District 1
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 Office (Revised 3/9/94)

PIT REMEDIATION AND CLOSURE REPORT

	11 12 13	147
Operator: Conoco Mesa Operating Address: 30 039 07412	Telephone	17/3/6/3
Address: 30-039-67412	CO DEC AUGUST	
Facility Or: San Juan 28-7 Unit 75, Meter 02376 Well Name		20192
Location: Unit or Qtr/Qtr Sec_L Sec_15_T	28 R 7 County Rio A	Arriba
Pit Type: Separator Dehydrator X	Other	
Land Type: BLM, State, Fee	Other Federal	
Pit Location: Pit dimensions: length <u>28'</u> , width (Attach diagram) Reference: wellhead <u>X</u> , other		
Footage from reference: 69'		
Direction from reference: <u>150</u> Degr	rees X East North	
Direction from reference:150_ Degr	of	 uth
Depth To Ground Water	of	
Depth To Ground Water (Vertical distance from	Less than 50 feet 50 feet to 99 feet	uth
Depth To Ground Water (Vertical distance from contaminants to seasonal	of West Soil Less than 50 feet	uth(20 points)
Depth To Ground Water (Vertical distance from contaminants to seasonal high water elevation of	Less than 50 feet 50 feet to 99 feet	(20 points) (10 points)
Depth To Ground Water (Vertical distance from contaminants to seasonal	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 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 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	(20 points) (10 points) (0 points)10_ s (20 points) o (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	Less than 50 feet 50 feet to 99 feet Greater than 100 feet Yes	(20 points) (10 points) (0 points)10_ s (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.) Distance To Surface Water:	Less than 50 feet 50 feet to 99 feet Greater than 100 feet Yes No	(20 points) (10 points) (0 points)10_ s (20 points) o (0 points)0

Date Remediation Started: _	06/13/94 Date completed: 06/14/94
Remediation Method: Exc	avation X Approx. cubic yards 30
(Check all appropriate sections.) Lan	dfarmed Insitu Bioremediation
Otho	er
·	
Remediation Location: Ons (i.e. landfarmed onsite, name and location of offsite facility)	oite Offsite
General Description of Remo	edial Action: Remediated pit to 4', hit hard sandstone. Took VC sample. Meter reading
Was 202 ppm at 85 degrees	Could not complete backfilling pit. Held sample over one night. Will backfill tomorrow
And turn in sample with 6/14	1/94 samples. Cooler temp. was 35 degrees. I checked before I left and this morn.
Ground Water Encountered:	No X Yes Depth
Final Pit:	Sample location Four walls and center of pit composite
Closure Sampling: (if multiple samples,	
attach sample results and diagram of sample	Sample depth 4'
locations and depths)	Sample Date06/13/94 Sample time16:20
	Sample Results
	Benzene(ppm)
	Total BTEX(ppm)_23
	Field headspace(ppm) 202
	TPH <u>39600</u>
Ground Water Sample:	Yes No X (If yes, attach sample results)
I hereby certify that the information	mation above is true and complete to the best of my knowledge and belief.
Date 1/8/0 20	
Signature Second	Printed Name Scott T. Pope and Title Senion ENV. Scientist



San Juan 28-7 Unit 75 Meter/Line ID 02376

SITE DETAILS

Rng: 7W Legals - Twn: 28N

Sec: 15 Land Type: Federal

NMOCD Hazard Ranking: 10 Operator: Conoco Mesa Operating

Pit Closure Date: 6/14/94

Unit: I



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 4 feet (ft) below ground surface (bgs) where sandstone was encountered and a soil sample was collected for field headspace analysis and laboratory analysis for TPH and BTEX. Groundwater was not encountered in the test pit. Headspace analysis indicated an organic vapor content of 202 ppm; laboratory analysis indicated a benzene concentration of 0.42 mg/kg, a total BTEX concentration of 23 mg/kg, and a TPH concentration 39,600 mg/kg. The headspace analysis and TPH measurement exceeded recommended remediation levels for the Hazard Ranking Score of 10.

Approximately 30 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 refusal at 17 ft bgs. No groundwater was encountered in the soil boring. One laboratory sample was collected at 16-17 ft bgs. Headspace analysis indicated an organic vapor content of 7 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 311 mg/kg. The benzene, 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 production pit location for the following reasons:

- The primary source, discharge to the pit, has been removed for over eight years.
- Bedrock was encountered at 4 feet bgs making additional excavation 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.
- Groundwater was not encountered in the soil boring to 17 ft bgs.
- There are no water supply wells or other sources of fresh water extraction within 1,000 feet of the site.
- Benzene and BTEX were non-detect at the base of the Phase II soil boring.



PIT CLOSURE REQUEST

- The TPH concentrations at the bottom of the Phase II boring are less than 1 percent of the concentration at 4 ft bgs, and below NMOCD standards, indicating that residual hydrocarbons are degrading by natural attenuation with minimal risk to the environment.
- The majority of the impacted soils have been removed. Residual hydrocarbons in soil will likely degrade by natural attenuation with minimal risk to human health and the environment.

ATTACHMENTS

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

FIELD PIT SITE ASSESSMENT FORM

GENERAL	Meter: 0237b Location: San Jam 28-7 Vit 75 Operator #: 0203 Operator Name: Amoro P/L District: Blanco Coordinates: Letter: Section 15 Township: 28 Range: 7 Or Latitude Longitude Pit Type: Dehydrator Location Drip: Line Drip: Other: Site Assessment Date: b/2/94 Area: 03 Run: 41
SITE ASSESSMENT	NMOCD Zone: (From NMOCD Maps) Inside Outside Outside Depth to Groundwater Less Than 50 Feet (20 points) 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 domestic water source? 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 (5urface 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: 4D POINTS
REMARKS	Remarks: Redline-NA, Vuln-INSIDE. Site was not on either map Location was estimated using closest well. 2pits. Close Pit Dry Coil stained) 01(2+HAUL

REVISED FIELD PIT SITE ASSESSMENT FORM

GENERAL	Meter: 02376 Location: San June 28-7 Unit 75 Operator #: 0203 Operator Name: Amoco P/L District: Slanco Coordinates: Letter L Section 15 Township: 28 Range: 7 or Latitude Longitude Pit Type: Dehydrator X Location Drip: Line Drip: Other: Site Assessment Date: 6/2/94 Area: 03 Run: 4// Revised Date:
	NMOCD Zone: (from NMCOD Maps) Land Type: BLM (1) State (2)
	Intside \boxtimes (1) Fee \square (3) Outside \square (2) Indian
	Depth to Groundwater Less than 50 Feet (20 points) 50 Feet to 99 Feet (10 Points) Greater than 100 Feet (0 Points) (1) (2) (3)
ASSESSIMENT	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 CARRIZO CREEK (CANYON)
	(Surface Water Body: Perennial River, Stream, Creek, Irrigation Canal, Ditch, Lake, Pond)
	Distance to Nearest Ephemeral Stream \square (1) < 100 feet (Navajo Pits Only) \square (2) > 100 feet
	TOTAL HAZARD RANKING SCOREPOINTS
REMARKS	Remarks: Revisus BASED ON RE ASSESSMENT OF DEPTH to Coundrales and Distance to NEMEST SURFACE MAKE 15004

FIET PIT REMEDIATION/CLOSUTE FORM

GENERAL	Meter: 62376 Location: San fuan 28-7 wn 75 Coordinates: Letter: 1 Section 15 Township: 28 Range: 7 Or Latitude Longitude Date Started: 6/13/94 Area: 03 Run: 4/
RIELD OBSERVATIONS	Sample Number(s): #35 Sample Depth: # Feet Final PID Reading 202 ppm PID Reading Depth # Feet Yes No Groundwater Encountered (1) (2) Approximate Depth Feet
TOTION	Buckini i it without Exoduction in (6)
DATE STATE	Remarks: Remediated pit to 4ft, hit hard sand stone. Took VC Sample, meter reading was 202 ppm at 85° could not complete backfilling pit Held sampler over one nite. Will backfill tommorrow and turn in sample with 6/14/99 Samples. Couler temp. was 35° I checked before I left and significant of Specialist: James & J



FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT - Soil

SAMPLE IDENTIFICATION

·	Field ID	Lab ID
SAMPLE NUMBER:	JP3s	वर्गड नेये प्
MTR CODE SITE NAME:	02374	N/A
SAMPLE DATE TIME (Hrs):	6-13-94	1620
SAMPLED BY:	N	/A
DATE OF TPH EXT. ANAL.:	6/16/94	611694
DATE OF BTEX EXT. ANAL.:	617194	6120194
TYPE DESCRIPTION:	VC	Gren Sand
		<u></u>

R	C۲	м	Λ	0	ľ	c	
"	L	¥.	_	,,	n	v	•

RESULTS

PARAMETER	RESULT	UNITS: "		©(UALIFII	ris	
			DF	0.0	M(g)	- V(ml)
BENZENE	0.42	MG/KG	5			
TOLUENE	11	MG/KG	5			
ETHYL BENZENE	0.82	MG/KG	5			
TOTAL XYLENES	11	MG/KG	5			
TOTAL BTEX	23	MG/KG				·
TPH (418.1)	39,600	MG/KG			0,20	28
HEADSPACE PID	202	PPM				
PERCENT SOLIDS	90.6	%				

rrogate Recovery was at 63 the globy % for this sample All QA/QC was acceptable.

ATI results attached. Surrogate recovery was outside

ATI QC limits due to matrix lin terferende.

PF = Dilution Factor Used

Innroved By:

Hotal D. L.s O.

.... Nosai





GAS CHROMATOGRAPHY RESULTS

TEST

: BTEX (EPA 8020)

CLIENT

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

406367

PROJECT #

: 24324

PROJECT NAME : PIT CLOSURE

SAMPLE ID. # CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
04 945436	NON-AQ	06/13/94	06/17/94	06/20/94	1
05 945444	NON-AQ	06/13/94	06/17/94	06/20/94	5
06 945445	NON-AQ	06/14/94	06/17/94	06/20/94	10
PARAMETER	***************************************	UNITS	04	05	06
BENZENE		MG/KG	0.10	0.42	<0.25
TOLUENE		MG/KG	0.55	11	<0.25
THYLBENZENE		MG/KG	1.7	0.82	1.9
TOTAL XYLENES		MG/KG	42 D5	11	32
SURROGATE:					
BROMOFLUOROBENZENE (%)			90	63*	56*

D5=DILUTED 5X, ANALYZED 06/21/94 *OUTSIDE ATI QUALITY CONTROL LIMITS DUE TO MATRIX INTERFERENCE



CHAIN OF CUSTODY RECORD

Page-

RECEIVED OF LABORATORY BY: (Signature) sandstone at 4ft EL PASO NATURAL GAS COMPANY P. O. BOX 4990 FARMINGTON, NEW MEXICO 87499 FAX: 505-599-2261 FIELD SERVICES LABORATORY RECEIVED BY: (Signature) sample overnite 14mm/4 REMARKS CONT. ACT LABORATORY P. O. NUMBER DATE/TIME 26 3 200 Held RESULTS & INVOICES TO: يتوم ه 3 REQUESTED ANALYSIS BTEX EPA 8020 × × FPA 418.1 X HQT ノン ノ SAMPLE SAMPLE RECEIPT REMARKS TOTAL NUMBER OF CONTAINERS (ED BY: (Signature) CHARGE CODE SAMPLE NUMBER PROJECT NAME
PIT Closure Project # 24324 TIME MATRIX 1.62 OE11 KAHA! 113 Hr 1620 Soll REQUESTED TURNAROUND TIME: RELINQUISHED BY: (Signature) O RUSH DATE THE STATE SAMPLERS: (Signature PROJECT NUMBER O ROUTINE CARRIER CO. ZBBD 54/4 5445 BILL NO.:

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

FM-08-0565A (Rev. 03-94)

RECORD OF SUBSURFACE EXPLORATION

Burlington Environmental Inc.

4000 Monroe Road

Farmington, New Mexico 87401

(505) 326-2262 FAX (505) 326-2388

Elevation

Borehole Location OL-5/5-728-R7

GWL Depth

Logged By

Phillip Moss

Drilled By

4 Padell

Date/Time Started

ted $\frac{q-7-95}{2-7-65}$

Date/Time Completed 9-7-9

Borehole # B

BH-1

Page j

of /

Project Name

Project Number Project Location EPNG PITS

14509

Phase 6000.77

Well Logged By

Personnel On-Site
Contractors On-Site

Phillip Moss

t. Padolla, F. River, D. Charle, P.

Client Personnel On-Site

4 1/4 I.D. HSA

Drilling Method 4

PID, CGI

Depth (Feet)	Sample Number	Sample Interval	Sample Type & Recovery (inches)	Sample Description Classification System: USCS	USCS Symbol	Depth Lithology Change (feet)		ir Monito Unita: PP BH	-	Drilling Conditions & Blow Courts	
10	2	5-7' 10-12'	\$\$ 6" \$\$	Backfill to 4. Sandstone, f.g., grayish green, poorly-cemented, hydrocarbon odor II'- prudstone, grayish brown, lamated, poorly-cemented, no odor. Sandstone, brown, f.g., poorly-cemented, no odor. (emented, no odor. 17' TO		14-	c Zs			- 11:27 - 11:36 - 11:51	
25 30 35 35											

Comments:

PL178 sent to lob (BTEX, TPH). Sumple hanged

Geologist Signature

Philip I Mon

CHAIN OF CUSTODY RECORD

١ă	PROJECT NUMBER	PROJECT NAME	NAME			ļ ;	 		RECHESTED ANALYSIS	D ANALYSI	y.	CONTIACT LA	CONT. ACT LABORATORY P. O. NUMBER	IMBER
		Pit C	osnre	Pit Closure Project # 24324	124	#38 8#3			שרמסרמיי					
Ē	SAMPLERS: Kilightung	1	Mar	DATE	Sb/t/6	IMUN JA NIATNO	BAYY BAYY		8020					
1 9	LABID DATE	TIME		SAMPLE NUMBER	UMBER	\tot 3 ₹0		9T A93	та А ч Э	- U	1925 1925	Ŧ		REMARKS
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lg &	REQUESTED TURNAROUND TIME:	NAROUND TIME			SAMPLE RECEIPT REMARKS	EMARKS					RESULTS &	RESULTS & INVOICES TO: FIEL	D SERVIC	FIELD SERVICES LABORATORY
12	CARRIER CO.											P. C.	ASO NAT BOX 499	EL PASO NATURAL GAS COMPANY P. O. BOX 4990
Ę	BILL NO.:			٠.	CHARGE CODE						505-599-2144			I, NEW WEATIOU 87499 FAX: 505-599-2261
1			40,0000	solution of the Secondary										



FIELD SERVICES LABORATORY ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	PLM8	947420
MTR CODE SITE NAME:	02376	Sa-Juan 28-7 Un:+75
SAMPLE DATE TIME (Hrs):	09-07-95	1157
PROJECT:	Phasett Drilling	
DATE OF TPH EXT. ANAL.:	9-2-95	
DATE OF BTEX EXT. ANAL.:	9/8/95	9/12/95
TYPE DESCRIPTION:	VG	LIGHT BROWN JANDYCLAY

rielo nemarks:	

RESULTS

PARAMETER	RESULT	UNITS	DF	QUALIFIE Q	RS M(g)	V(ml)
BENZENE	4 0.5	MG/KG				
TOLUENE	< 0.5	MG/KG				
ETHYL BENZENE	4 0.5	MG/KG				
TOTAL XYLENES	4 1.5	MG/KG				
TOTAL BTEX	4 3	MG/KG				
TPH (418.1)	3//	MG/KG			2.02	28
HEADSPACE PID	7	PPM				
PERCENT SOLIDS	93.4	%				

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

he Surrogate Recovery was at

for this sample All QA/QC was acceptable.

Narrative:

DF = Dilution Factor Used

9-13-95-

BTEX SOIL SAMPLE WORKSHEET

File Soil Mass Extraction vol Shot Volume	s (g): l. (mL):	947420 5.06 20 100	Date Printed Multiplier (L/g) DF (Analytical) DF (Report)	9/13/950.000992000.19763	
·				Det. Limit	t
Benzene	(ug/L) :	0.00	Benzene (mg/Kg)	: 0.000 0.494	ţ
Toluene	(ug/L) :	0.00	Toluene (mg/Kg)	: 0.000 0.494	1
Ethylbenzene	(ug/L) :	0.00	Ethylbenzene (mg/Kg)	: 0.000 0.494	1
p & m-xylene	(ug/L) :	0.00	p & m-xylene (mg/Kg): 0.000 0.988	3
o-xylene	(ug/L) :	0.00	o-xylene (mg/Kg		
			Total xylenes (mg/Kg): 0.000 1.482	2
			Total BTEX (mg/Kg): 0.000	