

Henry L. Frost
EL PASO FIELD SERVICES
PRODUCTION PIT CLOSURE
JUL 2 1998

RECEIVED
JUL 2 1998

Approved
J.C. GORDON D #2E DK
Meter/Line ID - 94142

OIL CON. DIV.

SITE DETAILS

Legals - Twn: 27	Rng: 10	Sec: 22	Unit: M
NMOCD Hazard Ranking: 40			Land Type: 2 - Federal
Operator: AMOCO PRODUCTION COMPANY			Pit Closure Date: 09/07/94

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>94142</u> Location: <u>J.C. Gordon D #2E DK</u></p> <p>Operator #: <u>0203</u> Operator Name: <u>Ameco</u> P/L District: <u>Angel Peak</u></p> <p>Coordinates: Letter: <u>M</u> Section <u>22</u> Township: <u>27</u> Range: <u>10</u></p> <p>Or Latitude _____ Longitude _____</p> <p>Pit Type: Dehydrator <u>/</u> Location Drip: <u>✓</u> ^{cmc 8/18/94} Line Drip: _____ Other: _____</p> <p>Site Assessment Date: <u>8/18/94</u> Area: <u>01</u> Run: <u>92</u></p>
SITE ASSESSMENT	<p>NMOCD Zone: (From NMOCD Maps)</p> <p>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 checked="" type="checkbox"/> (1) 50 Ft to 99 Ft (10 points) <input type="checkbox"/> (2) Greater Than 100 Ft (0 points) <input 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 checked="" type="checkbox"/> (1) 200 Ft to 1000 Ft (10 points) <input type="checkbox"/> (2) Greater Than 1000 Ft (0 points) <input type="checkbox"/> (3)</p> <p>Name of Surface Water Body <u>East Fork Kutz 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) <input type="checkbox"/> (2) > 100'</p> <p>TOTAL HAZARD RANKING SCORE: <u>40</u> POINTS</p>
REMARKS	<p>Remarks : <u>Redline Book: Inside, Vulnerable Zone Top: Inside</u></p> <p><u>1 pit. Will close. Pit has very small amount of water in it.</u></p> <p><u>DIG + HAUL</u></p>

ORIGINAL PIT LOCATION	<div data-bbox="636 114 1093 158" data-label="Section-Header"><p>ORIGINAL PIT LOCATION</p></div> <div data-bbox="210 171 1542 281" data-label="Text"><p>Original Pit : a) Degrees from North <u>93°</u> Footage from Wellhead <u>106'</u> b) Length : <u>18'</u> Width : <u>18'</u> Depth : <u>3'</u></p></div> <div data-bbox="215 320 1537 900" data-label="Diagram"><p>The diagram illustrates the location of the original pit. A vertical line represents the North direction, indicated by an 'N' at the top. A horizontal line extends to the right from a point, representing the wellhead. A line segment connects the wellhead to the center of a circle representing the pit. This segment is labeled '106'' and the angle between the North arrow and this segment is labeled '93°'. To the right of the pit, a rectangle represents the pit's dimensions, labeled '18'' for both length and width.</p></div>
REMARKS	<div data-bbox="204 958 409 997" data-label="Text"><p>Remarks :</p></div> <div data-bbox="204 997 1537 1512" data-label="Text"><p><u>Pictures @ 1442</u></p><p>_____</p><p>_____</p><p>_____</p><p>_____</p><p>_____</p><p>_____</p><p>_____</p><p>_____</p><p>_____</p><p>_____</p></div>
	<div data-bbox="204 1557 463 1596" data-label="Text"><p>Completed By:</p></div> <div data-bbox="295 1630 819 1760" data-label="Text"><p><u>Cory Chase</u> Signature</p></div> <div data-bbox="1071 1656 1239 1760" data-label="Text"><p><u>8/18/94</u> Date</p></div>

PHASE I EXCAVATION

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: <u>94142</u> Location: <u>J.C. Gordon D#2E OK</u> Coordinates: Letter: <u>M</u> Section <u>22</u> Township: <u>27</u> Range: <u>10</u> Or Latitude _____ Longitude _____ Date Started : <u>9-7-94</u> Run: <u>01</u> <u>92</u>
FIELD OBSERVATIONS	Sample Number(s): <u>MK303</u> Sample Depth: <u>10</u> Feet Final PID Reading <u>592</u> PID Reading Depth <u>10</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>40</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 style="text-align: right;"> <input type="checkbox"/> Tierra Name: _____ </div> </div> Pit Closure Date: <u>9-7-94</u> Pit Closed By: <u>BEI</u>
REMARKS	Remarks : <u>Pit Had about 6" of water in it soil was black when started digging turn Gray at sample depth it Rock about 6' keep going till 10' Couldn't dig anymore</u>
	Signature of Specialist: <u>Morgan Killian</u>



FIELD SERVICES LABORATORY
ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	mh303	946059
MTR CODE SITE NAME:	94142	N/A
SAMPLE DATE TIME (Hrs):	9-7-94	1036
SAMPLED BY:	N/A	
DATE OF TPH EXT. ANAL.:	9-8-94	9-8-94
DATE OF BTEX EXT. ANAL.:	9/11/94	9/11/94
TYPE DESCRIPTION:	VC	LIGHT BROWN SAND & CLAY

REMARKS:

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	0.28	MG/KG	1			
TOLUENE	1.4	MG/KG	1			
ETHYL BENZENE	1.7	MG/KG	1			
TOTAL XYLENES	19	MG/KG	1			
TOTAL BTEX	22	MG/KG				
TPH (418.1)	4020	MG/KG			1.97	28
HEADSPACE PID	592	PPM				
PERCENT SOLIDS	87.3	%				

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

The Surrogate Recovery was at 61% for this sample All QA/QC was acceptable.

Narrative:

ATI results attached. * outside ATI quality control limits
due to matrix interference

DF = Dilution Factor Used

Approved By:

J.P.

Date:

9/30/94

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

* 94/09/08 14:07

* Sample identification

* 946059

* Initial mass of sample, g

* 1.970

* Volume of sample after extraction, ml

* 28.000

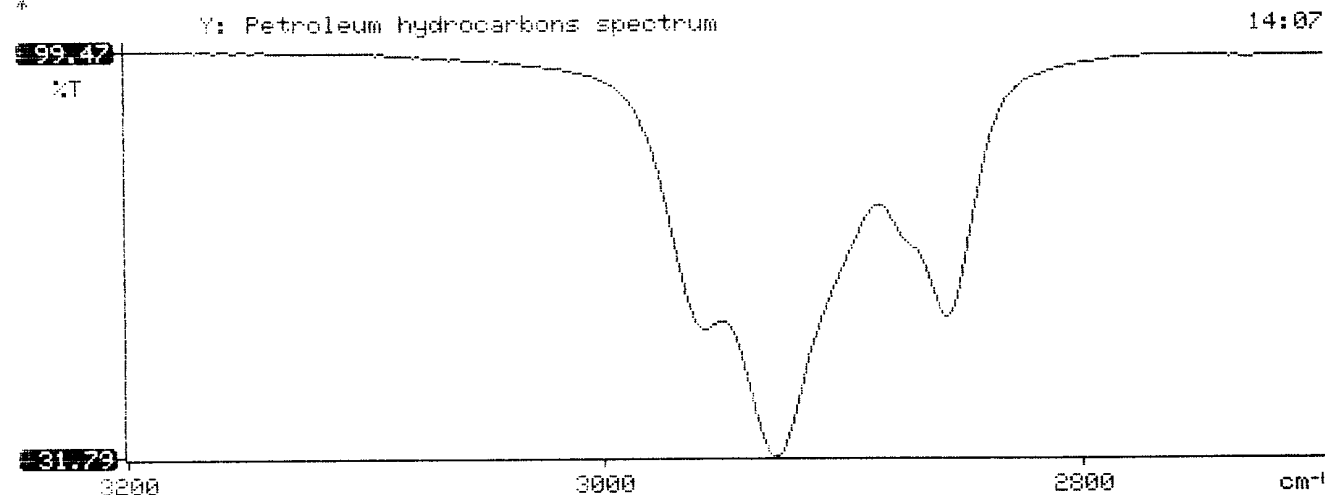
* Petroleum hydrocarbons, ppm

* 4024.908

* Net absorbance of hydrocarbons (2930 cm⁻¹)

* 0.494

*
 *
 *





Analytical **Technologies**, Inc.

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

ATI I.D. 409334

September 15, 1994

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

Project Name/Number: PIT CLOSURE 24324

Attention: John Lambdin

On 09/09/94, 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.

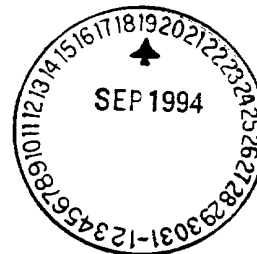
If you have any questions or comments, please do not hesitate to contact us at (505) 344-3777.

Letitia Krakowski, Ph.D.
Project Manager

H. Mitchell Rubenstein, Ph.D.
Laboratory Manager

MR:jt

Enclosure



GAS CHROMATOGRAPHY RESULTS

TEST : BTEX (EPA 8020)
CLIENT : EL PASO NATURAL GAS CO. ATI I.D.: 409334
PROJECT # : 24324
PROJECT NAME : PIT CLOSURE

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
01	946054	NON-AQ	09/06/94	09/11/94	09/11/94	1
02	946055	NON-AQ	09/06/94	09/11/94	09/11/94	20
03	946059	NON-AQ	09/07/94	09/11/94	09/11/94	1

PARAMETER	UNITS	01	02	03
BENZENE	MG/KG	<0.025	2.3	0.28
TOLUENE	MG/KG	2.7	26	1.4
ETHYLBENZENE	MG/KG	0.94	11	1.7
TOTAL XYLENES	MG/KG	8.8	77	19

SURROGATE:

BROMOFLUOROBENZENE (%) 107 87 61*

*OUTSIDE ATI QUALITY CONTROL LIMITS DUE TO MATRIX INTERFERENCE

PHASE II

RECORD OF SUBSURFACE EXPLORATION

PHILIP ENVIRONMENTAL

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

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

Project Name EPNG Pits
Project Number 14509 Phase 6000.77
Project Location J.C. Gordon D # 2 E DK
94142
Well Logged By Jeff W. Kindley
Personnel On-Site G. Sudduth, D Roberts, H Kail
Contractors On-Site _____
Client Personnel On-Site _____

Elevation _____
Borehole Location T 27, R 10, S 22, m
GWL Depth _____
Logged By Jeff W. Kindley
Drilled By G. Sudduth
Date/Time Started 08/29/95 1258
Date/Time Completed 08/29/95 1343

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			Drilling Conditions & Blow Counts
							BZ	BH	S/H	
0				Backfill material to 12'						
5										
10										
15	1	13-15	27 210	CL, GRCLAY, Dry, hard, low plasticity, no odor.					25/ 3	1326 100 blows per Foot
20										
25										
30										
35										
40										

Comments:

Auger refusal at 15 feet. sample collected from 13 to 15 feet
and submitted for analysis of BTEX and TPH. (JW K 55)
BH grouted to the surface

Geologist Signature

Jeffrey Kindley



FIELD SERVICES LABORATORY

ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	JWK 55	947362
MTR CODE SITE NAME:	94142	J.C. Gordon D #2E DK
SAMPLE DATE TIME (Hrs):	08-29-95	1326
PROJECT:	Phase II Drilling	
DATE OF TPH EXT. ANAL.:	8/30/95	
DATE OF BTEX EXT. ANAL.:	8/30/95	9/5/95
TYPE DESCRIPTION:	VG	Light gray sand & sandstones

Field Remarks: _____

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	< .5	MG/KG				
TOLUENE	< .5	MG/KG				
ETHYL BENZENE	< .5	MG/KG				
TOTAL XYLENES	< 1.5	MG/KG				
TOTAL BTEX	< 3	MG/KG				
TPH (418.1)	39.9	MG/KG			2.04	28
HEADSPACE PID	3	PPM				
PERCENT SOLIDS	91.5	%				

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

The Surrogate Recovery was at
Narrative: _____

94%

for this sample All QA/QC was acceptable.

DF = Dilution Factor Used

Approved By: _____

Date: _____

9-7-95

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

95/08/30 13:51

* Sample identification

947362

* Initial mass of sample, g

2.040

* Volume of sample after extraction, ml

28.000

* Petroleum hydrocarbons, ppm

39.947

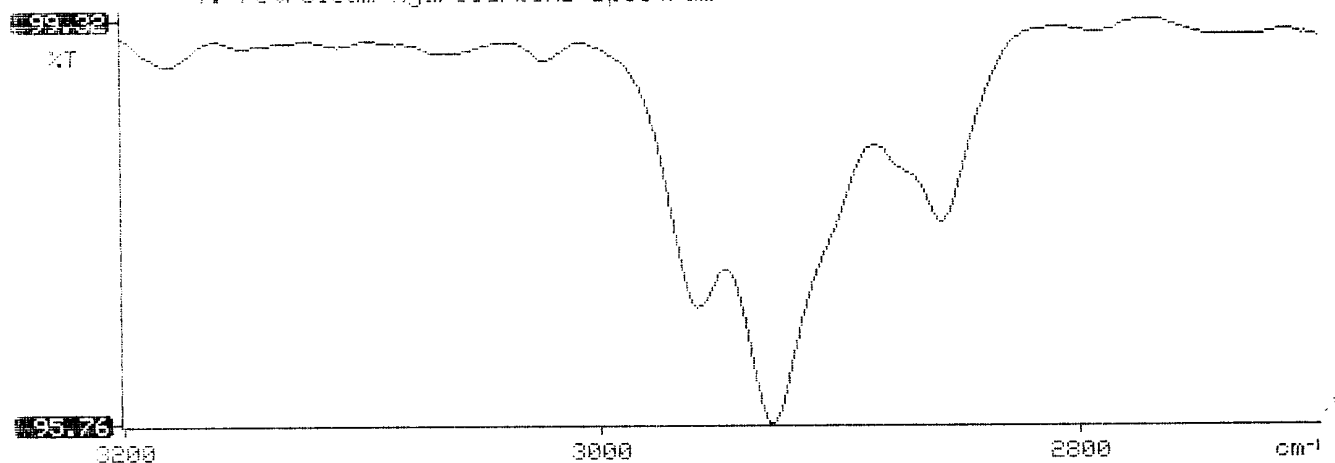
* Net absorbance of hydrocarbons (2930 cm⁻¹)

0.015

*
 *
 *

Y: Petroleum hydrocarbons spectrum

13:51



BTEX SOIL SAMPLE WORKSHEET

File	:	947362	Date Printed	:	9/6/95
Soil Mass (g)	:	4.99	Multiplier (L/g)	:	0.00100
Extraction vol. (mL)	:	20	DF (Analytical)	:	200
Shot Volume (uL)	:	100	DF (Report)	:	0.20040

				Det. Limit
Benzene (ug/L)	:	0.00	Benzene (mg/Kg):	0.000 0.501
Toluene (ug/L)	:	0.00	Toluene (mg/Kg):	0.000 0.501
Ethylbenzene (ug/L)	:	0.00	Ethylbenzene (mg/Kg):	0.000 0.501
p & m-xylene (ug/L)	:	0.00	p & m-xylene (mg/Kg):	0.000 1.002
o-xylene (ug/L)	:	0.00	o-xylene (mg/Kg):	0.000 0.501
			Total xylenes (mg/Kg):	0.000 1.503
			Total BTEX (mg/Kg):	0.000

**EL PASO NATURAL GAS
EPA METHOD 8020 - BTEX SOILS**

File : C:\LABQUEST\CHROM001\090595-1.007
Method : C:\LABQUEST\METHODS\9001.MET
Sample ID : 947362,4.99G,100U
Acquired : Sep 04, 1995 14:58:25
Printed : Sep 04, 1995 15:24:49
User : MARLON

Channel A Results

COMPONENT	RET TIME	AREA	CONC (ug/L)
BENZENE	3.390	0	0.0000
a,a,a TFT	4.937	2126591	89.3559
TOLUENE	6.770	143329	-0.6124
ETHYLBENZENE	10.540	0	0.0000
M & P XYLENE	10.893	299327	-2.5954
O XYLENE	11.877	0	0.0000
BFB	13.443	33001730	93.9559

