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

(Revised 3/9/94)

culled extraneous well

PIT REMEDIATION AND CLOSURE REPORT

	50 -2096) ANILOW	2520
	Telephone On The Contract of t	300
Address:	<u> </u>	<u> </u>
Facility Or W.D. Heath A#11, Meter 87476. Well Name	ML (0.6.81	953
Location: Unit or Qtr/Qtr Sec_1_Sec_9_	_T29 R9 County San Jua	n
Pit Type: Separator Dehydrator	Other Drip	
Land Type: BLM X, State, Fe	e Other	
Pit Location: Pit dimensions: length 18', (Attach diagram) Reference: wellhead X Footage from reference: 90'	_, other	
		·
Direction from reference: 200	Degrees X East North of	
Direction from reference: _200	_ DegreesXEast North of West Sout	 h
Depth To Ground Water	of West Sout Less than 50 feet	(20 points)
Depth To Ground Water (Vertical distance from	Description of West Sout Less than 50 feet 50 feet to 99 feet	(20 points) (10 points)
Depth To Ground Water (Vertical distance from contaminants to seasonal	of West Sout Less than 50 feet	(20 points)
Depth To Ground Water (Vertical distance from	Description of West Sout Less than 50 feet 50 feet to 99 feet	(20 points) (10 points)
Depth To Ground Water (Vertical distance from contaminants to seasonal high water elevation of ground water.)	Less than 50 feet 50 feet to 99 feet Greater than 100 feet	(20 points) (10 points) (0 points) _10_
Depth To Ground Water (Vertical distance from contaminants to seasonal high water elevation of ground water.) Wellhead Protection Area:	Less than 50 feet 50 feet to 99 feet Greater than 100 feet Yes	(20 points) (10 points) (0 points) _10_
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	Less than 50 feet 50 feet to 99 feet Greater than 100 feet	(20 points) (10 points) (0 points) _10_
Depth To Ground Water (Vertical distance from contaminants to seasonal high water elevation of ground water.) Wellhead Protection Area:	Less than 50 feet 50 feet to 99 feet Greater than 100 feet Yes	(20 points) (10 points) (0 points) _10_
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 1000 feet from all other water sources.)	Less than 50 feet 50 feet to 99 feet Greater than 100 feet Yes No	(20 points) (10 points) (0 points)10_ (20 points) (0 points)0
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 1000 feet from all other water sources.) Distance To Surface Water:	Less than 50 feet 50 feet to 99 feet Greater than 100 feet Yes	(20 points) (10 points) (0 points)10_ (20 points) (0 points)0 (20 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 1000 feet from all other water sources.)	Less than 50 feet 50 feet to 99 feet Greater than 100 feet Yes No Less than 200 feet	(20 points) (10 points) (0 points)10_ (20 points) (0 points)0

Date Remediation Started: _	05/17/94 Date completed:05/17/94
	avation X Approx. cubic yards 60
Check all appropriate sections.) Lan	dfarmed Insitu Bioremediation
Oth	er
Remediation Location: One (i.e. landfarmed onsite,	site OffsiteTierra
name and location of offsite facility)	
	adial Action. Some line markers Dit looks dry Started remediating 12' soil looks gray
	edial Action: Some line markers. Pit looks dry. Started remediating 12', soil looks gray,
Sandy. Bottom pit still gray	and sandy. PID 156.
-	
Ground Water Encountered	No <u>X</u> 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	Sample depth_12'
locations and depths)	Sample Date05/17/94 Sample time12:43
	Sample Results
	Benzene(ppm) <1.2
	· · · · · · · · · · · · · · · · · · ·
	Total BTEX(ppm) 267
	Field headspace(ppm) _ 156 _
	TPH <u>2730</u>
Ground Water Sample:	Yes No X (If yes, attach sample results)
Thereby certify that the infe	ormation above is true and complete to the best of my knowledge and belief.
	\wedge
Date $1/8/93$	Printed Name Scott T. Pope and Title Senior ENV. Scientist
Signature Juit 7	and Title Senior ENV. Scientist



W.D. Heath A #11 Meter/Line ID 87476

SITE DETAILS

Legals - Twn: 29N

Rng: 9W

Sec: 9

Unit: L

NMOCD Hazard Ranking: 10

Operator: Amoco Production Company

Land Type: BLM

Pit Closure Date: 5/17/94

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 156 ppm; laboratory analysis indicated a benzene concentration of <1.2 mg/kg, a total BTEX concentration of 267 mg/kg, and a TPH concentration of 2,730 mg/kg. The total BTEX and TPH measurements exceeded recommended remediation levels for the Hazard Ranking Score of 10.

Approximately 60 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 to 30.5 ft bgs. No groundwater was encountered in the soil boring. One laboratory sample was collected at 28.5-30.5 ft bgs. Headspace analysis indicated an organic vapor content of 3 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 47.5 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 impacted soils were excavated to the practical extent of the equipment and disposed of at an offsite location.
- 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
- Groundwater was not encountered in the soil boring to 30 ft bgs.

FIELD PIT SITE ASSESSMENT FORM

GENERAL	Meter: 87476 Location: W.D. HEATH A #11 Operator #: D203 Operator Name: Amoco P/L District: Bloomfills Coordinates: Letter: L Section 9 Township: 29 Range: 9 Or Latitude Longitude Pit Type: Dehydrator Location Drip: X Line Drip: Other: Site Assessment Date: 5.7.94 Area: 10 Run: 53
ASSESSMENT	NMOCD Zone: (From NMOCD (From NMOCD Maps) Inside Outside (1) Fee (3) Outside Indian Depth to Groundwater Less Than 50 Feet (20 points) That (2) Greater Than 100 Ft (0 points) 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
SITE ASSES	domestic water source? (1) YES (20 points) (2) NO (0 points) 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 MANZANARES CANYON (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' TOTAL HAZARD RANKING SCORE: 30 POINTS
REMARAS	Remarks: Three Pits on Location will close only one. Pit is DRY. LOCATION IS ON A HILLED JUST WEST OF MANEAHARES CANYON. REDLINE AND TOPO
MA	CONFIRMED LOCATION TO BE INSIDE THE VIZ.
1 2	DIG É LIACU

REVISED FIELD PIT SITE ASSESSMENT FORM

GENERAL	Meter: \$\frac{87476}{20}\$ Location: \(\begin{align*} align
	NMOCD Zone: Land Type: BLM ☑ (1) (from NMCOD Maps) State ☐ (2) Intside ☑ (1) Fee ☐ (3) Outside ☐ (2) Indian
L	Depth to GroundwaterLess than 50 Feet (20 points) \Box (1)50 Feet to 99 Feet (10 Points) \boxtimes (2)Greater than 100 Feet (0 Points) \Box (3)
SSESSMEN	Well Protection Area Is it less than 1000 feet from well, spring or other source of fresh water extraction? or; Is it less than 200 feet from a private domestic water source? YES (20 Points) NO (0 Points)
SITE AS	Horizontal Distance to Surface Water Body Less than 200 Feet (20 points) ☐ (1) 200 Feet to 1000 Feet (10 Points) ☐ (2) Greater than 1000 Feet (0 Points) ☐ (3)
	Name of Surface Water Body Manzantos Comyon
	(Surface Water Body: Perennial River, Stream, Creek, Irrigation Canal, Ditch, Lake, Pond) Distance to Nearest Ephemeral Stream (Navajo Pits Only) (2) > 100 feet
	TOTAL HAZARD RANKING SCOREPOINTS
REMARKS	Remarks: Trusian BASED on DE-ASSESSMENT NE BOTH NEARLY TO COMMARKE & MISTANIE TO SURFACE in Alle Budy.

FIELD PIT SITE ASSESSMENT FORM

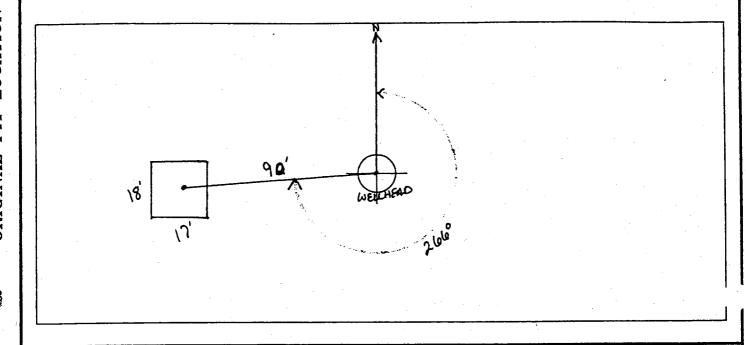
-1		
	GENERAL	Meter: 87476 Location: W.D. Heath A-1) Operator #: 0203 Operator Name: Amoco P/L District: BloomField
	Œ	Coordinates: Letter: K Santia 9 -
	E	Coordinates: Letter: K Section 9 Township: 29 Range: 9
	9	
1		Pit Type: Dehydrator V Location Drip: Line Drip: Other:
L		Site Assessment Date: \(\frac{1}{4}\frac{94}{94}\) Area: \(\frac{10}{10}\) Run: \(\frac{53}{2}\)
		NMOCD Zone: Land Type: Div (1)
ľ		(From NMOCD Land Type: BLM (1)
		Maps) · Inside \square (1) State \square (2)
		Outside (2)
		Depth to Groundwater
1		The The TO F is the
T T		C
	N	Wellhead Protection Area:
	ME	Is it less than 1000 ft from wells, springs, or other sources of
	SS	11 000
	ASSESSMENT	YES (20 points) (2) NO (0 points)
	AS	Horizontal Distance to Surface Water Bad
	回	Less than 200 Ft (20 points) X (1)
	SITE	200 Ft to 1000 Ft (10 points) (2)
	-	Greater Than 1000 Ft (0 points) (3)
		Name of Surface Water Body Manzanares Canana
		(Surface Water Body: Perennial Rivers Mains W. 1. 3)
	I	
		Distance to Nearest Ephemeral Stream (1) < 100'(Navajo Pits Only)
		$\square (2) > 100' $
		TOTAL HAZARD RANKING SCORE: 40 POINTS
	<u>-</u>	1 011(15)
DEWADI		Remarks: Redline Book - Inside Vulnerable Zone Tape - Inside
X	y h	slack of the stank init. No dohn on pit to be
O TO	<u> </u>	1 Delongs to Amoco Now BR- H merica
		NTC IIIAII

•	2	,
•	20	-
1	-	٠
•	_	ė
	Ξ	
-		
ŀ	-	=
•	٠.	
-	⋖	C
,	•	=
(_	ì
- 2	Ξ	
•		2
	-	
۰		
	-	
1	-	•
- 5	_	
	<u> </u>	
•	ר	
		_
•		
4	⋖	I
	_	1
•		
	-	
•	-	-
,	- 1	٠
•	_	
1	_	
7	_	•
1	3	_
•	Ξ	_
- (1
	-	•

REMARKS

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 266° Footage from Wellhead 90'



Rema	rks:

TOOK PICTURES AT 1:59 f.m.

END DUMP

Completed By:

Signature

5.7.94

Date



FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT - Soil

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	KP 55	945193
MTR CODE SITE NAME:	87476	N/A
SAMPLE DATE TIME (Hrs):	5-17.94	1213
SAMPLED BY:		N/A
DATE OF TPH EXT. ANAL.:	5-18-94	5/18/94
DATE OF BTEX EXT. ANAL.:	5 23 94	5/26/94
TYPE DESCRIPTION:	٧C	Gray course sond

REMARKS:	
UPINITIO.	

RESULTS

	RESULT	UNITS		QUALIFIE		
PARAMETER			DF	Q	⊗M(g)⊚	V(ml)
BENZENE	41.2	MG/KG	50			
TOLUENE	43	MG/KG	50			
ETHYL BENZENE	13	MG/KG	50		· ·	
TOTAL XYLENES	210	MG/KG	50			
TOTAL BTEX	267	MG/KG				
TPH (418.1)	2730	MG/KG		·	1.67	28
HEADSPACE PID	154	PPM				
PERCENT SOLIDS	94.0	%				

-- TPH is by EPA Method 418.1 and BTEX is by EPA Method 8020 --Alla % for this sample All QA/QC was acceptable.

Surrogate Recovery was a	it	70 for this sample	All da/de was association	
etive:	u Ola att	ached. Sun	mate receivery	-ton
HILL	1	to Sample		
DF = Dilution Factor Used				

Approved By: John Fatch



GAS CHROMATOGRAPHY RESULTS

TEST

: BTEX (EPA 8020)

CLIENT

: EL PASO NATURAL GAS CO. ATI I.D.: 405389

PROJECT #

: 24324

PROJECT NAME : PIT CLOSURE

SAMPLE	CLIENT I.D.	<u></u> -	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
ID. #	945192		NON-AQ	05/17/94	05/23/94	05/26/94	1
02	945193		NON-AQ	05/17/94	05/23/94	05/26/94	50
02	945194	•	NON-AQ	05/17/94	05/23/94	05/26/94	50
PARAME				UNITS	01	02	03
BENZEN				MG/KG	<0.025	<1.2	<1.2
DLUEN		•		MG/KG	<0.025	43	4.3
i i i	BENZENE			MG/KG	<0.025	13	3.9
	XYLENES	.•		MG/KG	0.40	210	89
SURRO					0.4	NA*	NA*
BROMO	FLUOROBENZENE	(%)			94	NA	44 A · · ·

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

GEL	Meter: 87476 Location: w.D. HEATH A 11 Coordinates: Letter: L. Section 9 Township: 29 Range: 9 Or Latitude Longitude Date Started: 5-17-94 Area: 10 Run: 53
FIELD OBSERVATIONS	Sample Number(s): KP +55 Sample Depth: 12' Feet Final PID Reading Depth 12' 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: 5-17-94 Pit Closed By: 18.E.T.
REMARKS	Remarks: Some Line markers Pit Lookes Dry Started Remediating 12' Soil Lookes Gray. Sandy. Bottom Pit Still gray and Sandy. P. P. 156 Signature of Specialist: Kelly Padilla

(SP3191) 04/07/94

RECORD OF SUBSURFACE EXPLORATION

Philip Environmental Services Corp. 4000 Monroe Road Fermington, New Mexico 87401 (606) 326-2262 FAX (606) 326-2388

Elevation
Borehole Location
GWL Depth
Logged By
Drilled By
Date/Time Started
Date/Time Completed

Elevation

S.Kelly

Domanue

6/19/95, /400

Borehole #	BH-1
Vell #	
Page	of

Project Name EPNG Pits
Project Number 14509 Phase 601
Project Location W.D. Heath H #11, 8741

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)		r Monitor Inite: ND BH		Drilling Conditions & Blow Counts	
	E				Backfill to 12'					·		
	5											
	10		;									
Ţ.	15				Silty SAND, tan, fine Sand, loose, dry							
	20	1	185- 20.5	1.11				٥	13,9	235 240	- Z:25pm	
		7-	23,5° 25.5	1.1'						3/13	1433	
		·	29.5 29.5 30.5	1	SAND-fine to coarse,		27	<u></u>		9	1440	
	30	2	30.0		SAND-fine to coarse, tan, 10-15% fine grave) loose, dry. ROH-30.5							
	35											
	40											

Comments:

29.5-30.5 sample (SEK14) sent to Jab (BTEX & TPH)
BH grouted to surface

Geologist Signature

such Helly

CILIF**250**Natural Gas Company

Phase II with in tell

FIELD SERVICES LABORATORY ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

	Field 1D	Lab ID
SAMPLE NUMBER:	SEX 13	946913
MTR CODE SITE NAME:	87476	N/A
SAMPLE DATE TIME (Hrs):	6-19.95	1440
SAMPLE DATE TIME (1.15)		N/A
DATE OF TPH EXT. ANAL.:	6-21-95	6-21-95
DATE OF BTEX EXT. ANAL.:	6 - 22 -95	6.22.95
TYPE DESCRIPTION:	VG	Red Brown fine sand

REMARKS:	·	

RESULTS

	RESULT	UNITS		ERS		
PARAMETER	RESULT		DF	Q	M(g)	V(ml)
BENZENE	۷ 0.025	MG/KG	1			
TOLUENE	40.025	MG/KG	1			
ETHYL BENZENE	40.025	MG/KG				
TOTAL XYLENES	40.025	MG/KG	1			
TOTAL BTEX	20.10	MG/KG				
TPH (418.1)	47.5	MG/KG			1.96	28
HEADSPACE PID	3	PPM				
PERCENT SOLIDS	94.8	%				

	- TPH is by EPA Method	d 418.1 and BTEX is by EPA	Method 8020
Surrogate Recovery was at	93	_% for this sample	All QA/QC was acceptable.

Narrative:



GAS CHROMATOGRAPHY RESULTS

TEST

: BTEX (EPA 8020)

CLIENT

: EL PASO NATURAL GAS CO. ATI I.D.: 506401

PROJECT # : 24324

PROJECT NAME : PIT CLOSURE/PHASE II

SAMPLE ID. # CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
01 946912	NON-AQ	06/19/95	06/22/95	06/22/95	1
02 946913	NON-AQ	06/19/95	06/22/95	06/22/95	1
03 946914	NON-AQ	06/19/95	06/22/95	06/22/95	1
PARAMETER		UNITS	01	02	03
BENZENE		MG/KG	<0.025	<0.025	<0.025
DLUENE		MG/KG	<0.025	<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 (%)			98	93	96