Risk-bahaf

## EL PASO FIELD SERVICES PRODUCTION PIT CLOSURE

Florance #111 DK & PC Meter/Line ID - 94403, 94404

OCT 2000

SITE DETAILS

Rng: 8

Legals - Twn: 30

NMOCD Hazard Ranking: 20

Operator: Amoco

Sec: 19

Land Type: BLM

Pit Closure Date: 05/11/24

Unit: G

#### RATIONALE FOR CLOSURE

The pit noted above was assessed and ranked according to the criteria in the New Mexico Oil Conservation Division's (NMOCD) Unlined Surface Impoundment Closure Guidelines.

A pit was excavated to 12 feet, where cobble was encountered, and a soil sample was collected for field headspace analysis and laboratory analysis for benzene, total BTEX, and TPH. Groundwater was not encountered in the pit. Approximately 95 cubic yards of material was removed for landfarming and sent to an OCD approved centralized site. The pit was backfilled and graded in a manner to direct surface runoff away from the pit area. Headspace analysis indicated an organic vapor content of 594 ppm; laboratory analysis indicated a benzene concentration of <0.5 mg/kg, a total BTEX concentration of 155 mg/kg, and a TPH concentration of 19,600 mg/kg.

A Phase II drill was conducted on June 15, 1995, to refusal at a depth of 12.5 feet below ground surface, where bedrock was encountered.

A Phase III excavation was conducted on December 2, 1995, to a depth of 13 feet below ground surface, where bedrock was encountered and a soil sample was collected for field headspace analysis and laboratory analysis for benzene, BTEX, and TPH. Groundwater was not encountered in the excavation. Approximately 570 cubic yards of excavated material was removed for landfarming and sent to an OCD approved, centralized site. Headspace analysis indicated an organic vapor content of 1,433 ppm; laboratory analysis indicated a benzene concentration of <0.5 mg/kg, a total BTEX concentration of 8.2 mg/kg, and a TPH concentration of 1,120 mg/kg.

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

- The primary source, discharge to the pit, has been removed for over six years.
- The pit was backfilled and the former pit area graded to direct surface runoff away from the former pit.
- Residual hydrocarbons in the soil will degrade by natural attenuation with minimal risk to the environment.
- Groundwater was not encountered in the excavation.
- Excavated material has been removed from the pit, eliminating potential direct contact with livestock or the public.
- There are no water supply wells or other sources of fresh water extraction within 1,000 feet of the site.

### FIELD PIT SITE ASSESSMENT FORM

GENERAL	Meter: 94404 Location: FLORANCE # 111 DK & PC  Operator #: 0203 Operator Name: Amoco P/L District: BLOOMFIELD  Coordinates: Letter: G Section 19 Township: 30 Range: 8  Or Latitude Longitude  Pit Type: Dehydrator Location Drip: X Line Drip: Other:  Site Assessment Date: 4.27.94 Area: 10 Run: 22
	NMOCD Zone:  (From NMOCD  Maps)  Inside  Outside  Depth to Groundwater  Land Type: BLM (1)  State (2)  Fee (3)  Indian  (1)
]	Less Than 50 Feet (20 points) (1) 50 Ft to 99 Ft (10 points) (2) Greater Than 100 Ft (0 points) (3)
ASSESSMENT	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)
SITE ASS	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 SAN JUAN RIVER  (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'
1	TOTAL HAZARD RANKING SCORE: 20 POINTS
KS	Remarks : Two PITS ON LOCATION. WILL CLOSE ONLY ONE. PIT IS DRY.
MARKS	LOCATION IS ON A CLIFF NEXT TO THE SAN JUAN PIVER REDLINE AND TOPO  CONFIRMED LOCATION TO BE INSIDE THE V.Z.

·	ORIGINAL PIT LOCATION  Original Pit: a) Degrees from North <u>58°</u> Footage from Wellhead <u>106′</u> b) Length: <u>29′</u> Width: <u>27′</u> Depth: <u>4′</u>
ORIGINAL PIT LOCATION	Sgo 27'
	Remarks:
	TOOK PICTURES AT 1:24 P.M. END DUMP
ARKS	
REMARKS	
REMARKS	
REMARKS	
REMARKS	PAND DUMP



# FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT - Soil

### SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	KD 52	945124
MTR CODE   SITE NAME:	94404 / 94403	N/A
SAMPLE DATE   TIME (Hrs):	5.11.94	1400
SAMPLED BY:		N/A
	5-12-94	5-12-94
DATE OF TPH EXT.   ANAL.:	5-12-94	5-12-94
		5-12-94 5/18/94 Black Sand

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R	F	SI	Ji	Ľ	T

REMARKS:

				QUALIFI	EDS	
PARAMETER	RESULT	UNITS	DF	Q	M(g)	V(ml)
BENZENE	60.50	MG/KG	20			
TOLUENE	4.1	MG/KG	20			
ETHYL BENZENE	10	MG/KG	20			
TOTAL XYLENES	140	MG/KG	20			
TOTAL BTEX	155	MG/KG				
TPH (418.1) 19,600	19590-J	DS/14/AY			:55	28
HEADSPACE PID	594	PPM				
PERCENT SOLIDS	93.8	%				

- 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.
	Surrogate recovery was outside
ATI OC limits due	to matrix interference.
DF = Dilution Factor Used	. /. /
Approved By: John Farth.	Date:



### GAS CHROMATOGRAPHY RESULTS

TEST

: BTEX (EPA 8020)

CLIENT

: EL PASO NATURAL GAS CO. ATI I.D.: 405359

PROJECT #

: 24324

PROJECT NAME : PIT CLOSURE

LICONIC	1 111212					~ ~ ~
SAMPLE TD #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
ID. #	945124	NON-AQ	05/11/94	05/17/94	05/18/94	20
08	945125	NON-AQ	05/11/94	05/17/94	05/18/94	50
09	945126	NON-AQ	05/11/94	05/17/94	05/18/94	1
PARAMI			UNITS	07	08	09
BENZEN			MG/KG	<0.50	5.7	<0.025
TOLUE			MG/KG	4.1	130	<0.025
	BENZENE		MG/KG	10	57	<0.025
	XYLENES		MG/KG	140	780	0.057
SURRO	GATE: FLUOROBENZENE	(%)		182*	NA**	96

BROMOFLUOROBENZENE (%)

<sup>\*</sup>OUTSIDE ATI QUALITY CONTROL LIMITS DUE TO MATRIX INTERFERENCE \*\*SURROGATE RECOVERY NOT OBTAINABLE DUE TO SAMPLE DILUTION



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. 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



### FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: 94403 Location: Florance # 111 DK & PC  Coordinates: Letter: G Section 19 Township: 30 Range: 8  Or Latitude Longitude  Date Started: S-11-94 Area: 10 Run: 22
L OBSERVATIONS	Sample Number(s): KD52  Sample Depth: IZ' Feet  Final PID Reading 594 PPM PID Reading Depth IZ' Feet  Yes No  Groundwater Encountered (1) (1) (2) Approximate Depth Feet
CLOSURE	Remediation Method:  Excavation  Onsite Bioremediation  Backfill Pit Without Excavation  Soil Disposition:  Envirotech  Other Facility  Pit Closure Date: 5-11-94  Pit Closed By: 95  (1) Approx. Cubic Yards  (2)  (3)  Tierro  Pit Closed By: 8ET
Sym [	Remarks: Very Large Pit-Cobble Layer Started At About 4H- Took Exemulation to 12' Took PiD Sample, Closed Pit  Nama Aran

# CHAIN OF CUSTODY RECORD

PROJECT NUMBER PROJECT NAME					BEOLIFICATED ANALYSIS	SYIANA	u.	CONTIA	CONTRACT LABORATORY P. O. NUMBER	UMBER
	Pit Closure Project # 24324	883 883			10000		,   ,			
SAMPLERS: (Signature) //	DATE: 5-11-94	MUN JA NIATNO	SAMPLE TYPE		8050 EX					
LABID DATE TIME MATRIX	SAMPLE NUMBER	\TOT D ₹0		473 78	A93					REMARKS
1.03 0760 44.11-3 56.12	KD51	_	, 72	×	\ \		45	-	Soil SoliA Black	Black
S-1144 1600	KD52		1/2/	×	\.		<i>%</i>	1,05/		Solia Black
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Kymy Jeone	1800 5-11-94 Aust	1.	4			1-1=	h	5	12/94 1245	
RELINQUIS/YED BY: (Signature)	DATE/TIME RECEIVED BY: (Signature)	(gnature)			RELINQUISHED BY: (Signature)	) BY: (Signatu	re)		DATE/TIME	RECEIVED OF LABORATORY BY: (Signature)
										Majorden
REQUESTED TURNAROUND TIME:	SAMPLE RECEIPT REMARKS	r REMARK					RESULTS	RESULTS & INVOICES TO:	eleLD SERVI	FIELD SERVICES LABORATORY
CARRIER CO.							T		P. O. BOX 49	EL PASO NATURAL GAS COMPANY P. O. BOX 4990 FA PANYCTON NEW MEYICO 97409
BILL NO.:	CHARGE CODE						505-599-2144		PARMINGIO	N, NEW MEAICO 07499 FAX: 505-599-2261

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

### RECORD OF SUBSURFACE EXPLORATION

944-3/94404

Project Location

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

Philip	Environmental	Services	Согр
1 map	Cat in Comments	DC: TCC	- U - P

4000 Monroe Road

Fermington, New Mexico 87401

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

Elevation

Borehole Location

GWL Depth

Logged By

Drilled By

S.Kelly

Drilled By

Date/Time Started 6/15/95, 6925
Date/Time Completed 6/15/95, 6950

 Project Name
 EPNG Pits

 Project Number
 14509
 Phase
 601

Well Logged By
Personnel On-Site
Contractors On-Site
Client Personnel On-Site

Drilling Method

Air Monitoring Method

CGI, PID

Depth (Feet)	Sample Number	Sample Interval	Sample Type & Recovery (inches)	Sample Description Classification System: USCS	USCS Symbol	Depth Lithology Change (feet)		Monitor	ring DUS/ft	Drilling Conditions & Blow Counts
10 - 10 - 15 - 20 - 25 - 30 - 35	して	10-12 125-145		Backfill to 12)  cobble at 9'  SAND, dk grex, med. to coorse, with fine to med. gravel 15-20% subangular, loose dry.  BOH-14.5		OK Q15195	O M)	0 3	175 1611 124 1016	DE 0940 DE 0950 DOUGH SOMPLE

Comments: Auger refusal at 12.5. No sample taken due to high
herrispece readings at refusal. BH grouted to
SUFFACE.

Geologist Signature

South Relly.

### RECORD OF SUBSURFACE EXPLORATION

Philip Environmental Services Corp. 4000 Monroe Road Farmington, New Mexico 87401 (505) 328-2262 FAX (506) 326-2388

**EPNG Pits** 

Farmington, New Mexico 87401 605) 328-2282 FAX (606) 326-2388	Project Number 14509 Phase 60 Project Location Florance #IIIDK4P
Elevation  Borehole Location  GWL Depth  Logged By  Drilled By  Date/Time Started  SIKElly  Date/Time Completed  SIKELLY  SIKELLY	Well Logged By Personnel On-Site Contractors On-Site Client Personnel On-Site  Drilling Method Air Monitoring Method  CGI, PID

Project Name

Depth Single (Peet) Single (Pe

Comments: readings at Geologist Signature

LEGIDLE

CHAIN OF CUSTODY RECORD

Page\_

PROJECT NUMBER PROJECT NAME # 24324 Pit Closure Project		88:		REO	REQUESTED ANALYSIS	VALYSIS		CONTRACT LABORATORY P. O. NUMBER	
Salue) The DATE.	29-4-61	BMUN JA SONTAINE:	SAMPLE TYPE Ho	8050 EX	Gl4		# ENCE		
TIME MATRIX	FIELD ID				BAJ		SEON	REMARKS	
7,02 051, 2º4:00 058 DB	4999	1 1	VC X	X			B	Florance # 11/0K+Pc 94404	
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RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	nature)	0 "	RELINO	RELINQUISHED BY: (Signature)	Signature)		17/ DATESTIME 340 RECEIVED BY: (Signature)	
S. S	- Kensey	YNWCh	3	<u>-</u> 2	KUM SIN	Wal		/Ar 10:0 T	
RELINGUISHED BY (Signature)	RECEIVED BY: (Signature	nature)		RELING	RELINQUISHED BY: (Signature)	(Signature)		DATE/TIME RECEIVED OF LABORATORY BY: (Signature)	
REQUESTED TURNAROUND TIME:  C) ROUTINE C) RUSH	SAMPLE RECEIPT REMARKS	REMARKS				E .	SULTS & IN	RESULTS & INVOICES TO: FIELD SERVICES LABORATORY	
CARRIER CO.								P. O. BOX 4990	
BILL NO.:	CHARGE CODE					50	505-599-2144		



# FIELD SERVICES LABORATORY ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

### SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	JP99	947830
MTR CODE   SITE NAME:	94403/94404	Florance#111 DK & PC
SAMPLE DATE   TIME (Hrs):	12-4-95	1130
PROJECT:	Phase III Exca-	ation
DATE OF TPH EXT.   ANAL.:	12/6/95	
DATE OF BTEX EXT.   ANAL.:	12/6/95	12/6/95
TYPE   DESCRIPTION:	VC	Light trong Sand
·		4

Field Remarks:  $(N-03)(5-01)(E-21)(\omega-13)$ 

### **RESULTS**

uka Aukelia. Hari	RESULT	UNITS		QUALIFIE	RS	
PARAMETER			DF	Q ALL	M(g)	V(ml)
BENZENE	L 0.5	MG/KG				
TOLUENE	0.6	MG/KG				
ETHYL BENZENE	0.7	MG/KG				
TOTAL XYLENES	7.9	MG/KG		· · · · · · · · · · · · · · · · · · ·		
TOTAL BTEX	8.2	MG/KG				
TPH (418.1)	1120	MG/KG			1.97	128
HEADSPACE PID	1433	PPM				2
PERCENT SOLIDS	96.0	%				

### **BTEX SOIL SAMPLE WORKSHEET**

File : Soil Mass (g) : Extraction vol. (mL) : Shot Volume (uL) :	947830 5.06 10 50	Date Printed:  Multiplier (L/g):  CAL FACTOR (Analytical):  CAL FACTOR (Report):	12/7/95 0.00099 200 0.19763
Benzene (ug/L) : Toluene (ug/L) :	0.00 2.88	DILUTION FACTOR: Benzene (mg/Kg): Toluene (mg/Kg):	1 Det. Limit 0.000 0.494 0.569 0.494
Ethylbenzene (ug/L): p & m-xylene (ug/L): o-xylene (ug/L):	3.40 30.79 8.93	Ethylbenzene (mg/Kg):  p & m-xylene (mg/Kg):  o-xylene (mg/Kg):  Total xylenes (mg/Kg):  Total BTEX (mg/Kg):	0.6720.4946.0850.9881.7650.4947.8501.4829.091