State of New Mexico **Energy Minerals and Natural Resources**

PIT	REMEDIAT	ION AND	CLOSURE	REPORT

District I	COLUMN TO THE STATE OF THE STAT	11150	Submit 1 copy to
1625 N. French Dr., Hobbs, NM 88240	State of New Mexico	J	appropriate
District II 1301 W. Grand Avenue, Artesia, NM 88210	Energy Minerals and Natural Resources		District Office
District III		1 0	and 1 copy to the Santa Fe Office
1000 Rio Brazos Road, Aztec, NM 87410 District IV	Oil Conservation Division	aetme	the Santa Fe Office (Revised 3/9/94)
1220 S. St. Francis Dr., Santa Fe, NM 87505	1220 South St. Francis Dr.	((Revised 3/9/94)
	Santa Fe, NM 87505	A 0 100	11200
DIT DE	MEDIATION AND OLOOUSE SES	-489 W	11 (137)
PITRE	MEDIATION AND CLOSURE REP		~ • • • • • • • • • • • • • • • • • • •
		DEC !	2002
		سيولات ويحسب	11 32 mg
Operator: AMAX	Telephone:	M OIL CO	48.0N =
	134	P. P.SS	1.3
Address: 30-	339-23	A Principal of the Prin	\$ \frac{1}{2}
		(3)	- 310 3 2
Facility Or: Lindrith 110E (DK),	Mater 0/7/18	Cole Cole	2 Sex Cor
	WIELEI 94748		
Well Name			
I			
Location: Unit or Qtr/Qtr Sec	Sec 10 T 26 R 7	_ County <u>_Ri</u>	o Arriba
Pit Type: Separator Dehyd	lrator Other Drip		
Land Type: BLM X, State	, Fee Other		
(Attach diagram) Reference: wellhead Footage from reference	h _18', width _19', depth _4'		 h_
,	· ·		
Depth To Ground Water	Less than 50 feet		(20 points)
(Vertical distance from	50 feet to 99 feet		(10 points)
contaminants to seasonal	Greater than 100 feet		(0 points) <u>10</u>
high water elevation of			(o points) <u></u>
ground water.)			
ground water.)			
Wallhard Dustaction Amer.		37	(00
Wellhead Protection Area:		Yes	(20 points)
(Less than 200 feet from a private		No	(0 points) <u>0</u>
domestic water source, or; less than			
1000 feet from all other water source	es.)		
Distance To Surface Water:	Less than 200 feet		(20 points)
(Horizontal distance to perennial	200 feet to 1000 feet		(10 points)
lakes, ponds, rivers, streams, creeks,			· • · · ·
	Greater than 1000 feet		(0 points) <u>0</u>
irrigation canals and ditches.)			10 . 50 0
			Jaeviseu
	RANKING SCORE (TOTAL	POINTS):	10

Date Remediation Starte	ed: <u>06/01/94</u> Date completed: <u>06/01/94</u>
(Check all appropriate	Excavation X Approx. cubic yards 50
sections.)	Landfarmed Insitu Bioremediation
	Other
Remediation Location: (i.e. landfarmed onsite, name and location of offsite facility)	Onsite Offsite
General Description of R	Remedial Action: No line markers; started remediating 12'. Soil dark, smells. Lots of big rocks.
At 12' soil still dark gray	y. PID 172. Closed pit.
Ground Water Encounter	red: No <u>X</u> Yes Depth
Final Pit: Closure Sampling: (if multiple samples,	Sample locationFour walls and center of pit composite
attach sample results and diagram of sample	Sample depth 12'
locations and depths)	
	Sample Date <u>06/01/94</u> Sample time <u>16:46</u>
	Sample Results
	Benzene(ppm) 25
	Total BTEX(ppm) 110
	Field headspace(ppm)172
	TPH <u>2650</u>
Ground Water Sample:	Yes NoX (If yes, attach sample results)
I hereby certify that the ir	nformation above is true and complete to the best of my knowledge and belief.
Date 1/8/03	
Signature Swin	Printed Name Scott T. Proper and Title Senior Exx. Scientist



Lindrith 110E (DK) Meter/Line ID 94748

SITE DETAILS

Rng:7

Legals - Twn: 26N

NMOCD Hazard Ranking: 10

Operator: AMAX

Sec:10

Land Type: BLM

Unit: C Pit Closure Date: 06/01/94

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.

The pit was excavated to 12 feet (ft) below ground surface (bgs) to the practical extent of the equipment and a soil sample was collected for field headspace analysis and laboratory analysis for BTEX and TPH. Groundwater was not encountered in the test pit. Headspace analysis indicated an organic vapor content of 172 ppm; laboratory analysis indicated a benzene concentration of <0.25 mg/kg, a total BTEX concentration of 110 mg/kg, and a TPH concentration of 2,650 mg/kg. The benzene concentration was below its recommended remediation level for the Hazard Ranking Score. The total BTEX and TPH concentrations exceeded recommended remediation levels for the Hazard Ranking Score of 10.

Approximately 50 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 27 ft bgs. No groundwater was encountered in the soil boring. One laboratory sample was collected at 25-27 ft bgs. Headspace analysis indicated an organic vapor content of 26 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 312 mg/kg. Benzene and BTEX concentrations were below recommended remediation levels for the Hazard Ranking Score. The TPH concentration exceeded its recommended remediation level for the Hazard Ranking Score.

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

- The primary source, discharge to the pit, has been removed for over eight years.
- The impacted soil was excavated to the practical extent of the equipment and disposed of offsite.
- The excavation 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.
- Groundwater was not encountered in the soil boring to 27 ft bgs.



- There are no water supply wells or other sources of fresh water extraction within 1,000 feet of the site.
- TPH concentrations in the soil at 27 ft bgs were about 12% of the concentration at 12 ft bgs; BTEX was non-detect at the base of the soil boring versus 110 mg/kg at 12 ft bgs. This strong attenuation with depth indicates that residual hydrocarbons will degrade by natural attenuation with minimal risk to the environment.

ATTACHMENTS

Field Pit Assessment Form Revised Field Pit Assessment Form Field Pit Remediation/Closure Form Phase 2 Soil Boring Log Laboratory Analytical Results

FIELD PIT SITE ASSESSMENT FORM

	GENERAL	Meter: 94748 Location: Lindrith 110 E (DK) Operator #: Olly Operator Name: AMAX P/L District: Black Coordinates: Letter: Section 10 Township: Ab Range: 7 Or Latitude Longitude Pit Type: Dehydrator Location Drip: \(\sqrt{Line Drip:Other:} \) Site Assessment Date: \(\frac{5}{18/94} \) Area: \(\frac{03}{03} \) Run: \(\frac{73}{12} \)
		NMOCD Zone: Land Type: BLM □ (1) (From NMOCD State □ (2) Maps) Inside □ (2) □ (3) Outside □ (2) □ (a) Depth to Groundwater □ (2) □ (2) Less Than 50 Feet (20 points) □ (2) 50 Ft to 99 Ft (10 points) □ (2) Greater Than 100 Ft (0 points) □ (3)
ESSMENT	ASSESSMENT	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 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) (1) 200 Ft to 1000 Ft (10 points) (2) Greater Than 1000 Ft (0 points) (3) Name of Surface Water Body Large 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: 40 POINTS
	REMARKS	Remarks: Redline & Vula - Insider boits. Will close & (IBL & I DK) Pits Dry. Trushin DK
	EM	
L	TK	DIG 4HAUL

REVISED FIELD PIT SITE ASSESSMENT FORM

GENERAL	Meter: 94748 Location: Lindreth 110 & (DK) Operator #: 0144 Operator Name: Amax P/L District: Blanco Coordinates: Letter C Section 10 Township: 20 Range: 7 or Latitude Longitude Pit Type: Dehydrator Location Drip: Line Drip: Other: Site Assessment Date: 5/18/94 Area: 03 Run: 72 Revised Date: 9/25/02
	NMOCD Zone: Land Type: BLM (1)
	(from NMCOD Maps) Intside (1) Outside (2) Indian
	Depth to Groundwater
	Less than 50 Feet (20 points)
	50 Feet to 99 Feet (10 Points) (2) Greater than 100 Feet (0 Points) (3)
出	Well Protection Area
ASSESSMENT	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 A	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) (X) (3)
	Name of Surface Water Body Lange Canyon
	(Surface Water Body: Perennial River, Stream, Creek, Irrigation Canal, Ditch, Lake, Pond)
	Distance to Nearest Ephemeral Stream (1) < 100 feet (Navajo Pits Only) (2) > 100 feet
	TOTAL HAZARD RANKING SCOREPOINTS
REMARKS	Remarks: <u>Pavision</u> Bried on RE-ASSESSMENT OF DEPTH TO LOTEOUNDUMER USING DELOEME SOFTMANE. DISTANCE to NEMBEST SUITALE MAKE BODY WAS Also RE-CUALUATED.



FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT - Soil

SAMPLE IDENTIFICATION

Lab ID Field ID SAMPLE NUMBER: 945333 KP 77 N/A MTR CODE | SITE NAME: 94748 1646 SAMPLE DATE | TIME (Hrs): N/A SAMPLED BY: DATE OF TPH EXT. | ANAL.: DATE OF BTEX EXT. | ANAL.: ERAY MEDIUM SAUD TYPE | DESCRIPTION:

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•	_	• •						

RESULTS

PARAMETER	RESULT	UNITS		QUALIFIE	RS	
PAKAWETEN	1120021		DF	Q	M(g)	V(ml)
BENZENE	LO.25	MG/KG	10			
TOLUENE	9.4	MG/KG	10	· · · · · · · · · · · · · · · · · · ·		
ETHYL BENZENE	LO.25	MG/KG	10			
TOTAL XYLENES	100	MG/KG	10			
TOTAL BTEX	110	MG/KG				
TPH (418.1)	2650	MG/KG			2.01	28
HEADSPACE PID	172	PPM				· · · · · · · · · · · · · · · · · · ·
PERCENT SOLIDS	90,8	%				·

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

The Surrogate Recovery was at	<u> 140 </u>	% for this sample	All QA/QC was acc	eptable.
Neve:	attached.	Surrogate	recovery	was outside
ATI OC	limits d	ue to r	Priximon	enference.
DF = Dilution Factor Used	Pa			indered to
Approved By:	article.	·	Date:	114/114



GAS CHROMATOGRAPHY RESULTS

TEST

: BTEX (EPA 8020)

CLIENT

: EL PASO NATURAL GAS

ATI I.D.: 406313

PROJECT #

: 24324

PROJECT NAME : PIT CLOSURE

- 1. C		*			
SAMPLE ID. # CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
16 945332	NON-AQ	06/01/94	06/06/94	06/07/94	1
17 945333	NON-AQ	06/01/94	06/06/94	06/08/94	10
PARAMETER		UNITS	16	17	
BENZENE		MG/KG	0.044	<0.25	
TOLUENE		MG/KG	<0.025	9.4	
ETHYLBENZENE		MG/KG	0.47	<0.25	
TAL XYLENES		MG/KG	6.4	100	
			•		
SURROGATE:			· · · · · · · · · · · · · · · · · · ·	* 4 O b	
		•	120*	140*	

BROMOFLUOROBENZENE (%)

*OUTSIDE ATI QUALITY CONTROL LIMITS DUE TO MATRIX INTERFERENCE

FIE! PIT REMEDIATION/CLOSU E FORM

	T	
		Meter: 94748 Location: Lindrith 110E (DK)
GENERAL		Coordinates: Letter: C Section 10 Township: 26 Range: 7
15	5	Or LatitudeLongitude Date Started : <u>6-1-94</u> Area: <u>03</u> Run: <u>72</u>
		Date Started Area Area.
\(\sigma_2 \)	,	10t
Z		Sample Number(s): Kt 77
7 A T		Sample Depth: 12 Feet
OBSERVATIONS		Final PID Reading 172 PID Reading Depth 12 Feet
ORS		Yes No
1		Groundwater Encountered (1) (2) Approximate DepthFeet
FIET D		
	1	
	1	
1.	1	Remediation Method :
		Δ
TO F	KE	Excavation (1) Approx. Cubic Yards 50
	URE	Excavation \square (1) Approx. Cubic Yards \square Onsite Bioremediation \square (2)
	UKE	Excavation Onsite Bioremediation Backfill Pit Without Excavation (1) Approx. Cubic Yards (2) (3)
	URE	Excavation Onsite Bioremediation Backfill Pit Without Excavation Soil Disposition: Envirotech Other Facility (1) Approx. Cubic Yards (2) (3) Tierra
	CLUSURE	Excavation Onsite Bioremediation Backfill Pit Without Excavation Soil Disposition: Envirotech (1) Approx. Cubic Yards (2) (3) Tierra
12012	CLUSURE	Excavation Onsite Bioremediation Backfill Pit Without Excavation Soil Disposition: Envirotech Other Facility Pit Closure Date: 6-1-94 Pit Closed By: 3-ET
12012	CLUSURE	Excavation Onsite Bioremediation Backfill Pit Without Excavation Soil Disposition: Envirotech Other Facility Pit Closure Date: 6-1-99 Remarks: No Links markels. Started lemediatins 12'
12012	CLUSURE	Excavation Onsite Bioremediation Backfill Pit Without Excavation Soil Disposition: Envirotech Other Facility Pit Closure Date: 6-1-94 Pit Closed By: 3-ET
12012	CLUSURE	Excavation Onsite Bioremediation Backfill Pit Without Excavation Soil Disposition: Envirotech Other Facility Pit Closure Date: 6-1-94 Pit Closure Date: 6-1-94 Remarks: No Link markel: Started Remediating 12' Soil Dark Smell's Lots of Dis Rocks. At 12 Soil Still Dark Gray. Pib. 172 Closed Pit
TOOTO	CLUSURE	Excavation Onsite Bioremediation Backfill Pit Without Excavation (2) Backfill Pit Without Excavation (3) Soil Disposition: Envirotech Other Facility (1) (2) (3) Tierra Other Facility Pit Closure Date: 6-1-94 Pit Closed By: BET Remarks: No Link markels: Started lemediating 12' Soil Dark Smell's Lois of Bis Rock's At 12 Soil Still



CHAIN OF CUSTODY RECORD

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PROJECT NUMBER PROJECT NAME				_	-	EQUESTE	REQUESTED ANALYSIS		CONTIAC	CONTLACT LABORATORY P. O. NUMBER	MBER	T
	Pit Closure Project # 24324	958						-	1			Γ
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LABID DATE TIME MATRIX	SAMPLE NI		OE CO	19T A 443	4 АЧЗ ЭТВ В АЧЗ	8 A43	8				REMARKS	
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											Line Lin	.
REQUESTED TURNAROUND TIME. C) ROUTINE C) RUSH	SAMPI	SAMPLE RECEIPT REMARKS	MARKS			٠.	· .	RESULTS (RESULTS & INVOICES TO: FI	ELD SERVI	FIELD SERVICES (LABORATORY)	
CARRIER CO.	a a r	CHARGE CODE								PASO NA P. O. BOX 499 FARMINGTO	P. O. BOX 4990 FARMINGTON, NEW MEXICO 87499	· · · · · · · · · · · · · · · · · · ·
BILL NO:								505-599-2144	144		FAX: 505-599-2261	
	mint Committee										FM-08-0565A (Rev. 03-94)	v. 03-94)

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

RECORD OF SUBSURFACE EXPLORATION

PHILIP ENVIRONMENTAL

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

Elevation	
Borehole Location	QC - SID - Tal - R7
GWL Depth	
Logged By	CM CHANCE
Drilled By	K Padilla
Date/Time Started	9/19/95-0916
Data (Time Comple	

Borehole #	BH-1
Well #	
Page	of

Project Name	EPNG PITS	
Project Number	14509 Phase 6000	77
Project Location	Lindouth HOE (OK)	94748
Well Logged By	CM Chance	
	K Padilla & P. A. J.	T. /

Personnel On-Site

Contractors On-Site

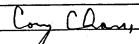
Client Personnel On-Site

Drilling Method 4 1/4" ID HSA
Air Monitoring Method PID, CGI

ì				Sample			Depth				
- 1	Depth	Sample	Sample	Туре &	Sample Description	usc s	Lithology	Air	Monitori	ng	Drilling Conditions
ı	(Feet)	Number	Interval	Recovery	Classification System: USCS	Symbol	Change	Units	PPM	<u>s</u> .	& Blow Counts
- 1				(inches)			(feet)	BZ	вн	нѕ	
					Backfill to 12!						
	5										
	10								-	-	
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	20	à	90-9 9	4′′	Br sandy SILT, vfsond, v. Lupso,			5	38	50 69	-0930
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	30				TOB 27'						
	35					,					
	40										

comments: CMC 114 (25-27) Sent to lab (BTEXTPH). Sumple bayged ticed
prior to containerization. BH groused to surface

Geologist Signature



CHAIN OF CUSTODY RECORD

		-					CONTRACT LABORATORY P. O. NUMBER	
#24324 Pit Closure Project	283		8	QUESTED	REQUESTED ANALYSIS	ļ		
SAMPLERS: (Signature) OATE:	MUN JA MIATWO	SAMPLE TYPE Ho	8020 EX	alq	PID HS	ENCE		
LABID DATE TIME MATRIX FIELD ID	O ± C	9T A93			Per		·	
947497 9/19/4,0935 SOIL CMC114	-	161	7		26	106) 25-27 Lindinh 1105(DK) 94748	748
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Jens 4/19/95/1730	1 Judi	37		(17)77)	Mille MACH	Ţį;	9/20/95 9:05 Signature	gneture)
RELINQUISHED BY: (Signature) DATE TIME NECEIVED BY: (Signature)	ognature)				(anima)		1	
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REQUESTED TURNAROUND TIME: SAMPLE RECEIPT REMARKS CARDINE ORUSH CARDINE CA	T REMARKS				E	SULTS & I	RESULTS & INVOICES TO FIELD SERVICES LABORATORY EL PASO NATURAL GAS COMPA	×
						•	P.O. BOX 4990 FARMINGTON. NEW MEXICO 87499	66
BIL NO:					<u>ਲ</u>	505-599-2144		

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



FIELD SERVICES LABORATORY ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab iD
SAMPLE NUMBER:	CMC 114	947497
MTR CODE SITE NAME:	94 748	Lindrith 110 E DK
SAMPLE DATE TIME (Hrs):	09-19-95	0935
PROJECT:	Phase II Nillin	
DATE OF TPH EXT. ANAL.:	9-20-95	
DATE OF BTEX EXT. ANAL.:	9/20/95	9/22/95
TYPE DESCRIPTION:	V6	Light brown Sand and Clay
		a

Et 14 Demodes	The second second	
Field Remarks:	 	

RESULTS

	RESULT :	UNITS		QUALIF	IERS 2	
PARAMETER			DF*	1	M(g)	V(ml)
BENZENE	< 0.5	MG/KG				
TOLUENE	4 0.5	MG/KG				
ETHYL BENZENE	< 0.5	MG/KG				
TOTAL XYLENES	< 1.5 cm	MG/KG				
TOTAL BTEX	43	MG/KG				
TPH (418.1)	312	MG/KG			1.98	28
HEADSPACE PID	26	PPM				
PERCENT SOLIDS	93.8	%	***		43	

PERCENT SOLIDS	93.8	%				
The Surrogate Recovery was at	TPH is by EPA Method	418.1 and BTEX is by EPA for this sample			tab ie.	
Varrative: ATI Results	for mod?	8015 attac	ched (18).		· :
DF = Dilution Factor Used						
Approved By:	·		Date:	9-26	- 95-	

BTEX SOIL SAMPLE WORKSHEET

· · · · · · · · · · · · · · · · · · ·			· · · · · · · · · · · · · · · · · · ·		
Fil	e :	947497	Date Printed :	9/25/95	
Soil Mas	s (g):	5.02	Multiplier (L/g) :	0.00100	
Extraction vo		10	DF (Analytical) :	200	
Shot Volum	• •	50	DF (Report) :	0.19920	
					Det. Limit
Benzene	(ug/L) :	0.00	Benzene (mg/Kg):	0.000	0.498
Toluene	(ug/L) :	0.23	Toluene (mg/Kg):	0.046	0.498
Ethylbenzene	(ug/L) :	0.14	Ethylbenzene (mg/Kg):	0.028	0.498
p & m-xylene	(ug/L) :	0.76	p & m-xylene (mg/Kg):	0.151	0.996
o-xylene	(ug/L) :	0.24	o-xylene (mg/Kg):	0.048	0.498
			Total xylenes (mg/Kg):	0.199	1.494
. ·			Total BTEX (mg/Kg):	0.273	



GAS CHROMATOGRAPHY RESULTS

TEST

: EPA 8015 MODIFIED

CLIENT

: EL PASO NATURAL GAS ATI I.D.: 509397

PROJECT #

: 24324

PROJECT NAME : PIT CLOSURE/PHASE I & II

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
04	947482	NON-AQ	09/16/95	09/28/95	09/28/95	1
05	947494	NON-AQ	09/19/95	09/28/95	09/29/95	10
06	947497	NON-AQ	09/19/95	09/28/95	09/28/95	1
PARAME	TER	-,,	UNITS	04	05	06
FUEL H	YDROCARBONS		MG/KG	42	4800	98
HYDROC	ARBON RANGE			C9-C32	C6-C14	C10-C36
HYDROC	ARBONS QUANTITA	TED USING		DIESEL	GASOLINE	DIESEL
SURROG	ATE:		•			
O-TERP	HENYL (%)			80	74	93