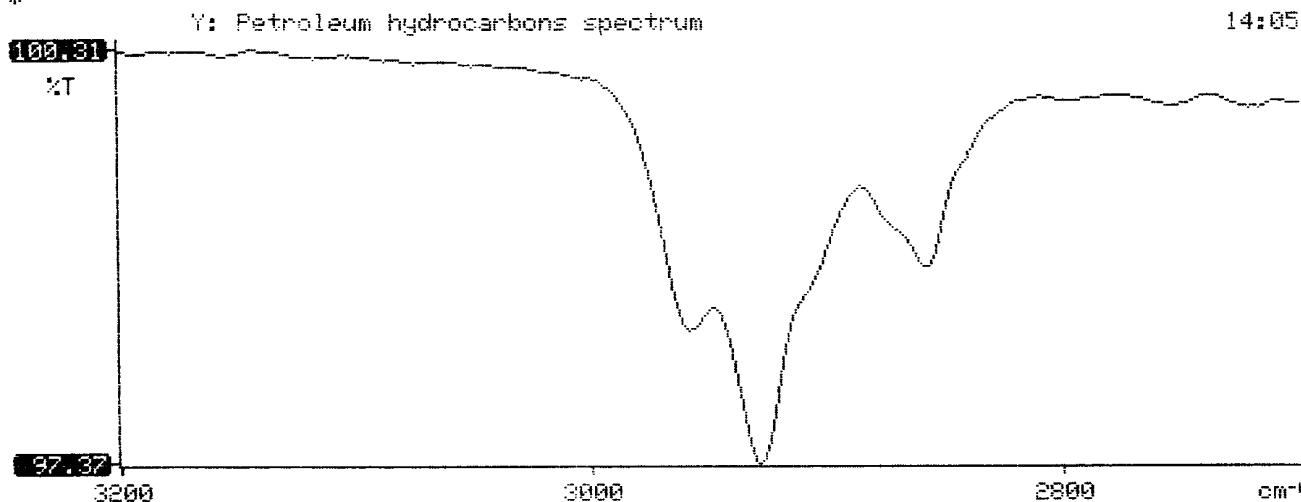
*****
*                               *
*       Test Method for        *
*   Oil and Grease and Petroleum Hydrocarbons   *
*       in Water and Soil      *
*                               *
*       Perkin-Elmer Model 1600 FT-IR           *
*       Analysis Report          *
*****

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* 95/09/18 14:05
*
* Sample identification
* 947481
*
* Initial mass of sample, g
* 2.000
*
* Volume of sample after extraction, ml
* 28.000
*
* Petroleum hydrocarbons, ppm
* 13.926
* Net absorbance of hydrocarbons (2930 cm-1)
* 0.012
*
*
*

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BTEX SOIL SAMPLE WORKSHEET

File	:	947481	Date Printed	:	9/22/95
Soil Mass (g)	:	5.02	Multiplier (L/g)	:	0.00100
Extraction vol. (mL)	:	20	DF (Analytical)	:	200
Shot Volume (uL)	:	100	DF (Report)	:	0.19920

			Det. Limit
Benzene (ug/L)	:	0.11	Benzene (mg/Kg): 0.022 0.498
Toluene (ug/L)	:	0.35	Toluene (mg/Kg): 0.070 0.498
Ethylbenzene (ug/L)	:	0.24	Ethylbenzene (mg/Kg): 0.048 0.498
p & m-xylene (ug/L)	:	0.78	p & m-xylene (mg/Kg): 0.155 0.996
o-xylene (ug/L)	:	0.23	o-xylene (mg/Kg): 0.046 0.498
			Total xylenes (mg/Kg): 0.201 1.494
			Total BTEX (mg/Kg): 0.341

EL PASO NATURAL GAS

EPA METHOD 8020 - BTEX SOILS

File : C:\LABQUEST\CHROM000\092195-0.011
 Method : C:\LABQUEST\METHODS\9000.MET
 Sample ID : 947481,5.02G,100U
 Acquired : Sep 21, 1995 16:41:00
 Printed : Sep 21, 1995 17:11:23
 User : MARLON

Channel A Results

COMPONENT	RET TIME	AREA	CONC (ug/L)
BENZENE	8.100	42336	0.1131
a,a,a-TFT	10.450	8423720	96.2867
TOLUENE	12.870	126005	0.3462
ETHYLBENZENE	17.210	79429	0.2359
M,P-XYLENES	17.587	314282	0.7834
O-XYLENE	18.760	75802	0.2315
BFB	19.857	54541956	100.0621

