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
220 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 period

Submit 1 copy to appropriate District Office and 1 copy to the Santa Fe Office

(Revised 3/9/94)

PIT	REMEDIATION AND	CLOSURE REPORT

	30-045-09368
Operator: Amoco by EPFS T	elephone:
Address:	
Facility Or: Lindsey #1A, Meter 71261 Well Name Location: Unit or Qtr/Qtr Sec_ Sec_	19 T 30 R 8 County San Juan
Pit Type: Separator Dehydrator	X Other
Land Type: BLM X, State , Fe	ee Other
	other
Footage from reference:58'	
Direction from reference: _294	
Depth To Ground Water (Vertical distance from contaminants to seasonal high water elevation of ground water.)	of
Depth To Ground Water (Vertical distance from contaminants to seasonal high water elevation of	Less than 50 feet (20 points) 50 feet to 99 feet (10 points)
Depth To Ground Water (Vertical distance from contaminants to seasonal high water elevation of ground water.) Wellhead Protection Area: (Less than 200 feet from a private domestic water source, or; less than	Less than 50 feet (20 points) 50 feet to 99 feet (10 points) Greater than 100 feet (0 points) Yes (20 points)

Date Remediation Started:	05/11/94 Date completed: 05/12/94
Remediation Method: Ex	cavation X Approx. cubic yards 90
Check all appropriate ections.) La	ndfarmed Insitu Bioremediation
,	
Oti	ner
	nsite OffsiteTierra
(i.e. landfarmed onsite, name and location of offsite facility)	
General Description of Rer	nedial Action: Contamination started at about 3'. Hit cobble layer at 7' on northern end of
pit. At southern end of pit	excavator hit a pipeline at 3 1/2'. At 1200, contacted Ricky Cosby. The one call # is
94050314500450. Stoppe	d all construction, set up barrier fence. Pulled off location at 12:40. 05/12/94 continued
excavation on north end of	pit through cobble layer to 12'. Took PID sample, closed pit.
Ground Water Encountered	l: No X Yes Depth
Final Pit: Closure Sampling:	Sample location _ Four walls and center of pit composite
(if multiple samples, attach sample results	
and diagram of sample locations and depths)	Sample depth 12'
l locations and copens,	Sample Date05/12/94 Sample time09:50
	Sample Results
	Benzene(ppm)0.694
	Total BTEX(ppm)
	Field headspace(ppm)572
	TPH <u>242</u>
Ground Water Sample:	Yes No X (If yes, attach sample results)
I hereby certify that the inf	formation above is true and complete to the best of my knowledge and belief.
	ornation above is true and complete to the best of my knowledge and benef.
Date 1/8/03	Printed Name Scott T. Pope and Title Senior Eur. Scientist



Lindsey #1A Meter/Line ID 71261

SITE DETAILS

Legals - Twn: 30N

Rng: 8W

Sec: 19

Unit: G

NMOCD Hazard Ranking: 10

Land Type: BLM

.

Operator: Amoco Production Company

Pit Closure Date: 5/12/94

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 and BTEX. Groundwater was not encountered in the test pit. Headspace analysis indicated an organic vapor content of 572 ppm; laboratory analysis indicated a benzene concentration of 0.694 mg/kg, a total BTEX concentration of 117 mg/kg, and a TPH concentration of 242 mg/kg. The total BTEX measurements exceeded recommended remediation levels for the Hazard Ranking Score of 10.

Approximately 90 cubic yards of soil were excavated and hauled to Tierra, a commercial landfarm, for treatment and disposal. The pit was backfilled with clean soil and graded in a manner to direct surface runoff away from the pit area.

A Phase II boring was completed with auger refusal at 12.5 ft bgs. No groundwater was encountered in the soil boring. One laboratory sample was collected at 10-12 ft bgs. Headspace analysis indicated an organic vapor content of 0 ppm; laboratory analysis indicated a benzene concentration of <0.025 mg/kg, a total BTEX concentration of <0.10 mg/kg, and a TPH concentration of 103 mg/kg. The benzene TPH, and total BTEX concentrations were below recommended remediation levels for the Hazard Ranking Score.

No Phase III excavation was done.

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 impacted soils were excavated to the practical extent of the equipment and site conditions.
- Auger refusal was encountered at 12.5 feet bgs indicating that further excavation is impractical.
- The test pit was backfilled and the former pit area graded to direct surface runoff away from the former pit.
- Backfilling the pit with clean soil eliminated the potential for direct contact with hazardous constituents by livestock or the public; i.e., direct contact exposure pathways are incomplete.
- There are no water supply wells or other sources of fresh water extraction within 1,000 feet of the site.

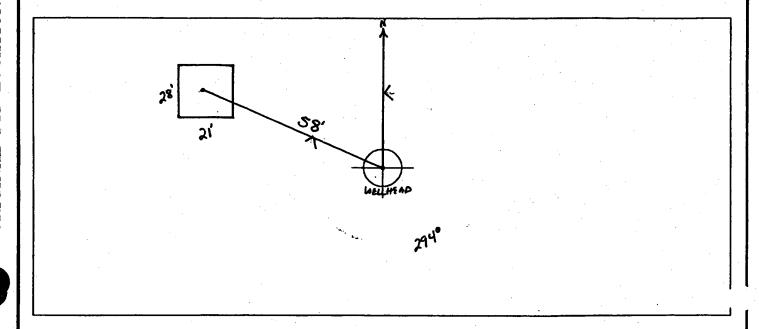
REVISED FIELD PIT SITE ASSESSMENT FORM

	Material Topotions / 1 / 1 / 1
T	Meter: 7/26/ Location: Lindsey # 1A Operator #: 0203 Operator Name: Amaco P/L District: Blooming K
GENERAL	Coordinates: Letter S Section 19 Township: 30 Range: 8
日	or Latitude Longitude
)进	Pit Type: Dehydrator \times Location Drip: Line Drip: Other:
	Site Assessment Date: 4/27/94 Area: 10 Run: 22
	Revised Date: 12/10/02
	NMOCD Zone: Land Type: BLM (1)
	(from NMCOD Maps) State (2)
	Intside \boxtimes (1) Fee \square (3)
	Outside (2) Indian
ļ	Depth to Groundwater Lear them 50 Fact (20 maints)
	Less than 50 Feet (20 points) 50 Feet to 99 Feet (10 Points) (1) (2)
	50 Feet to 99 Feet (10 Points) (2) Greater than 100 Feet (0 Points) (3)
L	
E	Well Protection Area
SN	Is it less than 1000 feet from well, spring or other source of fresh water extraction?
ES	or; Is it less than 200 feet from a private domestic water source?
ASSESSMEN	YES (20 Points) NO (0 Points)
	Horizontal Distance to Surface Water Body
SITE	Less than 200 Feet (20 points) \square (1)
S	200 Feet to 1000 Feet (10 Points) (2)
	Greater than 1000 Feet (0 Points)
	Name of Surface Water Body Son Ton Pres
	(Surface Water Body: Perennial River, Stream, Creek, Irrigation Canal, Ditch, Lake, Pond)
	Distance to Nearest Ephemeral Stream \square (1) < 100 feet (Navajo Pits Only)
	TOTAL HAZARD RANKING SCORE POINTS
KS	
2	Remarks: Rousial based on Pr-Assessment of clept to
	Gandrakt.
REM	
1 1	

REMARKS

ORIGINAL PIT LOCATION

Original Pit: a) Degrees from North 294° Footage from Wellhead 58′



Rema	rks :	

TOOK PICTURES AT 1:48 P.M.
END DUMP

Completed By:

Signature

4.27.94

Date

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: 71261 Location: Lindsey # 1A Coordinates: Letter: G Section 19 Township: 30 Range: 8 Or Latitude Longitude Date Started: 5-11-94 Area: 10 Run: 22
OBSERVATIONS	Sample Number(s): KD53 Sample Depth: 12' Feet Final PID Reading 572 ppr PID Reading Depth 12' Feet Yes No Groundwater Encountered (1) (2) Approximate Depth Feet
CLOSURE	Remediation Method: Excavation Onsite Bioremediation Backfill Pit Without Excavation Soil Disposition: Envirotech Other Facility Pit Closure Date: 5-12-94 Pit Closed By: BET
l, KS	Remarks: Contamination Started At About 3', Hit Cobble Layer At 7' on Northern End of Pit. AT Southern End of Pit Excavator hit A Pipeline at 31/2 At 1200, Contacted Ricky Cosby, The 1 Call # is 94050314500450 Stopped All Construction, Set up Barrier Fence, Pulled off Location At 12:40 Over -> Signature of Specialist: Kerry Dearur



FIELD SERVICES LABORATORY
ANALYTICAL REPORT
PIT CLOSURE PROJECT - Soil

Split WI

SAMPLE IDENTIFICATION

	Field	i ID		Lab ID			
SAMPLE NUMBER:	12753	<u> </u>	945	150			
MTR CODE SITE NAME:				WA NA	· .		
SAMPLE DATE TIME (Hrs):	5-12	.94	0	950			
SAMPLED BY:		100	VIA				
DATE OF TPH EXT. ANAL.:	5/16	 	3/16/9	ry	·		•
DATE OF BTEX EXT. ANAL.:	, , ,	- 5/17/94	+	5/19/94			
TYPE DESCRIPTION:	19944 VC		bark by	mn/blade	Sand	1	·
	- "1			/	Jono		
REMARKS:	- Sq. T						· ·
		RESULTS					
							5
	RESULT	UNITS		OTATIE	JERS :		ATI
PARAMETER	N-9041	J.113	DF	(0)		V(mi)	Resu
BENZENE	0.694	MG/KG					۷١.
TOLUENE	9,78	MG/KG				,	1.6
ETHYL BENZENE	6.83	MG/KG					2.5
TOTAL XYLENES	99.7	MG/KG			·		35
TOTAL BTEX	117	MG/KG	0.005941		5,05	30	41
TPH (418,1)	240 242	Jul 413194 MG/KG			2.09	28	110
HEADSPACE PID	572	PPM					
PERCENT SOLIDS	90.2	%					
	TPH is by EPA Method					SR=1	05
The Surrogate Recovery was at	_136_	% for this sample	All QA/QC			, W	50
Surveyed	recovers	outside	EPNG	ac 1	imits (due_	
		mx interfer	vence.	<u> </u>		<u> </u>	
DF = Dilution Factor Used	Pa	, Ņ			./		
Approved By:	Ladden	· .	Date:	1/19/49	/		



GAS CHROMATOGRAPHY RESULTS

TEST

: BTEX (EPA 8020)

CLIENT

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

PROJECT #

: 24324

PROJECT NAME : PIT CLOSURE

	SAMPLE ID. #	CLIENT I.D.		MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
	01	945150		NON-AQ	05/12/94	05/19/94	05/19/94	50
	02	945151		NON-AQ	05/12/94	05/19/94	05/19/94	50
	03	945152		NON-AQ	05/12/94	05/19/94	05/19/94	50
	PARAME	rer			UNITS	01	02	03
	BENZEN	2			MG/KG	<1.2	2.6	<1.2
	TOLUEN	E		*	MG/KG	1.9	32	3.8
	THYLBI	ENZENE			MG/KG	2.5	4.4	2.2
•	TOTAL 2	XYLENES			MG/KG	35	110	26
	SURROG	ATE:		· .	•			
	BROMOF	LUOROBENZENE	(%)			65	62*	39*

*OUTSIDE ATI QUALITY CONTROL LIMITS DUE TO MATRIX INTERFERENCE





GENERAL CHEMISTRY RESULTS

CLIENT

: EL PASO NATURAL GAS CO.

ATI I.D.

: 405378

PROJECT #

: 24324

DATE RECEIVED

: 05/18/94

PROJECT NAME

: PIT CLOSURE

DATE ANALYZED

: 05/20/94

PARAMETER

UNITS

01

PETROLEUM HYDROCARBONS, IR MG/KG

1100

EPNG Sample # 945150 Split

RECORD OF SUBSURFACE EXPLORATION

PHILIP ENVIRONMENTAL

5000 Monroe Road
Fermington, New Mexico 87401

(505) 326-2282 FAX (505) 326-2388

Elevation

Borehole Location

GWL Depth

Logged By

Drilled By

M DONOHUE

Date/Time Started

Dete/Time Completed

1615

Lindsey # 1A [7126]

A /A

Logged By

S Page

Lindsey # 1A [7126]

A /A

Logged By

S Page

Lindsey # 1A [7126]

A /A

Logged By

S Page

Lindsey # 1A [7126]

A /A

Logged By

Lindsey # 1A [7126]

Logged By

Logged

Borehole #	BH-1
Well #	NIA
Page 1	01 /

Project Name EPNG PITS
Project Number 14509 Phase 6000 77
Project Location Faster Pump Canyer

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

X/A

X/A

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)	Ĭ.	r Monito : PPM BH	ring As	Drilling Conditions & Blow Counts
0 5				Brown Sandy Fill						
10 15	1	10	\$\$ 	Brown-Gray Clayey Sand my Gracel and Cobbles Fine-Med Sand, Medium Cravell, Dense, Skithly, TOB = 12.5	Moist	10	0	0		1530 HS=8ppm In cobbbes @ 12 Auger Refusal @ 12.5 Could rotget 12.5' Sample Sampler bouncing on Cobbles.
20 										
30 35 35										

Comments: Auger Rofusel @ 12.5 . Could not get 12.5 Sople due to Cobbles.

Sample bouncing on Cobble Zone Collect 10-12 Sample. Grant having shut

W/ Cemant /Bentonite Grant.

Geologist Signature



FIELD SERVICES LABORATORY ANALYTICAL REPORT



0.00 J
Prosect

SAMPL	E IC	ENT	IFIC	ATI	ON
-------	------	-----	-------------	-----	----

	Field	I ID			1		
SAMPLE NUMBER:	STP L		946905				
MTR CODE SITE NAME:	7/261		N/A				
SAMPLE DATE TIME (Hrs):	6-14-	95	1530				
SAMPLED BY:	1	N	/A				
DATE OF TPH EXT. ANAL.:	6 15 95		6.15-95				
DATE OF BTEX EXT. ANAL.:	6-16.95		6-16-95				
TYPE DESCRIPTION:	VG		grey sand & Clay			ļ	
			U .				
REMARKS:							
		RESULTS					
							7
PARAMETER	RESULT	UNITS		QUALIFIE	ERS		
FAMILE			DF	Q T	M(g)	V(ml)	
BENZENE	20.025	MG/KG	1			·	
TOLUENE	10.025	MG/KG	1	·			
ETHYL BENZENE	۲٥.025	MG/KG	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \				
TOTAL XYLENES	८ <i>७.</i> ०२५	MG/KG	1				
TOTAL BTEX	۷٥.۱٥	MG/KG					
TPH (418.1)	103	MG/KG	ind 6 e d	. 10	2.08	28	
HEADSPACE PID	6	PPM					
PERCENT SOLIDS	92.8	%					
	TPH is by EPA Method			:			
The Surrogate Recovery was at Narrative:	94	% for this sample	e All QA/QC	was accepta	ıble.		
result Attached	GO BTEX A	nd mod: G	o) ୫୦ <i>।</i> \$			<u> </u>	
DF = Dilution Factor Used				1,		4	
Approved By:		· · ·	Date:	6/28/	95	· .	



GAS CHROMATOGRAPHY RESULTS

TEST

: BTEX (EPA 8020)

CLIENT

: EL PASO NATURAL GAS CO.

ATI I.D.: 506376

PROJECT #

: 24324

PROJECT NAME : PIT CLOSURE/PHASE II

SAMPLE		DATE	DATE	DATE	DIL.
ID. # CLIENT I.D.	MATRIX	SAMPLED	EXTRACTED	ANALYZED	FACTOR
13 946903	NON-AQ	06/14/95	06/16/95	06/16/95	1
14 946904	NON-AQ	06/14/95	06/16/95	06/16/95	1
15 946905	NON-AQ	06/14/95	06/16/95	06/16/95	1
PARAMETER		UNITS	13	14	15
BENZENE		MG/KG	<0.025	<0.025	<0.025
TOLUENE		MG/KG	0.037	<0.025	<0.025
ETHYLBENZENE		MG/KG	<0.025	<0.025	<0.025
TOTAL XYLENES		MG/KG	<0.025	<0.025	<0.025
SURROGATE:					
BROMOFLUOROBENZENE (%)			102	101	94



GAS CHROMATOGRAPHY RESULTS

TEST

: EPA 8015 MODIFIED

CLIENT

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

506376

PROJECT #

: 24324

PROJECT NAME

: PIT CLOSURE/PHASE II

			and the second s			
SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
12	946902	NON-AQ	06/14/95	06/16/95	06/19/95	1.0
13	946903	NON-AQ	06/14/95	06/16/95	06/19/95	1
15	946905	NON-AQ	06/14/95	06/16/95	06/19/95	1
PARAMETER		UNITS	12	13	15	
FUEL H	YDROCARBONS		MG/KG	3400	<5	<5
HYDROC	ARBON RANGE			C10-C36	-	
HYDROCARBONS QUANTITATED USING			DIESEL		-	
SURROG	ATE:					
O-TERPHENYL (%)				80	102	94