DEPUTY OIL & GAS

EL PASO FIELD SERVICES
PRODUCTION PIT CLOSURE

MOLLY PITCHER #1
Meter/Line ID - 90018

SITE DETAILS

Legals - Twn: 30 **Rng:** 14 **Sec:** 14 **Unit:** H
NMOCD Hazard Ranking: 10 **Land Type:** 2 - Federal
Operator: DUGAN PRODUCTION CORP **Pit Closure Date: 01/25/95**

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: 90018 Location: MOLLY PITCHER #1

Operator #: _____ Operator Name: DUGAN PROD. P/L District: KUTZ

Coordinates: Letter: H Section 14 Township: 30 Range: 14

Or Latitude _____ Longitude _____

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

Site Assessment Date: 1.11.95 Area: 02 Run: 23

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 CONNOR ARROYO

(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: _____ **POINTS**

REMARKS

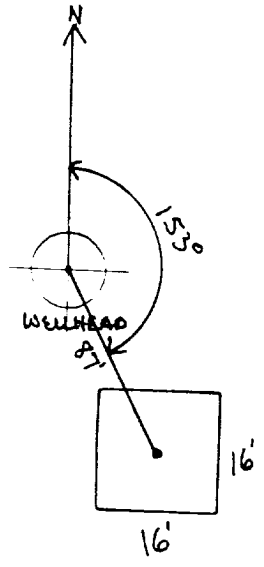
Remarks : REDLINE & TOPO SHOW LOCATION INSIDE V.Z. 3 PITS ON LOCATION. DENY PIT BELONGS TO EPNG. WILL CLOSE PIT. 1' OF LIQUID IN PIT.

DIG & HAUL

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 153° Footage from Wellhead 87'

b) Length : 16' Width : 16' Depth : 3'



REMARKS

Remarks :

Photos - 1321

Completed By:

Signature

1-11-95

Date

PHASE I
EXCAVATION

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL

Meter: 90018 Location: Molly Pitcher

Coordinates: Letter: H Section 14 Township: 30 Range: 14

Or Latitude _____ Longitude _____

Date Started : 1-24-95 Run: 02 23

FIELD OBSERVATIONS

Sample Number(s): KP 390 _____ _____ _____

Sample Depth: 10' Feet

Final PID Reading 256 PID Reading Depth 10' Feet

	Yes	No
Groundwater Encountered	☐	☒

Approximate Depth _____ Feet

CLOSURE

Remediation Method .

Excavation ☒ Approx. Cubic Yards 70

Onsite Bioremediation ☐

Backfill Pit Without Excavation ☐

Soil Disposition:

Envirotech ☐ ☒ Tierra

Other Facility ☐ Name: _____

Pit Closure Date: ~~1-24-95~~ 1-25-95 Pit Closed By: B.E.I

REMARKS

Remarks : No Line markers. started Remediating To 12' Soil Turned Dark gray with A Hydrocarbon ordor. Hit sand stone At 10'

Signature of Specialist: Kelly Padilla

(SP3181) 03/16/94

El Paso Natural Gas Company

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

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	KP 390	946594
MTR CODE | SITE NAME:	90018	N/A
SAMPLE DATE | TIME (Hrs):	1-25-95	0900
SAMPLED BY:	N/A	
DATE OF TPH EXT. | ANAL.:	1-28-95	1-28-95
DATE OF BTEX EXT. | ANAL.:	1/28/95	1/28/95
TYPE | DESCRIPTION:	VC	Brown sand and clay

REMARKS: _____

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	14.1	MG/KG	0.51480		2.59	20
TOLUENE	150	MG/KG				
ETHYL BENZENE	13.7	MG/KG				
TOTAL XYLENES	218	MG/KG				
TOTAL BTEX	395	MG/KG				
TPH (418.1)	11000	MG/KG			0.390	28
HEADSPACE PID	256	PPM				
PERCENT SOLIDS	90.7	%				

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

The Surrogate Recovery was at 86.6 % for this sample All QA/QC was acceptable.

Narrative:

DF = Dilution Factor Used

Approved By: _____ Date: 2-22-95

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

Perkin-Elmer Model 1600 FT-IR
Analysis Report

05/01/20 07:50

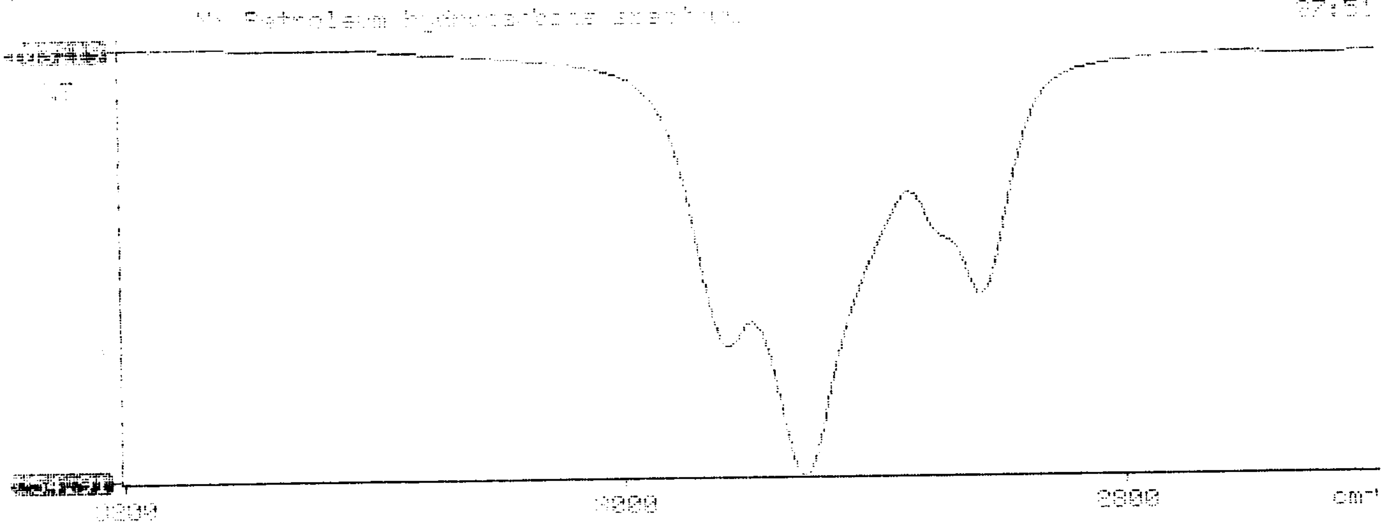
Sample identification
44594

Initial mass of sample, g
0.390

Volume of sample after extraction, ml
28.000

Petroleum hydrocarbons, ppm
10977.213

Net absorbance of hydrocarbons (2930 cm-1)
0.[illegible]



BTEX SOIL SAMPLE WORKSHEET

File	946594A	**Date Printed**	1/29/95
Soil Mass (g)	2.59	**Multiplier (L/g)**	0.00193
Extraction vol. (mL)	20	**DF (Analytical)**	266.667
Shot Volume (uL)	75	**DF (Report)**	0.51480

			Det. Limit
Benzene (ug/L)	27.46	**Benzene (mg/Kg):**	**14.136**	2.574
Toluene (ug/L)	290.76	**Toluene (mg/Kg):**	**149.683**	2.574
Ethylbenzene (ug/L)	26.66	**Ethylbenzene (mg/Kg):**	**13.725**	2.574
p & m-xylene (ug/L)	329.17	p & m-xylene (mg/Kg):	169.457	5.148
o-xylene (ug/L)	93.78	o-xylene (mg/Kg):	48.278	2.574
		Total xylenes (mg/Kg):	**217.735**	7.722
		Total BTEX (mg/Kg):	**395.279**	

EL PASO NATURAL GAS
EPA METHOD 8020 - BTEX SOILS

File : C:\LABQUEST\CHROM001\946594A
Method : C:\LABQUEST\METHODS\9001.MET
Sample ID : 946594,2.59G/75uL
Acquired : Jan 29, 1995 10:16:30
Printed : Jan 29, 1995 10:33:37
User : Tony

Channel A Results

COMPONENT	RET TIME	AREA	AVG RF	CONC (ug/L)
BENZENE	3.350	3536725	121531.74219	27.4558
a,a,a TFT	4.858	5338825	32055.68359	163.8510
TOLUENE	6.717	71854896	314479.71875	290.7620
ETHYLBENZENE	10.508	6011569	228573.29688	26.6622
M & P XYLENE	10.875	82867856	316768.40625	329.1673
O XYLENE	11.933	20666392	221087.17188	93.7797
BFB	13.433	82603816	944778.31250	86.6237

Totals : 272880064 1018.3016

EL PASO NATURAL GAS
EPA METHOD 8020 - BTEX SOILS

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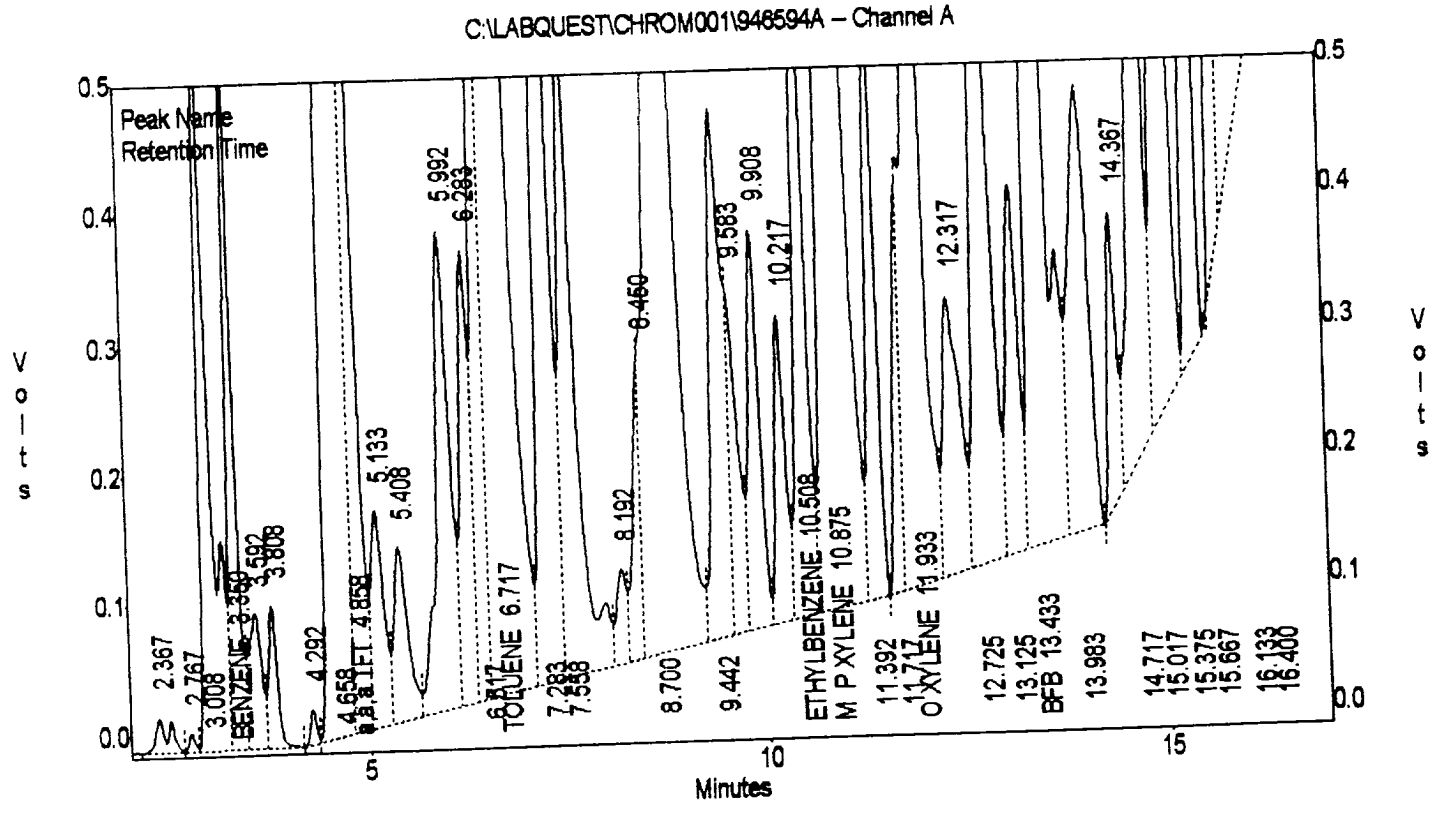
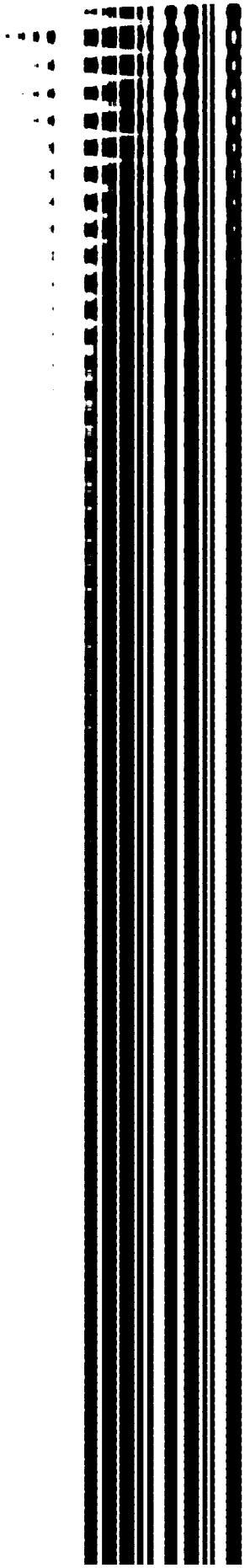
M & P XYLENE	10.875	82867856	316768.40625	329.1673
O XYLENE	11.933	20666392	221087.17188	93.7797
BFB	13.433	82603816	944778.31250	86.6237
Totals :		272880064		1018.3016



EL PASO NATURAL GAS



EL PASO NATURAL GAS
EPA METHOD 8020 - BTEX SOILS

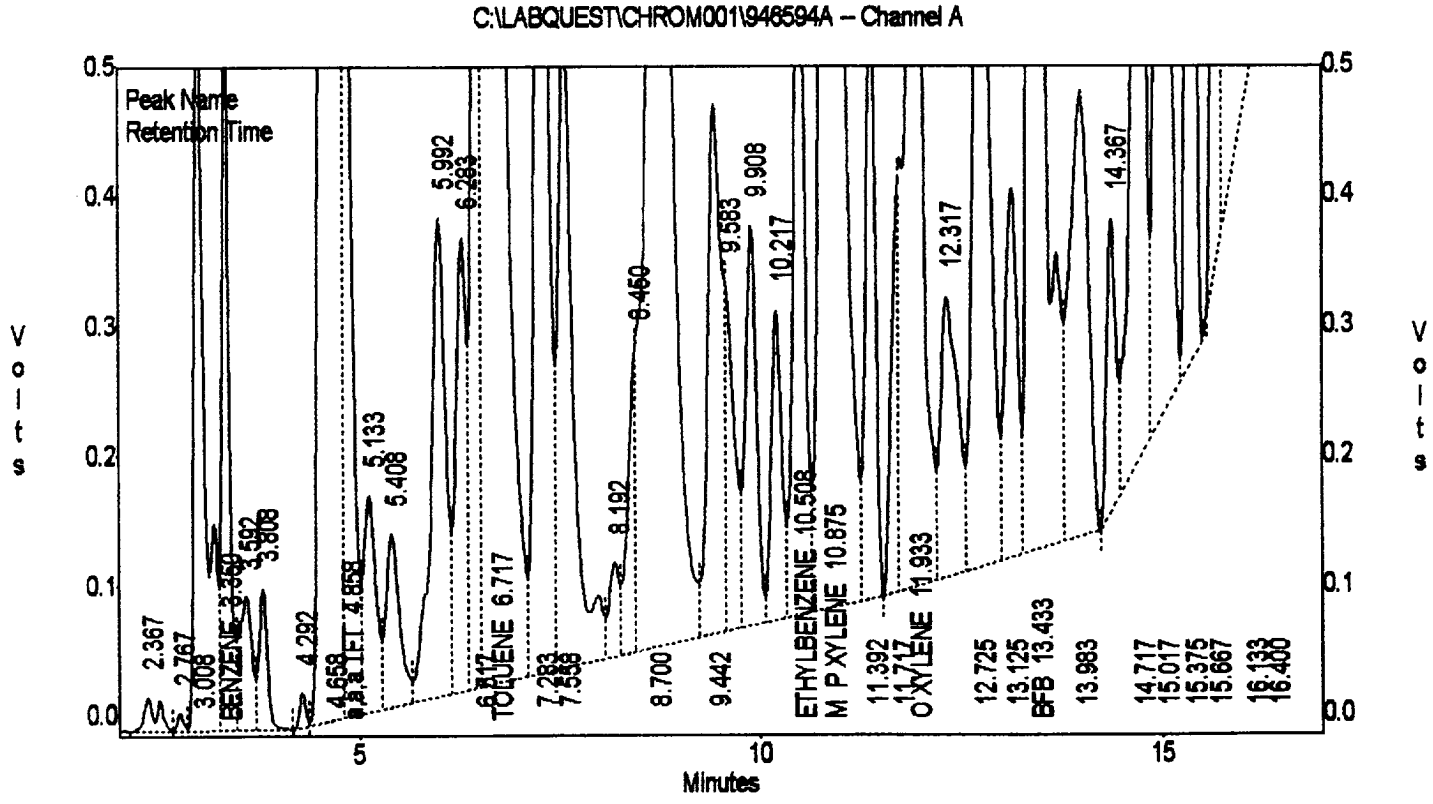
File : C:\LABQUEST\CHROM001\946594A
Method : C:\LABQUEST\METHODS\9001.MET
Sample ID : 946594,2.59G/75uL
Acquired : Jan 29, 1995 10:16:30
Printed : Jan 29, 1995 10:33:37
User : Tony

Channel A Results

COMPONENT	RET TIME	AREA	AVG RF	CONC (ug/L)
BENZENE	3.350	3536725	121531.74219	27.4558
a,a,a TFT	4.858	5338825	32055.68359	163.8510
TOLUENE	6.717	71854896	314479.71875	290.7620
ETHYLBENZENE	10.508	6011569	228573.29688	26.6622
M & P XYLENE	10.875	82867856	316768.40625	329.1673
O XYLENE	11.933	20666392	221087.17188	93.7797
BFB	13.433	82603816	944778.31250	86.6237

Totals :

272880064		1018.3016

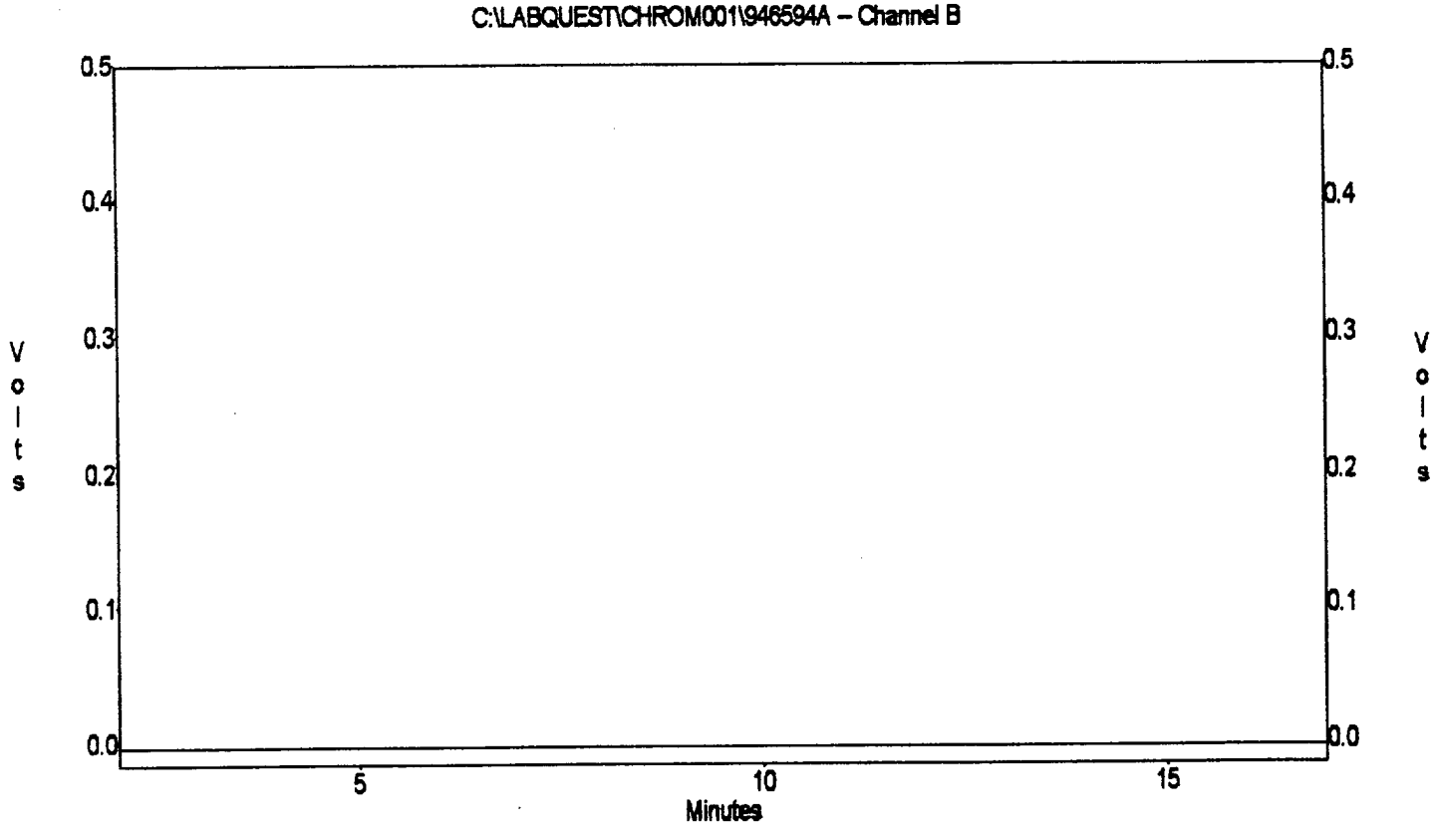


EL PASO NATURAL GAS
EPA METHOD 8020 - BTEX SOILS

File : C:\LABQUEST\CHROM001\946594A
Method : C:\LABQUEST\METHODS\9001.MET
Sample ID : 946594,2.59G/75uL
Acquired : Jan 29, 1995 10:16:30
Printed : Jan 29, 1995 10:33:43
User : Tony

Channel B Results

COMPONENT	RET TIME	AREA	AVG RF	CONC (ug/L)
BENZENE	3.367	0	0.00000	0.0000
a,a,a TFT	4.883	0	0.00000	0.0000
TOLUENE	6.700	0	0.00000	0.0000
ETHYLBENZENE	10.480	0	0.00000	0.0000
M & P XYLENE	10.833	0	0.00000	0.0000
O XYLENE	11.900	0	0.00000	0.0000
BFB	13.400	0	0.00000	0.0000
Totals :		0		0.0000



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 Molly Pitcher #1 90018

Elevation
Borehole Location T30, R14, S14, H
GWL Depth
Logged By Jeff W. Kindley
Drilled By Mike Donahue
Date/Time Started 09/27/95 1019
Date/Time Completed 09/27/95

Well Logged By Jeff W. Kindley
Personnel On-Site M. Donahue, J. Long, C. Millican
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	Drilling Conditions & Blow Counts
0				Backfill material to 10'						
10										
15	1	13-15	1.8/2.0	SW, BR SAND, medium-grained dry, dense, hydrocarbon odor					104/122	1034 36 blows per foot
20	2	18-20	1.6/2.0	SW, BR/TN SAND, medium-coarse grained, dry, medium dense, hydrocarbon odor.					131/408	1040 146 blows per foot
25	3	23-25	1.6/2.0	S.A.A.					38/52	1050 116 blows per foot
30	4	28-30	1.4/2.0	SW, Yellow SAND, coarse-grained dry, medium dense, hydrocarbon odor.					39/51	1100 196 blows per foot
35	5	33-35	1.3/2.0	S.A.A. Boring terminated at 35 feet					12/11	1115 356 blows per foot
40										

Comments: Samples collected From 33-35 feet (JWK 91 and 92). Duplicate also collected. Samples analyzed for BTEX/TPH. BH grouted to the surface

Geologist Signature Jeffrey Kindley

El Paso Natural Gas Company

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

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	JWK91	947557
MTR CODE | SITE NAME:	90018	Molly Pitcher #1
SAMPLE DATE | TIME (Hrs):	09-27-95	1115
PROJECT:	Phase II Drilling	
DATE OF TPH EXT. | ANAL.:	9/28/95	
DATE OF BTEX EXT. | ANAL.:	9/28/95	9/28/95
TYPE | DESCRIPTION:	VG	Light brown Sand & Sand stone

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			1.97	28
HEADSPACE PID	11	PPM				
PERCENT SOLIDS	91.8	%				

-- 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: 9-29-95

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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                     *
**********************************************************
*
 95/09/28   14:32
*
*  Sample identification
 947557
*
*  Initial mass of sample, g
 1.970
*
*  Volume of sample after extraction, ml
 28.000
*
*  Petroleum hydrocarbons, ppm
 3.070
*  Net absorbance of hydrocarbons (2930 cm-1)
 0.011
*
*
*
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