EL PASO FIELD SERVICES PRODUCTION PIT CLOSURE



Valencia Canyon Unit No. 3 Meter/Line ID – 89727

SITE DETAILS

Legals - Twn: 28N

Rng: 4W

Sec: 22

Unit: H

NMOCD Hazard Ranking: 20

Land Type: BLM

Operator: Amoco

Pit Closure Date: 07/08/94

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 July 8, 1994, to nine 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 459 ppm; laboratory analysis indicated a TPH concentration of 61.3 mg/kg. This site was reassessed on April 1, 1998, because the initial assessment incorrectly included washes as a surface water body.

On May 6, 1998, a Phase II drill borehole was conducted to a depth of 19 feet where auger refusal was encountered. A soil sample was collected for field headspace analysis and laboratory analysis for benzene, total BTEX, and TPH. Groundwater was not encountered in the test boring. The boring was backfilled with cement and bentonite grout. Headspace analysis indicated an organic vapor content of 2 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. In addition, the estimated depth to groundwater is greater than 100 feet.
- 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.
- Bedrock was encountered at nine feet below the ground surface; therefore, impact to groundwater is unlikely.

REVISED FIELD PIT SITE ASSESSMENT FORM

/ ,	Meter: 89727 Location: Valencia Congen Unit #3								
GENERAL	Operator #: Operator Name: P/L District:								
田田	Coordinates: Letter: H Section 22 Township: 28 Range: 4								
自	Or Latitude Longitude								
	Pit Type: Dehydrator Location Drip: Line Drip: Other:								
	Site Assessment Date: 4/1/98 Area: Run:								
	NMOCD Zone: Land Type: BLM 🔀 (1)								
	(From NMOCD State (2)								
	Maps) Inside \square (1) Fee \square (3)								
	Outside (2) 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)								
7	Wellhead Protection Area								
SITE ASSESSMEN.	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?								
SES	Horse Spring X (1) YES (20 points) (2) NO (0 points)								
AS	Horizontal Distance to Surface Water Body								
Ë,	Less Than 200 Ft (20 points) (1)								
SIT	200 Ft to 1000 Ft (10 points) (2)								
• 1	Greater Than 1000 Ft (0 points) (3)								
	Name of Surface Water Body								
	(Surface Water Body: Perennial Rivers, Streams, Creeks, Irrigation Canals, Ditches, Lakes, Ponds)								
	Distance to Nearest Ephemeral Stream (1) < 100' (Navajo Pits Only)							
	TOTAL HAZARD RANKING SCORE: 20 POINTS								
KS	Remarks: Site has been re-assessed, due to initial assessment including washes								
\ <u>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</u>	as a Surface Water Body. Site is ~ 500' From Horse Spring								
EN. RKS									
RE									

(assess) 12/16/97

FIELD PIT SITE ASSESSMENT FORM

GENERAL	Meter: 89721 Location: VALENCIA CANYON UNIT #3 Operator #: 0203 Operator Name: Anoco P/L District: Blanting Coordinates: Letter: Section 22 Township: 28 Range: 4 Or Latitude Longitude Pit Type: Dehydrator Location Drip: X Line Drip: Other: Site Assessment Date: 5-15-94 Area: 10 Run: 62
ASSESSMENT	NMOCD Zone: (From NMOCD Maps) Inside Outside Outside Depth to Groundwater Less Than 50 Feet (20 points) Forest (1) (1) Fee (3) Indian Forest (1) State (2) Indian Forest (3) Vellhead Protection Area: Hopse Speing 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)
RKS	Remarks: 3 Pits ON LOCATION, ONE IS TO BE CLOSED
REMARKS	•

FIE. PIT REMEDIATION/CLOSU. _ FORM

GENERAL	Meter: \$\frac{29.72.7}{29.72.7} Location: \(\begin{align*} \text{ULENCIA CANYON UNIT \$\frac{\pi}{3}\$} \] Coordinates: Letter: \$\frac{\pi}{2}\$ Section \$\frac{22}{22}\$ Township: \$\frac{28}{28}\$ Range: \$\frac{\pi}{2}\$ Or Latitude Longitude Date Started: \$\frac{7-8-94}{2}\$ Area: \$\frac{10}{2}\$ Run: \$\frac{62}{2}\$
FIELD OBSERVATIONS	Sample Number(s): MK 10 4 Sample Depth: 9' Feet Final PID Reading 459 PID Reading Depth 9' Feet Yes No Groundwater Encountered (1) (2) Approximate Depth Feet
CLOSURE	Remediation Method: Excavation
REMARKS	Remarks: EPNG lines narked Brownish fray strong Hiprocurbon odor Hit Dand Stone 9 + 700-94 Signature of Specialist: Mogan Xillian



FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT - Soil

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	mk 104	945420
MTR CODE SITE NAME:	89727	N/A
SAMPLE DATE TIME (Hrs):	7-8-94	1009
SAMPLED BY:		N/A
DATE OF TPH EXT. ANAL.:	7-12-94	7/12/94
DATE OF BTEX EXT. ANAL.:	NIA	NIA
TYPE DESCRIPTION:	VG	Brown Sand & Chang

REMARKS:

RESULTS

PARAMETER	RESULT	UNITS QUALIFIERS				
FAILANTETEN			DF	Q	M(g)	V(ml)
BENZENE		MG/KG				
TOLUENE		MG/KG				
ETHYL BENZENE		MG/KG				
TOTAL XYLENES		MG/KG				
TOTAL BTEX		MG/KG				
TPH (418.1)	61.3	MG/KG			2.04	28
HEADSPACE PID	459	PPM				
PERCENT SOLIDS	87.9	%				
	- TPH is by EPA Method	118.1 and BTEX is by EPA M	lethod 8020			

The Jurrogate Recovery was at	NA	All QA/QC was acceptable.
Narrative:		



CHAIN OF CUSTONY RECORD

L	PROJECT NUMBER		PROJECT NAME	AME Sure F	PROJECT NAME PIT Closure Project # 24324					REQUESTED ANALYSIS	YSIS	CONT	CONTINACT LABORATORY P. O. NUMBER	UMBER	П
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4	919819	7-8-4	\$.10	50,1	MK 103		-	VE X			5	92 50.	18:00m	No HYD. wantow od D.	i
9	9-8-5 05 015 pg	1-8-8ª	10:01	50;1	1K 104	-	7	V.C. A	_		0,	9.3 Bin	Sec. 15: 6: 25:	1 36 m My Draw day	6
46	9/5421	7-8 44 11.21		50.7	MK 105		,	VG 4			6	94 8.	Bien 51 60. 5	Street 1140 000006.	不
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	REQUESTED TURNAROUND TIME:	TURNAROUND O RUSH	IND TIME:		SAMF	SAMPLE RECEIPT REMARKS	EMARKS				RESULTS	RESULTS & INVOICES TO	ro: FIELD SERVIC	FIELD SERVICES LABORATORY	
	CARRIER CO.												EL PASO NAT P. O. BOX 499	EL PASO NATURAL GAS COMPANY P. O. BOX 4990	
	BILL NO.:				СНАВ	CHARGE CODE					505-599-2144		FARMINGTON	1, NEW MEXICO 87499	
4						***************************************			-					100-200-200-	7

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

FM-08-0565A (Rev. 01 0.0

RECORD OF SUBSURFACE EXPLORATION

PHILIP SERVICES CORP.

4000 Monroe Road Farmington, New Mexico 87401 (505) 326-2262 FAX (505) 326-2388 Borehole # BH-1
Well # A of /

Project Number	19007	Phase	1001.77
Project Name	EPFS WEL	LHEAD PIT	ΓS

Project Location Valencia Canyon Unit# 3

Elevation

Borehole Location LTR: S: 2 2 T: 2 8 R: 4

GWL Depth
Drilled By K. PADILLA

Well Logged By
Date Started
Date Completed

LTR: S: 2 2 T: 2 8 R: 4

K. PADILLA

C. CHANCE

5/6/98

Drilling Method 4 1/4 ID HSA
Air Monitoring Method PID

Depth (Feet)	Sample Number	Sample Interval	Sample Type & Recovery (inches)	Sample Description Classification System: USCS	USCS Symbol	Depth Lithology Change (feet)		Monitor nits: PP BH	-	Drilling Conditions & Blow Counts
0	ı	s-7	19	Br CLAY, v. stiff, high plays	ļ		0	0	0/0	-1306 69
10	۶	10-12	4	Br CLAY, v. stiff, high plassing dry Relish br silty CLAY, hard, nonplastic, dry			0	0	24	-1312 h, Hard drlng Vhard ~14' -1330 500c/4"
15	3	(3- 5.5	3	Br SANDSTONE, uf sand -x+ln, mod - well cemented, dry, hard			0	1		
		18.5-19		M TOB 191	·		ى	w		-1347 h- -Rafusal 18-5'
										Refusal in v hard well comental (xHn) sandstone
25 		٠		·						•
30		,								
35										
40										

Comments:	Site is <1000' From Horse	Secina Tankis en	Former Pir Will Dill Do	wngradient
	of pix. Baced on pit dings	ions Barina is an a	ad a post pit. Pit was backfille	4
	BH grouted to surfact	Geologist Signature	Con Clay	<u></u>
	•			



FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT

SAMPLE IDENTIFICATION

Field ID Lab ID SAMPLE NUMBER: **CMC385** 980353 MTR CODE | SITE NAME: 89727 Valencia Canyon Unit #3 SAMPLE DATE | TIME (Hrs): 5/6/98 1437 PROJECT: Phase II Drilling DATE OF TPH EXT. | ANAL.: 5/7/98 DATE OF BTEX EXT. | ANAL.: 5/7/98 TYPE | DESCRIPTION: VG SOIL

Field Remarks: 18.5-19'

Don Fall

RESULTS

PARAMETER	RESULT	UNITS		QUALIFIERS					
	<u> </u>		DF	a	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 (MOD.8015)	<20	MG/KG							
HEADSPACE PID	2	PPM							
PERCENT SOLIDS	94.5	%							

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

The	Surrogate Recovery was at	103	_% for this sample	All QA/QC was acceptable.	
V ₁	Tive:				
					

DF = Dilution Factor Used

Approved By:

Date: 6/2/40

Natural Gas Company

Phase I Drilling

EHAIN OF CUSTODY RECORD 6.5.98 Chur.

SAMPLERO (Signature) PROJECT NUMBER ROUTINE 9803534 # 24324 CARRIER CO. REQUESTED TURNAROUND TIME: BILL NO: LABID (HSUR 5/44/H37 |SOI/ | QMC 385 PROJECT NAME
Pit Closure Project DATE TIME MATRIX DATE 5/4/18 FIELD ID SAMPLE RECEIPT REMARKS CHARGE CODE RECEIVED BY TOTAL NUMBER OF CONTAINERS 5 TPH EPA 418.1 BTEX EPA 8020 RELINQUIS REQUESTED ANALYSIS LAB PID Field Pub رو RESULTS & INVOICES D 505-599-2144 SEQUENCE CONTRACT LABORATORY P. O. NUMBER 5/7/18 Dalp FIELD SERVICES LABORATORY EL PASO NATURAL GAS COMPANY P. O. BOX 4990 FARMINGTON, NEW MEXICO 87499 DATE/TIME 850 RECEIVED BY: (Signature) RECEIVED OF LABORATORY BY: (Signature) Unit #3 REMARKS FAX: 599-2261 89727 Mc.#

BTEX SOIL SAMPLE WORKSHEET

Fil	le :	980353	Date Printed : 5/8/98
Soil Mas	s (g):	5.07	Multiplier (L/g) : 0.00099
Extraction vo	ol. (mL) :	10	CAL FACTOR (Analytical): 200
Shot Volum	e (uL) :	50	CAL FACTOR (Report): 0.19724
			DILUTION FACTOR: 1 Det. Limit
Benzene	(ug/L) :	<0.5	Benzene (mg/Kg): #VALUE! 0.493
Toluene	(ug/L) :	<0.5	Toluene (mg/Kg): #VALUE! 0.493
Ethylbenzene	(ug/L) :	<0.5	Ethylbenzene (mg/Kg): #VALUE! 0.493
p & m-xylene	(ug/L) :	<1.0	p & m-xylene (mg/Kg): #VALUE! 0.986
o-xylene	(ug/L) :	<0.5	o-xylene (mg/Kg): #VALUE! 0.493
-	, - ,		Total xylenes (mg/Kg): #VALUE! 1.479
			Total BTEX (mg/Kg): #VALUE!

PROJECT.	_
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PROJECT				Continued From Fag	
	PAN WT - Smp)	UT PA	itory.	Dry WT.	% Solids
3/26/58 980253 980253 269 980254	261 - 11.97 = 265 - 11.94 = 264 - 12.33 =	4.29 19 9.69 -	.05 0.99 7.69	8.44 8.34 8.72	90.2% 89.8 90.0
4/20/98 980324 980324 Jup 980325	2.63 - 10.92 = 2.61 - 9.38 = 2.64 - 11.04 =	8.29 I 6.77 S	7.06	7.87 6.45 7.87	94.9% 95.3% 93.7
5/7/98 980330 980331 30333 980334 980335 980337 980353 980353	2.65-11.00 = 2.65-11.50 = 2.63-11.88 = 2.62-11.20 = 2.64-11.76 = 2.63-11.46 = 2.63-11.99 = 2.64-10.51 = 2.63-11.14 =	8.85 9.25 8.58 9.12 8.93 8.46 7.87 7.37	0.68 0.65 11.08 0.39 10.65 11.02 0.57 0.61 0.36	7.43 8.45 7.77 8.01 8.39 7.94 7.44 6.98 7.73	89.0 % 90.H 91.4 90.6 87.8 95.0% 93.9 94.5 94.7 90.8

Continued on Page

Read and Understood By

Signed

Sinned

American Environmental Network, Inc.

AFN I.D.

805329

May 21, 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), 5/8/98 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

General Manager

American Environmental Network, Inc.

CLIENT	: EL PASO FIELD SERVICES	AEN I.D.	: 805329 : 5/8/98 : 5/21/98	
PROJECT#	: (none)	DATE RECEIVED		
PROJECT NAME	: PHASE II DRILLING	REPORT DATE		
AEN			DATE	
ID. #	CLIENT DESCRIPTION	MATRIX	COLLECTED	
01	980330	NON-AQ	4/29/98	
02	980331	NON-AQ	4/29/98	
03	980333	NON-AQ	4/30/98	
04	980334	NON-AQ	4/30/98	
0 5	980335	NON-AQ	5/1/98	
05 06	980336	NON-AQ	5/4/98	
0 7	980337	NON-AQ	5/4/98	
=	980353	NON-AQ	5/6/98	
08 09	980354	NON-AQ	5/5/98	

American Environmental Network, Inc.

GAS CHROMOTOGRAPHY RESULTS

TEST

: EPA 8015 MODIFIED (DIRECT INJECT)

CLIENT

: EL PASO FIELD SERVICES

AEN I.D.: 805329

PROJECT#

: (none)

PROJECT NAME

: PHASE II DRILLING

PROJECT	NAME	.					
SAMPLE				DATE	DATE	DATE	DIL.
	CLIENT I.D.		MATRIX	SAMPLED	EXTRACTED	ANALYZED	FACTOR
ID. #	980337		NON-AQ	5/4/98	5/12/98	5/14/98	1
	980353		NON-AQ	5/6/98	5/12/98	5/14/98	1
08	980354		NON-AQ	5/5/98	5/12/98	5/19/98	20
09		DET. LIMIT		IITS	07	08	09
PARAMET	ROCARBONS, C6-C10	10		KG	< 10	< 10	13000
	ROCARBONS, C10-C22	5.0		KG	17	< 5.0	600
		5.0		S/KG	< 5.0	< 5.0	< 100
	ROCARBONS, C22-C36 TED SUM:	3.0	W		17.0		13600
SURROGA O-TERPHE SURROGA	ENYL (%)	(66 - 151)			142	130	N/A *

CHEMIST NOTES:

^{* -} DUE TO NECESSARY SAMPLE DILUTION, SURROGATE RECOVERY NOT OBTAINABLE

PLEASE FILL THIS FORM IN COMPLETELY. PROJECT MANAGER: P.O. NO.: PROJ. NO.: SHIPPED VIA: PROJ. NAME: PLAGE IL BILL TO: PHONE: FAX COMPANY ADDRESS: COMPANY: ADDRESS: AEN Inc.: American Environmental Network (NM), Inc. • 2709-D Pan American Freeway, NE • Abb. 980336 980334 980331 980335 980333 980337 980353 98035 El PASO 770 Armington, NM 4 boys 400 599-22-6 3 1/30/98 Field Services -2144 198 LAmbdin METHANOL PRESERVATION CERTIFICATION REQUIRED: (RUSH) 24hr COMMENTS: FIXED FEE NAVAIS io So 1337 1540 1437 1203 1602 1322 □48hr のどの □ 72hr □ **X** ☐1 WEEK Petroleum Hydrocarbons (418.1) TRPH SDWA (MOD.8015) Diesel/Direct/Inject OTHER ue, New Mexico 87107 (M8015) Gas/Purge & Trap Gasoline/BTEX & MTBE (M8015/8020) BTXE/MTBE (8020) BTEX & Chlorinated Aromatics (602/8020) (NORMAL) BTEX/MTBE/EDC & EDB (8020/8010/Short) Chlorinated Hydrocarbons (601/8010) EDB [] / DBCP [] Company: Signature: 504 Printed Name: 下り下ろ Polynuclear Aromatics (610/8310) Volatile Organics (624/8240) GC/MS Volatile Organics (8260) GC/MS 0000 Date: Time: Pesticides/PCB (608/8080) Herbicides (615/8150) 1240 DISTRIBUTION: White, Canal Base/Neutral/Acid Compounds GC/MS (625/B270) **General Chemistry:** rinted Name: Priority Pollutant Metals (13) Target Analyte List Metals (23) .N Pink - ORIGINATOR RCRA Metals (8) Dale: Time RCRA Metals by TCLP (Method 1311) Metals

CHAIN OF CUSTODY

Albuquerque · Phoenix · Pensacola · Portland · Pleasant Hills · Columbia

American Environmental Network (NM), Inc.