### EL PASO FIELD SERVICES PRODUCTION PIT CLOSURE



### Florance No. E1 (Pit 2) Meter/Line ID – 70616

SITE DETAILS

Legals - Twn: 29N

Rng: 10W

ec: 1 Unit: L

**NMOCD Hazard Ranking: 20** 

Land Type: BLM

Operator: Amoco

Pit Closure Date: 06/09/94

#### RATIONALE FOR RISK-BASED 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 test pit was excavated on June 9, 1994, to four feet below ground surface and a soil sample was collected for field headspace analysis and laboratory analysis for TPH. Groundwater was not encountered in the test pit. 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 164 ppm; laboratory analysis indicated a TPH concentration of 9630 mg/kg. TPH was above required remediation levels for the Hazard Ranking Score. This site was re-assessed on April 13, 1998, because the initial assessment incorrectly included washes as a surface water body.

On November 15, 1995, a Phase II drill borehole was conducted to a depth of 10.5 feet below ground surface, 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 borehole. Headspace analysis indicated an organic vapor content of 0 ppm; laboratory analysis indicated a benzene concentration of <0.5 mg/kg, a total BTEX concentration of <3 mg/kg, and a TPH concentration of <20 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 almost six years.
- The test pit was backfilled and the former pit area graded to direct surface runoff away from the former pit.
- Groundwater was not encountered in the excavations.
- Residual hydrocarbons in the soil will degrade naturally with minimal risk to the environment.
- Based on the Hazard Ranking Score, benzene, total BTEX, and TPH were below required remediation levels for the Hazard Ranking Score.
- There are no water supply wells or other sources of fresh water extraction within 1,000 feet of the site.

#### **ATTACHMENT**

Field Pit Assessment Form Field Pit Remediation/Closure Form Phase II Geologic Log Revised Field Pit Assessment Form Laboratory Analytical Results

# **REVISED**FIELD PIT SITE ASSESSMENT FORM

GENERAL	Meter: 706/b Location: Florage Operator #: Operator Name Coordinates: Letter: Section Or Latitude Location Pit Type: Dehydrator Location Site Assessment Date: 4/13/98	e: P/L  Township: 2 9  ongitude  Drip: Line Dr	District: Range: 10
	NMOCD Zone:	Land Type:	BLM 🔀 (1)
	(From NMOCD		State (2)
	Maps) Inside	<b>(1)</b>	Fee (3)
	Outside	(2)	Indian
	Depth to Groundwater		
	Less Than 50 Feet (20 points)	$\boxtimes$ (1)	
	50 Ft to 99 Ft (10 points)	(2)	
	Greater Than 100 Ft (0 points)	<b>(3)</b>	
4	Wellhead Protection Area		
ASSESSMEN.	Is it less than 1000 ft from wells, springs extraction?, or; Is it less than 200 ft from		
SES	[] (1) y	YES (20 points)	$\times$ (2) NO (0 points)
188	Horizontal Distance to Surface Water	• • • • • • • • • • • • • • • • • • • •	(* 1)
LE /	Less Than 200 Ft (20 points)	<u>(1)</u>	
SIT	200 Ft to 1000 Ft (10 points)	<b>(2)</b>	
	Greater Than 1000 Ft (0 points)	$\boxtimes$ (3)	
	Name of Surface Water Body	, 	
	(Surface Water Body: Perennial Rivers, S Ditches, Lakes, Ponds)	treams, Creeks, Irrigat	ion Canals,
	Distance to Nearest Ephemeral Stream		00' (Navajo Pits Only)
	_	(2) > 10	•
	TOTAL HAZARD RANKING SCORE:_	2.5	POINTS
KS	Remarks: Site has been re-assessed,	due to initial assessm	ent including washes
7 1 1	as a Surface Water Body. Site is a		
REMKS	I C \ I \ I \ C \ Vame		as the center
RE			

### FIELD PIT SITE ASSESSMENT FORM

GENERAL	Meter: 7066 Location: FLORANCE # E1 (PIT #2)  Operator #: 0203 Operator Name: Amoco P/L District: BloomFIELD  Coordinates: Letter: L Section L Township: 29 Range: 10  Or Latitude Longitude Pit Type: Dehydrator X Location Drip: Line Drip: Other: Site Assessment Date: 5.4.94 Area: 10 Run: 73
SITE ASSESSMENT	NMOCD Zone:  (From NMOCD  Maps)  Inside  Outside  (1)  Fee  (3)  Outside  Indian  Depth to Groundwater  Less Than 50 Feet (20 points)  Greater Than 100 Ft (0 points)  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?  Horizontal Distance to Surface Water Body  Less Than 1000 Ft (10 points)  Greater Than 1000 Ft (20 points)  (2)  Greater Than 200 Ft (20 points)  (3)  Horizontal Distance to Surface Water Body  Less Than 200 Ft (10 points)  (3)  Name of Surface Water Body  (Surface Water Body: Perennial Rivers, Major Wash, Streams, Creeks, Irrigation Canals, Ditches, Lakes, Ponds)  Distance to Nearest Ephemeral Stream  (1) < 100'(Navajo Pits Only)
	TOTAL HAZARD RANKING SCORE: $20$ POINTS
REMARAS	Remarks M EIGHT PITS ON LOCATION - WILL CLOSE TWO OF THEM, PIT IS A LITTLE OILY, REOLINE AND TOPO CONFIRMED LOCATION TO BE OUTSIDE THE V.Z.
R	PVSH IN. 1 (SP3190) 04/08/98

Z	ORIGINAL PIT LOCATION  Original Pit: a) Degrees from North 190° Footage from Wellhead 30′ b) Length: 30′ Width: 20′ Depth: 4′
ORIGINAL PIT LOCATION	30'
	Remarks:  TOOK PICTURES AT 11:58 A.M.  END PUMP
RKS	
REMAF	
	Completed By:
	Signature Date

### FIEL: IT REMEDIATION/CLOSU FORM

<b>J.</b> .	
GENERAL	Meter: 706/6 Location: Florance #E1 (P.+ #2)  Coordinates: Letter: L Section L Township: 29 Range: 10  Or Latitude Longitude  Date Started: 6-9-94 Area: 10 Run: 73
FIELD OBSERVATIONS	Sample Number(s): VW 181 VW 182 VW 183  Sample Depth: 4 Feet  Final PID Reading 164 PID Reading Depth 4 Feet  Yes No  Groundwater Encountered (1) (2) Approximate Depth Feet
URE	Remediation Method:  Excavation
CLOSI	Soil Disposition:  Envirotech (1) (3) Tierra  Other Facility (2) Name:  Pit Closure Date: 6-9-94 Pit Closed By: BEJ
RKS	Remarks: Line Morkers, 8" standing water in pit, Black soil 0"-4"
REMARKS	
	Signature of Specialist: Val Willey



# FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT - Soil

#### SAMPLE IDENTIFICATION

	SAIVIPLE	DENTIFICA	TION		
	Fiel	ld ID		Lab ID	
SAMPLE NUMBER:	٧س ١٩	•	945	1413	
MTR CODE   SITE NAME:	7061			I/A	
SAMPLE DATE   TIME (Hrs):	6-9-	94	10	40	
SAMPLED BY:		N	/A		
DATE OF TPH EXT.   ANAL.:	6/16	94	6/169	74	
DATE OF BTEX EXT.   ANAL.:	NIA		1/14	101	
TYPE   DESCRIPTION:	٧G		Black S	znd/CAY-	· m lixed
REMARKS:	Revon 7	-PH	* Re Ru		mixed on $6/27=6$
		RESULTS		1.959 28	<u>nl</u>
PARAMETER	RESULT	UNITS	DF ]	QUALIFIERS Q N	Ng) V(mi)
BENZENE		MG/KG			
TOLUENE		MG/KG			
ETHYL BENZENE		MG/KG			
TOTAL XYLENES		MG/KG			
TOTAL BTEX		MG/KG			
TPH (418.1)	9630 X	MG/KG		1.	02 28
HEADSPACE PID	164	PPM			
PERCENT SOLIDS	80.8	%			
	- TPH is by EPA Method 4				
TI urrogate Recovery was at Narrative:	NA	% for this sample	All QA/QC w		
* TPH Summary	-6/10 = 3	200, 6/11	<u>=9630</u>	6/27=	6530
DF = Dilution Factor Used	(unn	ixed)	(mixed)		(mixed)
	( ) UX	2 9630 res	ale s	7/- 1/1	
Approved By: According to the control of the contro	MXV	and the second s	Date:	1/11/014	



# FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT - Soil

### **SAMPLE IDENTIFICATION**

	d ID		Lab ID	-	ו
VW 181		945	413		4
70616	(7:t "2)	-	N/A		4
6-9-94			040		4
<del></del>	1011	7	1. 100	<del></del>	 
6/1	0199	9	10144		4
N/H		N/A		01.	<u> </u>
V G-			Sand	Clay	]
		18/OCIL PI	of thes 11	Samp	NC.
		·			
	RESULTS	<u> </u>			
RESULT	UNITS		QUALIF	:IERS	
		DF	Q	M(g)	V(ml
	MG/KG				
·	MG/KG				
3200	MG/KG			0.98	28
164	PPM			i kun ti	:
80.8	%				
1					
MA	% for this sampl	e All QA/QC	was accep	table.	
	70616 6-9-94 6/1 NIA VG	VW 181	VW 181	VW 181	VW 181

Annrived Rv

Date

# **CHAIN OF CUSTODY RECORD**

ا

RECORD O		RFACE EXPLORATION	Borehole # BH- I Well #  Page 1 of I
Farmington, New Mex. (505) 326-2262 FAX (			Project Number 19643 Phase 1001.77 Project Name EPFS PITS >10 Project Location Florance #E1 (PIT #A) 70616
Borehole Location GWL Depth Drilled By Well Logged By Date Started Date Completed	LTR: L S: I  A/A  K. PADILLA  C. CHANCE  L/4/9		Drilling Method 4 1/4 ID HSA Air Monitoring Method PID
Depth Sample (Feet) Number	Sample Sample Type & Interval Recover (inches)	Sample Description Classification System: USCS	USCS Lithology Air Monitoring Drilling Conditions Symbol Change Units: PPM & Blow Counts  (feet) BZ BH S/HS
	- 5	Excavation Sample Collected @ 4'	BZ=Breathing Zone BH=Borehole S/HS=Sample/Headspace

	Depth (Feet)	Sample Number	Sample Interval	Type & Recovery (inches)	Sample Description Classification System: USCS	USCS Symbol	Lithology Change (feet)	1	Monito Inits: PF BH	-	Drilling Conditions & Blow Counts
	0 5		5.5 5-7		Excavation Sample Collected @ 4' Lt gry silty SAND, VF-FS and, Vdense, dry						BZ=Breathing Zone BH=Borehole S/HS=Sample/Headspace
	-  -	١	5-7	6	Lt gry silty SAND, Vt-t SAND, Vt-t SAND, Vdense, dry			0	(	0/0	- 1258h-
	10	5	10-105	4	Lt gry weathered Strostone VF-Fsand hard, lry, mod Cemented			0	b	%	_1305hr
	_ _ _ _ 15				TOB10.5'						
	-		1								
	20										
	25										·
	30										
	35										
•	40										

Comments:	THY). No GW was encountered. BH grouted to surface.
	TAM). No GW was encountered. BH growted to surface.
	Geologist Signature
ESWA II. St. ,	

Phise I Drilling CHAIN OF CUSTODY RECORD 6.35.78 Brul.

BILL NO.:	CARRIER CO.	롲	1	RELINQUISHED W: /S	28	RELINQUISHED BY: (Signature					<i></i>	21 K 3 Va.	780459	854086	780457	LAB(b)	SAMPICARS: (Signatura)	PROJECT NUMBER # 24324
	Cassa	OUND TIME		Signature) ·	( lean	) ) >						2017	1305	11126	0401 86/4/4	DATE TIME	Dere	PROJECT NAME Pit Closure Project
				DATE/TIME	6/4/98 1	DATE/TIME							<	6 1 6	SOL	E MATRIX		e Project
CHARGE CODE	6	SAMPLE RECEIPT REMARKS		ME RECEIVED W: (Signature)	ŏ	ME RECEIVED BY: (Signature)						CW(293	CMC392	MC391	CMC 390	FIELD ID	16/4/98	
	2 24	PEMARKS		gnature)	کے	) pnature)										TOT OF 0	AL NUM CONTAIN	BER ERS
	1	2			£					/					-		SAMPLE TYPE	
	7	ຳ	,,,	2		_ A			4	ס						EPA BT		
				RELINQUISH	4	LINGUISHE			\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		 	$\uparrow$		1		BT EPA LAB		REQUES
				D BY: (Signature)		REUNQUISHED BY: (Signature)		/	3/			4	<	<		794	,	REQUESTED ANALYSIS
505		PES		nature)	Jane	nature)			\		-		0	0	0	Fie	/#	LYSIS
505-599-2144		ULTS & INI	ļ		1		 _									SEQU		
	FIELD SERVICES LABORATORY EL PASO NATURAL GAS COMPANY P. O. BOX 4990	voices fo:	WAS OUX XOUX	DATE/TIME RECEIVED OF LABORATARY BY: (Signal ure)	6/8/18 0933	DATE/TIME RECEIVED BY: (Signature)						EEE11:0+ B#12 75944	Florance E#1 (P+#2) 70616 10-10-5	i	Garcia Cas Com B#1 75/97 30-22'	REMARKS		CONTRACT LABORATORY P. O. NUMBER
7499 <sup>261</sup>	ANY			(Signature)									10-10.5	is	700-22			



# FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT

### **SAMPLE IDENTIFICATION**

<u></u>	Field ID	Lab ID
SAMPLE NUMBER:	CMC392	980459
MTR CODE   SITE NAME:	70616	Florance E #1
SAMPLE DATE   TIME (Hrs):	6/4/98	1305
PROJECT:	Dhees	II Drilling
PROJECT:	rnase	ir Drining
DATE OF TPH EXT.   ANAL.:	6/15/98	6/18/98
·   <del> </del>	······································	T

Field Remarks: 10-10.5'

### **RESULTS**

PARAMETER	RESULT	UNITS	QUALIFIERS  DF   Q   M(g)   V(ml)			
BENZENE	<0.5	MG/KG		<u> </u>	M(g)	Y(mi))
TOLUENE	<0.5	MG/KG				+
ETHYL BENZENE	<0.5	MG/KG				
TOTAL XYLENES	<1.5	MG/KG				
TOTAL BTEX	<3	MG/KG				
TPH (MOD.8015)	<20	MG/KG				
HEADSPACE PID	0	PPM				
PERCENT SOLIDS	92.0	%				

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

The Surrogate Recovery was at	83.7	% for this sample	All QA/QC was acc	ceptable.
f ative:				
DF = Dilution Factor Used				
Approved By: John Flut	<u> </u>		Date: (23)	160

AEN I.D.

806328

June 19, 1998

**EL PASO FIELD SERVICES** 770 WEST NAVAJO FARMINGTON.

NM

87401

Project Name

**PHASE II DRILLING** 

**Project Number** 

(none)

Attention:

**JOHN LAMBDIN** 

American Environmental Network (NM), Inc. (ADHS License No. AZ0015), On received a request to analyze non-aq 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.

Kimberly D. McNeill **Project Manager** 

MR: mt

**Enclosure** 

H. Mitchell Rubenstein, Ph. D.

General Manager

CLIENT PROJECT # PROJECT NAME AEN	: EL PASO FIELD SERVICES : (none) : PHASE II DRILLING	AEN I.D.  DATE RECEIVED  REPORT DATE	: 806328 : 6/9/98 : 6/19/98
ID. # 01 02 03 04 05	CLIENT DESCRIPTION 980427 980428 980457 980458 980459	MATRIX NON-AQ NON-AQ NON-AQ NON-AQ NON-AQ	DATE COLLECTED 6/1/98 6/2/98 6/4/98 6/4/98 6/4/98

### GAS CHROMOTOGRAPHY RESULTS

TEST

: EPA 8015 MODIFIED (DIRECT INJECT)

CLIENT

: EL PASO FIELD SERVICES

AEN I.D.: 806328

PROJECT#

: (none)

PROJECT NAME

: PHASE II DRILLING

SAMPLE				DATE	DATE	DATE	DIL.
ID.#	CLIENT I.D.	_	MATRIX	SAMPLED	EXTRACTED	ANALYZED	FACTOR
01	980427		NON-AQ	6/1/98	6/15/98	6/17/98	1
02	980428		NON-AQ	6/2/98	6/15/98	6/18/98	1
03	980457		NON-AQ	6/4/98	6/15/98	6/18/98	1
PARAME	TER	DET. LIMIT	UN	IITS	01	02	03
FUEL HY	DROCARBONS, C6-C10	10	MG	S/KG	< 10	< 10	< 10
FUEL HY	DROCARBONS, C10-C22	5.0	MG	S/KG	< 5.0	< 5.0	< 5.0
FUEL HY	DROCARBONS, C22-C36	5.0	MG	s/KG	< 5.0	< 5.0	< 5.0
.CUL	ATED SUM:						
SURROG	SATE:						
O-TERPH	HENYL (%)				108	105	96
SURROG	SATE LIMITS	( 66 - 151 )					

**CHEMIST NOTES:** 

N/A

### GAS CHROMOTOGRAPHY RESULTS

TEST

: EPA 8015 MODIFIED (DIRECT INJECT)

CLIENT

: EL PASO FIELD SERVICES

AEN I.D.: 806328

PROJECT#

: (none)

PROJECT NAME

: PHASE II DRILLING

SAMPLE				DATE	DATE	DATE	DIL.
ID. #	CLIENT I.D.		MATRIX	SAMPLED	EXTRACTED	<b>ANALYZED</b>	FACTOR
04	980458		NON-AQ	6/4/98	6/15/98	6/18/98	1
05	980459		NON-AQ	6/4/98	6/15/98	6/18/98	1
PARAMET	ER	DET. LIMIT	UN	IITS	04	05	
FUEL HYD	PROCARBONS, C6-C10	10	MG	/KG	< 10	< 10	
FUEL HYD	PROCARBONS, C10-C22	5.0	MG	/KG	< 5.0	< 5.0	
FUEL HYD	ROCARBONS, C22-C36	5.0	MG	/KG	< 5.0	< 5.0	
CAI CULA	TED SUM:		-				
SURROGA	NTE:						
O-TERPHE	ENYL (%)				104	101	
SURROGA	TE LIMITS	( 66 - 151 )					

Confidential

**CHEMIST NOTES:** 

N/A

File: 806328.XLS; 8015 NA DE

American Environmental Network (NM), Inc. PLEASE FILL THIS FORM IN COMPLETELY. 젌 PROJECT MANAGER: John PROJ NAME: Phase 71-Drilling PROJ. NO.: SHIPPED VIA: FED EX P.O. NO. BILL TO: FAX: PHONE: COMPANY: ADDRESS: COMPANY: ADDRESS: .N Inc.: American Environmental Network (NM), Inc. • 2709-D Pan American Freeway, NE • Alb. 980428 980458 980457 980427 780459 Farmington, NM 770 w. PASO A DOVE 7599 - 214H 599-226 198/4/98 92 hg 0958 50: 6/1/98 NAVAJO Field LAmbdin CERTIFICATION REQUIRED: NM COMMENTS: FIXED FEE METHANOL PRESERVATION 11126 15/8 1305 Se Services 87401 ō. S □ 72hr 6 ☐1 WEEK SDWA Petroleum Hydrocarbons (418.1) TRPH (MOD.8015) Diesel/Direct Inject (M8015) Gas/Purge & Trap 8021 (BTEX)/8015 (Gasoline) □ OTHER .que, New Mexico 87107 • (505) 344-3777 • Fax (505) 344-4413 8021 (BTEX) ☐ MTBE ☐ TMB ☐ PCE 8021 (TCL) (NORMAL) 🗶 8021 (EDX) 8021 (HALO) 8021 (CUST) 504.1 EDB □ / DBCP □ Company: Company: EPFS Marlon Printed Name: Signature: 8260 (TCL) Volatile Organics 8260 (Full) Volatile Organics 8260 (CUST) Volatile Organics 8260 (Landfill) Volatile Organics Date Time: Pesticides /PCB (608/8081) Herbicides (615/8151) Base/Neutral/Acid Compounds GC/MS (625/8270) Polynuclear Aromatics (610/8310) General Chemistry: DISTRIBUTION: W Company: Signature Printed Name: Priority Pollutant Metals (13) Target Analyte List Metals (23) - AEN, Canary - Originato RCRA Metals (8) Date RCRA Metals by TCLP (Method 1311) Metals:

### **BTEX SOIL SAMPLE WORKSHEET**

File		:	980459	Date Printed :	6/9/98
Soil Mass	(g)	:	5.03	Multiplier (L/g) :	0.00099
Extraction vol.	(mL)	:	10	CAL FACTOR (Analytical):	200
<b>Shot Volume</b>	(uL)	:	50	CAL FACTOR (Report):	0.19881

		DILUTION	FACTOR:	1	Det. Limit
Benzene	(ug/L) : <0.5	Benzene	(mg/Kg):	<b>#VALUE!</b>	0.497
Toluene	(ug/L) : <0.5	Toluene	(mg/Kg):	<b>#VALUE!</b>	0.497
Ethylbenzene	(ug/L) : <0.5	Ethylbenzene	(mg/Kg):	<b>#VALUE!</b>	0.497
p & m-xylene	(ug/L) : <1.0	p & m-xylene	(mg/Kg):	<b>#VALUE!</b>	0.994
o-xylene	(ug/L) : <0.5	o-xylene	(mg/Kg):	#VALUE!	0.497
		Totai xylenes	(mg/Kg):	<b>#VALUE!</b>	1.491

Total BTEX (mg/Kg): #VALUE!

14 PROJECT		Notebook No  Continued From Page								
Sample	PAN WT - 51	ample wt	, Pan+Dry	Pan wT	% Solids					
1/8/98			_							
980427 980427	2.63-11.62=	8.70	1	8.23	91.5 % 92.0					
980428 980457 980458	2.64 - 10.93 2.64 - 11.56 - 2.65 - 11.16 =	8.92	10.45	7.81 8.18 8.043	94.2 91.7mh 94.5 94.3					
980459	1265-11.44=		10.74	8.09	92.0					
					Continued on Page					
		F	lead and Understoo	d By						
Signed		Date	Sig	ned	Date					