District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Risk Defined Plume Submit 1 copy to appropriate District Office and 1 copy to the Santa Fe Office

(Revised 3/9/94)

PIT REMEDIATION AND CLOSURE REPORT 30-045-20966

Operator: Amoco by EPFS Telephone Telephone	_							
Address:								
Facility Or Annie L. Elliott B#7, Meter 87477 Well Name								
Location: Unit or Qtr/Qtr Sec L Sec 10 T 29 R 9 County San Juan	Location: Unit or Qtr/Qtr Sec L Sec 10 T 29 R 9 County San Juan							
Pit Type: Separator Other Drip								
Land Type: BLM, State, FeeOther								
Pit Location: Pit dimensions: length 15', width 14', depth 2' (Attach diagram)								
Reference: wellhead X, other								
Footage from reference:144'								
Direction from reference: <u>145</u> Degrees <u>X</u> East North								
ofWest South								
Depth To Ground Water (Vertical distance from 50 feet to 99 feet (10 points) contaminants to seasonal high water elevation of ground water.) Less than 50 feet (20 points) Greater than 100 feet (0 points) The point of the poi	0_							
(Vertical distance from 50 feet to 99 feet (10 points) contaminants to seasonal Greater than 100 feet (0 points) 1 high water elevation of								
(Vertical distance from 50 feet to 99 feet (10 points) contaminants to seasonal Greater than 100 feet (0 points) 1 high water elevation of ground water.) Wellhead Protection Area: Yes (20 points) (Less than 200 feet from a private domestic water source, or; less than	<u>0</u>							

Date Remediation Started:	06/07/94 Date completed: 06/07/94
	vation Approx. cubic yards
(Check all appropriate sections.) Land	Ifarmed Insitu Bioremediation
Othe	r Backfill pit without excavation
Remediation Location: Onsi (i.e. landfarmed onsite, name and location of offsite facility)	ite N/A Offsite N/A
General Description of Reme	dial Action: Soil was black, strong hydrocarbon odor smell. Change to gray at sample
depth. EPNG lines were ma	rked.
· .	
Ground Water Encountered:	NoX Yes Depth
Final Pit: Closure Sampling: (if multiple samples,	Sample location _ Four walls and center of pit composite
attach sample results and diagram of sample locations and depths)	Sample depth_12'
locations and depths)	Sample Date Sample time14:05
	Sample Results
	Benzene(ppm) Not reported.
	Total BTEX(ppm) Not reported.
	Field headspace(ppm) _ 172
	TPH3590
Ground Water Sample:	Yes NoX (If yes, attach sample results)
I hereby certify that the infor	mation above is true and complete to the best of my knowledge and belief.
Date 1/8/03	\bigcap
Signature T.	Printed Name Scott T. Pope and Title Senior Fall Scientist



Annie L. Elliott B #7 Meter/Line ID 87477

SITE DETAILS

Legals - Twn: 29N

Rng: 9W

Sec: 10

Unit: L

NMOCD Hazard Ranking: 10

Land Type: BLM

Operator: Amoco Production Company

Pit Closure Date: 6/7/94

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 to 12 feet (ft) below ground surface (bgs) and a soil sample was collected for field headspace and laboratory analysis for TPH. Groundwater was not encountered in the test pit. Headspace analysis indicated an organic vapor content of 172 ppm and a TPH concentration of 3,590 mg/kg. The TPH measurement exceeded recommended remediation levels for the Hazard Ranking Score of 10.

No soil was disposed of offsite. The pit was backfilled with site soil, topped with clean soil from the surrounding berms, and graded in a manner to direct surface runoff away from the pit area.

A Phase II boring was completed to 47 ft bgs. No groundwater was encountered in the soil boring. One laboratory sample was collected at 45-47 ft bgs. Headspace analysis indicated an organic vapor content of 8 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. The benzene, total BTEX and TPH concentrations were below recommended remediation levels for the Hazard Ranking Score.

No Phase III activities were conducted.

El Paso Field Services requests closure of the above mentioned pit location for the following reasons:

- The primary source, discharge to the pit, has been removed for over eight years.
- The test pit was backfilled and the former pit area graded to direct surface runoff away from the former pit.
- The clean soil from the berms placed on top of the excavation would limit the potential for direct contact with hazardous constituents by livestock or the public; i.e., current direct contact exposure pathways are unlikely to be completed.
- There are no water supply wells or other sources of fresh water extraction within 1,000 feet of the
- Groundwater was not encountered in the soil boring at 47 ft bgs; local geologic features indicate the depth to groundwater is greater than 50 ft bgs.
- Benzene and total BTEX concentrations at the base of the test pit (12 feet bgs) were below recommended remediation levels for the Hazard Ranking Score.

REVISEDFIELD PIT SITE ASSESSMENT FORM

T	Meter: 87477 Location: Annie L. Elliott 3#7							
GENERAL	Operator #: Operator Name: P/L District: Coordinates: Letter: L Section 10 Township: 29 Range: 9							
B	Or Latitude Longitude Pit Type: Dehydrator Location Drip: Line Drip: Other: Site Assessment Date: 2/26/98 Area: Run:							
	NMOCD Zone: (From NMOCD Maps) Land Type: BLM (1) State (2) Fee (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)							
	Wellhead Protection Area							
ASSESSMENT	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	(1) YES (20 points) X (2) NO (0 points)							
AS	Horizontal Distance to Surface Water Body							
SITE	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							
	(Surface Water Body: Perennial Rivers, Streams, Creeks, Irrigation Canals, Ditches, Lakes, Ponds)							
	Distance to Nearest Ephemeral Stream (1) < 100' (Navajo Pits Only)							
1	(2) > 100'							
	TOTAL HAZARD RANKING SCORE: POINTS							
REMARKS	Remarks: Site has been re-assessed, due to initial assessment including washes as a Surface Water Body. Site is < 100 vertical Feet From center of Manzaneres Canyon.							

assess) 12/16/97



FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT - Soil

SAMPLE IDENTIFICATION

·	Field ID	Lab ID
SAMPLE NUMBER:	MK 18	945392
MTR CODE SITE NAME:	87477	N/A
SAMPLE DATE TIME (Hrs):	6-7-94	1405
SAMPLED BY:		N/A
DATE OF TPH EXT. ANAL.:	(0/10)94	6/10/94
DATE OF BTEX EXT. ANAL.:	NIK	12/4
TYPE DESCRIPTION:	V G	Grey time Sand

HEIMAHKS:	 	 	

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS				
				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)	3590	MG/KG			2.08	28	
HEADSPACE PID	172	PPM					
PERCENT SOLIDS	92.7	%					

	1 7 7 7				
PERCENT SOLIDS	92.7	%	eigenne. Laifendelige	A succession of the second	
	- TPH is by EPA Method	418.1 and BTEX is by EPA Me	ethod 8020 —		
rogate Recovery was at	NA	_% for this sample	All QA/QC	was accepta	ble.
alletive:					
					

)F = Dilution Factor Used Id. Larde

6/14/44 Date:

FIELD T REMEDIATION/CLOSUR FORM

GENERAL	Meter: 87477 Location: ANNIE L. Elliot B#7 Coordinates: Letter: L. Section 10 Township: 29 Range: 9 Or Latitude Longitude Date Started: 6-7-94 Area: 10 Run: 53
FIELD OBSERVATIONS	Sample Number(s): MK/8 Sample Depth: Feet Final PID Reading PID Reading Depth Feet Yes No Groundwater Encountered □ (1) ☑ (2) Approximate Depth Feet
CLOSIIRE	Remediation Method: Excavation
DEWADING	Remarks: Soil USS bicck strong HY. Drocarbon smell change to gray at Sample Bepth FPNG lines were marked
	Signature of Specialist: Awagan Killion



FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	HAB16	980610
MTR CODE SITE NAME:	87477	Annie L Elliott B #7
SAMPLE DATE TIME (Hrs):	9/2/98	0945
PROJECT:	Phase	e II Drilling
DATE OF TPH EXT. ANAL.:	9/15/98	9/16/98
DATE OF BTEX EXT. ANAL.:	9/14/98	9/14/98
TYPE DESCRIPTION:	VG	SOIL

Field Remarks: 45-47'

RESULTS

	RESULT	UNITS		OUALIFI		
PARAMETER			THE DELI			
BENZENE	<0.5	MG/KG	1			
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	8	PPM				
PERCENT SOLIDS	97.4	%				

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

			•	
The Surrogate Recovery was at	95.0	% for this sample	All QA/QC was acceptable.	
rative:				
DF = Dilution Factor Used	D			
Approved By:	Laboles		Date: /8/, /98	





GAS CHROMOTOGRAPHY RESULTS

TEST

: EPA 8015 MODIFIED (DIRECT INJECT)

CLIENT

: EL PASO FIELD SERVICES

PROJECT#

: (none)

PROJECT NAME

: PHASE II DRILLING

	INOSECI	I ALVIAIT	. I TIMOL II DIN	LLII10				
	SAMPLE				DATE	DATE	DATE	DIL.
	ID. #	CLIENT I.D.		MATRIX	SAMPLED	EXTRACTED	ANALYZED	FACTOR
	01	980610		NON-AQ	9/2/98	9/15/98	9/16/98	1
	02	980611	•	NON-AQ	9/2/98	9/15/98	9/16/98	1
	03	980612		NON-AQ	9/2/98	9/15/98	9/16/98	1
	PARAMET	ER	DET. LIMIT	UN	NITS	01	02	03
	FUEL HYD	ROCARBONS, C6-C10	10	MG	S/KG	< 10	390	< 10
	FUEL HYD	ROCARBONS, C10-C22	5.0	MG	S/KG	< 5.0	93	< 5.0
	FUEL HYD	ROCARBONS, C22-C36	5.0	MG	S/KG	< 5.0	< 5.0	< 5.0
		TED SUM:		4			483	
1	SURROGA	TE:						
	O-TERPHE	ENYL (%)				94	91	92
	SURROGA	TE LIMITS	(66 - 151)					





GAS CHROMOTOGRAPHY RESULTS

TEST

: EPA 8015 MODIFIED (DIRECT INJECT)

CLIENT

: EL PASO FIELD SERVICES

PROJECT#

: (none)

PROJECT NAME

: PHASE II DRILLING

PROJECT	INAME	, FRASE II DRI	LLING					_
SAMPLE		•	9	DATE	DATE	DATE	DIL.	
ID.#	CLIENT I.D.		MATRIX	SAMPLED	EXTRACTED	ANALYZED	FACTOR	
04	980613		NON-AQ	9/3/98	9/15/98	9/16/98	1	
05	980614		NON-AQ	9/3/98	9/15/98	9/16/98	1	
. 06	980615		NON-AQ	9/3/98	9/15/98	9/16/98	1	
PARAME	TER	DET. LIMIT	UN	IITS	04	05	06	
FUEL HY	DROCARBONS, C6-C10	10	MG	/KG	< 10	28	57	
FUEL HY	DROCARBONS, C10-C22	5.0	MG	KG	< 5.0	< 5.0	5.3	
FUEL HY	DROCARBONS, C22-C36	5.0	MG	KG	< 5.0	< 5.0	< 5.0	
LCULA	ATED SUM:					28	62.3	
	ENYL (%)	(00, 454)			90	90	91	
SURRUG	ATE LIMITS	(66 - 151)					ANALYZED FACTOR 9/16/98 1 9/16/98 1 9/16/98 1 05 06 28 57 5.0 5.3 5.0 < 5.0 28 62.3	





GAS CHROMOTOGRAPHY RESULTS

TEST

: EPA 8015 MODIFIED (DIRECT INJECT)

CLIENT

: EL PASO FIELD SERVICES

PINNACLE I.D.: 809038

PROJECT#

: (none)

PROJECT NAME

: PHASE II DRILLING

FINOSEC		. I III TOLE II DITT	<u> LLIITO</u>				
SAMPLE				DATE	DATE	DATE	DIL.
ID.#	CLIENT I.D.		MATRIX	SAMPLED	EXTRACTED	ANALYZED	FACTOR
07	980616		NON-AQ	9/3/98	9/15/98	9/16/98	1
08	980624		NON-AQ	9/4/98	9/15/98	9/16/98	1
09	980625		NON-AQ	9/8/98	9/15/98	9/17/98	1
PARAME	TER	DET. LIMIT	1U	NITS	07	08	09
FUEL HY	DROCARBONS, C6-C10	10	MC	S/KG	< 10	< 10	< 10
	DROCARBONS, C10-C22	5.0	MC	3/KG	< 5.0	< 5.0	< 5.0
	DROCARBONS, C22-C36	5.0	MC	S/KG	< 5.0	< 5.0	< 5.0
	ATED SUM:						
	SATE: HENYL (%) SATE LIMITS	(66 - 151)	· ·		88	87	91





GAS CHROMOTOGRAPHY RESULTS

TEST

: EPA 8015 MODIFIED (DIRECT INJECT)

CLIENT

: EL PASO FIELD SERVICES

PROJECT#

: (none)

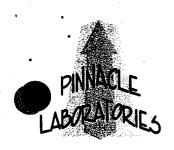
PROJECT NAME

: PHASE II DRILLING

FIGURE	I INTIVIL	THASE II DIN	LLIIVO					
SAMPLE			1.1	DATE	DATE	DATE	DIL.	
ID.#	CLIENT I.D.		MATRIX	SAMPLED	EXTRACTED	ANALYZED	FACTOR	
10	980626		NON-AQ	9/4/98	9/15/98	9/17/98	10	
11	980627		NON-AQ	9/8/98	9/15/98	9/17/98	1	
12	980635		NON-AQ	9/9/98	9/15/98	9/17/98	1	
PARAME	TER	DET. LIMIT	UI	NITS	10	11	12	
FUEL HY	DROCARBONS, C6-C10	10	MC	S/KG	2400	68	< 10	
FUEL HY	DROCARBONS, C10-C22	5.0	MO	S/KG	< 50	< 5.0	< 5.0	
FUEL HY	DROCARBONS, C22-C36	5.0	MG	S/KG	< 50	< 5.0	< 5.0	
LCUL	ATED SUM:			,	2400	68		
	GATE: HENYL (%) GATE LIMITS	(66 - 151)			119	87	92	

CHEMIST NOTES:





GAS CHROMOTOGRAPHY RESULTS

TEST

: EPA 8015 MODIFIED (DIRECT INJECT)

CLIENT

: EL PASO FIELD SERVICES

PROJECT#

: (none)

PROJECT NAME

: PHASE II DRILLING

PROJEC	INAME	: PHASE II DRI	LLING				
SAMPLE				DATE	DATE	DATE	DIL.
ID. #	CLIENT I.D.		MATRIX	SAMPLED	EXTRACTED	ANALYZED	FACTOR
13	980636	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	NON-AQ	9/9/98	9/15/98	9/17/98	10
14	980637		NON-AQ	9/9/98	9/15/98	9/17/98	10
15	980638	•	NON-AQ	9/10/98	9/15/98	9/17/98	1
PARAME	ETER	DET. LIMIT	U)	VITS	13	14	15
FUEL H	YDROCARBONS, C6-C10	10	MG	G/KG	10000	170	< 10
	YDROCARBONS, C10-C22	5.0	MG	S/KG	1200	1600	< 5.0
	YDROCARBONS, C22-C36	5.0	MO	S/KG	< 50	380	< 5.0
LCUI	LATED SUM:				11200	2150	
SURROGATE:							
O-TERP	HENYL (%)				122	131	87
SURRO	GATE LIMITS	(66 - 151)					





GAS CHROMOTOGRAPHY RESULTS

TEST

: EPA 8015 MODIFIED (DIRECT INJECT)

CLIENT

: EL PASO FIELD SERVICES

PROJECT#

: (none)

PROJECT NAME

: PHASE II DRILLING

LIVOSECI	1 14//14/6-	. ! ! # 10 E II D I II	<u> </u>				
SAMPLE				DATE	DATE	DATE	DIL.
ID. #	CLIENT I.D.		MATRIX	SAMPLED	EXTRACTED	ANALYZED	FACTOR
16	980639		NON-AQ	9/10/98	9/15/98	9/17/98	1
17	980640		NON-AQ	9/10/98	9/15/98	9/17/98	1
PARAME	TER	DET. LIMIT	UN	IITS	. 16	17	
FUEL HY	DROCARBONS, C6-C10	10	MG	S/KG	< 10	< 10	
	DROCARBONS, C10-C22	5.0	MG	S/KG	< 5.0	< 5.0	
	DROCARBONS, C22-C36	5.0	MG	S/KG	< 5.0	< 5.0	
	ATED SUM:						. '
ROG	ATE:						
TERPH	IENYL (%)				88	87	
SURROG	ATE LIMITS	(66 - 151)					

RECORD OF SUBSURFACE EXPLORATION

PHILIP SERVICES CORP.

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

Borehole #	BH-
Well#	NA
Page 1	of Z

Project Number 19643 Phase 1001.77
Project Name EPFS PITS >10

Project Location ANNIE L Elliot B#7 87477

Elevation

Borehole Location LTR: L S: 10 T: 29 R: 9

GWL Depth
Drilled By
K. PADILLA

Well Logged By
Date Started
Date Completed

Well Logged By
Date Completed

WA

K. PADILLA

H. BRADBURY

9/2/98

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

Ī	Depth (Feet)	Sample Number	Sample Interval	Sample Type & Recovery (inches)	Sample Description Classification System: USCS	USCS Symbol	Depth Lithology Change (feet)		Monitor Inits: PF BH	-	Drilling Conditions & Blow Counts
	0										BZ=Breathing Zone BH=Borehole S/HS=Sample/Headspace
	10				EXCAVATION SAMPLE COLLECTED AT 12'						
	15	,	15-17	24	DK BR Silty SAND, fine saud 1005E, dry	sm		0	213	459 745	0858 hrs 💍
•	20 	2	20-22	24	LTBR SAND. FINE SAND Hr. MEd. 1005E, dry	sw		0	31	42 <u>3</u> 653	404 hes
	25	3	25-27	24	LT BR SAND, MED SAND 1005E, DRY	SW		ರಿ	366	506 608	.0911 hRS
	30	4	30-32	24	LTBR SAND, MED SAND HR CORRE, 1005E, dry	5W		٥	134	573 573	0918 hrs
	35	5	3 5-37	18	LT BR Silty SAND, FINE SAND, LOOSE, DRY	sm		1	<i>ર</i> ડ૧	552 280	0926hr3
	E_40	6	40-42	18"	LTBR SAND, MED SAND, 100SE, DRY	SW		٥	34	56 54	089hes

· ·		and the second s	
		•	•
bmments:	<u>·</u>		

RECORD OF SUBSURFACE EXPLORATION

PHILIP SERVICES CORP.

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

3orehole #	вн- /
∕⁄eil#	NA
Page 2	of Z

Project Number <u>19643</u> Phase <u>1001.77</u>

Project Name EPFS PITS >10

Project Location ANNIE L Ellict 8#7 8747;

Elevation
Borehole Location LTR: L S: +0 T: 29 R: 1

GWL Depth
Drilled By
Well Logged By
Date Started
Date Completed

K. PADILLA
H. BRADBURY

9/2/98

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)	l .		-	Drilling Conditions & Blow Counts
F °										BZ=Breathing Zone BH=Borehole S/HS=Sample/Headspace
4 5	7	45-47	12"	LT BR Silty SAND, FINE SAND, LOOSE, LRY	sm		0	26	64 8	0945 nrs
_ 10				TOB 47						
15					:					
- - -						·				
20 					,					
25										
30										
35				•		, .				
40										
	(Feet) 0	(Feet) Number	(Feet) Number Interval	Depth (Feet) Sample Interval Recovery (inches)	Depth (Feet) Sample (Feet) Number Interval Recovery (Inches)	Depth (Feet) Sample Sample Type & Recovery Classification System: USCS USCS Symbol Type & Recovery Classification System: USCS Symbol Type & Recovery Type	Depth (reet) Sample Sample Number Interval Recovery Classification System: USCS USCS Symbol Charge (reet) - 45 7 45-47 12" LT BR Silty SAND, fine SAND, 1005E, LRy - 10 - 20 - 35 - 35 - 35 - 35 - 35 - 35 - 35 - 3	Depth Sample (Feet) Number treeval Recovery Classification System: USCS USCS Symbol Change (Reet) B2 10	Depth Sample Type & Sample Sample Description Classification System: USCS USCS Lithology Change Change	Depth (free) Sample (free) Sample Recovery (inches) Sample Description Classification System: USCS Uthology Ar Monitoring Uscs Symbol Change (free) B1 SAIS - 45 7 45-47 12" LT BR Silty SAND, Fine SM - 10 - 15 - 20 - 35 - 36 - 36

mments:

HABIL 45-47 SENT to lab for TPH, BTEX GW

Geologist Signature

Holly Brackers