

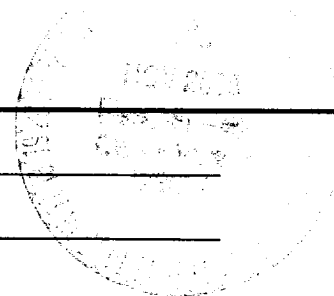
State of New Mexico
Energy, Minerals and Natural Resources Department

Oil Conservation Division
2040 S. PACHECO
Santa Fe, New Mexico 87505

Submit 1 copy to
Natural Resource Dept.
and Oil & Gas Administration

*OK
note
sample
Headspace*

PIT REMEDIATION AND CLOSURE REPORT



Operator: Apache Corporation Telephone 505-325-0318

Address: 2855 Southside River Road, Suite A, Farmington, NM 87401

Facility or Well Name: JAT 358 #1

Location: Unit or Qtr/Qtr Sec SW/SW Sec 6 T 22N R 2W County SANDOVAL

Pit Type: Separator: _____ Dehydrator _____ Other BLOW PIT

Land Type: JIC. TRIBAL

Beginning Pit Dimensions: Length 35' Width 35' Depth 8'

Pit Location: Ending Pit Dimensions: Length 35' Width 35' Depth 8'

(Attach diagram)

Reference: Wellhead XXX Other _____

Footage from reference: 150'

Direction from reference: 130 Degrees _____ East of _____ North _____
_____ West _____ South X

Depth To Groundwater: (vertical distance from contaminants to seasonal high water elevation of groundwater)	Less than 50 feet 50 feet to 99 feet Greater than 100 feet	(20 points) _____ (10 points) _____ (0 points) <u>0</u>
Distance to an Ephemeral Stream: (Downgradient dry wash greater than ten feet in width)	Less than 100 feet Greater than 100 feet	(10 points) _____ (0 points) <u>0</u>
Distance to Nearest Lake, Playa, or Watering Pond: (Downgradient lakes, playas and livestock or wildlife watering ponds)	Less than 100 feet Greater than 100 feet	(10 points) _____ (0 points) <u>0</u>
Wellhead Protection Area: (Less than 200 feet from a private domestic water source, or less than 1000 feet from all other water sources)	Yes No	(20 points) _____ (0 points) <u>0</u>
Distance To Surface Water: (Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)	Less than 100 feet 100 feet to 1000 feet Greater than 1000 feet	(20 points) _____ (10 points) _____ (0 points) <u>0</u>
RANKING SCORE (TOTAL POINTS)		<u>0</u>

Date Remediation Started: 11/19/1999 Date Completed: 09/21/2000

Remediation Method: Excavation _____ Approx. cubic yards _____
(Check all appropriate sections) Landfarmed _____ Insitu Bioremediation _____

Other Core sample 4' below pit bottom center, composite core sample
4' below pit bottom corners

Remediation Location: Onsite XX Offsite _____
(i.e. landfarmed onsite, name and location of offsite facility)

General Description of Remedial Action: NONE REQUIRED, CONTAMINATION BELOW CLOSURE LIMIT

9/21/00 BACKFILLED AND RESEEDED

Groundwater Encountered: No XXX Yes _____ Depth _____

Final Pit: Sample location Core sample 4' below pit bottom center, 4 points composite sample of pit corner

Closure Sampling: (in multiple samples, attach sample results and diagram of sample locations and depths) Sample depth CORE SAMPLE 4' BELOW PIT BOTTOM.

Sample Date 11/19/1999 Sample Time 1:15PM, 1:30PM
Sample results corner/center

Soil:	Benzene	(ppm)	<u>.006/ND</u>	Water:	Benzene	(ppb)	<u>NA</u>
	Total BTEX	(ppm)	<u>0.06/ND</u>		Toluene	(ppb)	<u>NA</u>
	Field Headspace	(ppm)	<u>ND/ND</u>		Ethylbenzene	(ppb)	<u>NA</u>
	TPH	(ppm)	<u>ND/ND</u>		Total Xylenes	(ppb)	<u>NA</u>

Groundwater Sample: Yes _____ No XXX (If yes attach sample results)

I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF.

DATE 11-22-00 PRINTED NAME Jeff Cross

SIGNATURE Jeff Cross AND TITLE Project Manager

JICARILLA APACHE TRIBE
 ENVIRONMENTAL PROTECTION OFFICE
 P. O. BOX 507
 DULCE, NEW MEXICO 87528

Submit 1 copy to
 Natural Resource Dept.
 and Oil & Gas Administration

PIT REMEDIATION AND CLOSURE REPORT

Operator: <u>APACHE CORPORATION</u> Telephone <u>505-325-0318</u>							
Address: <u>2855 SOUTH SIDE RIVER ROAD FARMINGTON N.M. 87401</u>							
Facility or Well Name: <u>JAT 358#1</u>							
Location: Unit or Qtr/Qtr Sec <u>SWSW SEC 6</u> T <u>22N</u> R <u>2W</u> County <u>SANDOVAL</u>							
Pit Type: Separator: _____ Dehydrator _____ Other <u>BLOW PIT</u>							
Land Type: <u>JIC. TRIBAL</u>							
Pit Location: Pit Dimensions: Length <u>35'</u> Width <u>35'</u> Depth <u>8'</u> (Attach diagram)							
Reference: Wellhead <u>XXX</u> Other _____							
Footage from reference: <u>150'</u>							
Direction from reference: <u>130°</u> Degrees _____ East _____ North _____ _____ West _____ South <u>X</u>							
Depth To Groundwater: (vertical distance from contaminants to seasonal high water elevation of groundwater)	<table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%;">Less than 50 feet</td> <td style="width:50%;">(20 points) _____</td> </tr> <tr> <td>50 feet to 99 feet</td> <td>(10 points) _____</td> </tr> <tr> <td>Greater than 100 feet</td> <td>(0 points) <u>0</u></td> </tr> </table>	Less than 50 feet	(20 points) _____	50 feet to 99 feet	(10 points) _____	Greater than 100 feet	(0 points) <u>0</u>
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	No (0 points) <u>0</u>						
Distance To Surface Water: (Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)	<table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%;">Less than 100 feet</td> <td style="width:50%;">(20 points) _____</td> </tr> <tr> <td>100 feet to 1000 feet</td> <td>(10 points) _____</td> </tr> <tr> <td>Greater than 1000 feet</td> <td>(0 points) <u>0</u></td> </tr> </table>	Less than 100 feet	(20 points) _____	100 feet to 1000 feet	(10 points) _____	Greater than 1000 feet	(0 points) <u>0</u>
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100 feet to 1000 feet	(10 points) _____						
Greater than 1000 feet	(0 points) <u>0</u>						
RANKING SCORE (TOTAL POINTS) <u>0</u>							

Date Remediation Started: 11/19/99 Date Completed: 9-21-00

Remediation Method: Excavation _____ Approx. cubic yards _____
(Check all appropriate sections) Landfarmed _____ Insitu Bioremediation _____

Other Core sample 4' below pit bottom center, composite core sample 4' below pit bottom corners.

Remediation Location: Onsite XX Offsite _____
(i.e. landfarmed onsite, name and location of offsite facility)

General Description of Remedial Action: NONE Required, Pit To Be Backfilled and Reseeded. Contamination Below Closure Limits 9-21-00 Back Fill P.T and Reseed

Groundwater Encountered: No XXX Yes _____ Depth _____

Final Pit: Sample location core sample 4' below pit bottom center, 4 point composite sample of pit bottom corners.

Closure Sampling: (in multiple samples, attach sample results and diagram of sample locations and depths) Sample depth CORE SAMPLE 4' BELOW PIT BOTTOM.

Sample Date 11/19/99 Sample Time: 1:15pm, 1:30pm

Soil:	Benzene	(ppm) <u>0.06/ND</u>	corners/center	Water:	Benzene	(ppb)	<u>NA</u>
	Total BTEX	(ppm) <u>0.06/ND</u>			Toluene	(ppb)	<u>NA</u>
	Field Headspace	(ppm) <u>ND/ND</u>			Ethylbenzene	(ppb)	<u>NA</u>
	TPH	(ppm) <u>ND/ND</u>			Total Xylenes	(ppb)	<u>NA</u>

Groundwater Sample: Yes _____ No XXX (If yes attach sample results)

I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF.

DATE 9-21-2000 ^{JL.} PRINTED NAME JEFF CROSS

SIGNATURE Jeff Cross AND TITLE PROJECT MANAGER

AFTER REVIEW OF THE PIT CLOSURE INFORMATION, PIT CLOSURE IS APPROVED IN ACCORDANCE TO THE JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE.

APPROVED: YES _____ NO _____ (REASON) _____

SIGNED: _____ DATE: _____

Pit Impact Rating Sheet

Well Name: JAT 358 # 1
 Well Location: SW/SW SEC 6 T 22 N R 2 W
 Number of Pits at Location: 1
 Pit Number and Usage: BLOW PIT
 Estimated Elevation: 7350'
 Estimated Groundwater Elevation: _____
 Vulnerable Area: YES _____ NO XX
 Fluid in Pits: YES _____ NO XX
 % Water: 0
 % Oil: 0
 Visual Soil Contamination:
 Highly Contamination/Saturated Soils: NONE
 Unsaturated Contamination (Odor or PID Reading): _____ ND
 Suspected Groundwater Contamination: NO _____ XX YES _____
 Reason for Suspicion: _____

RATING:

<p>Depth to Groundwater:</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;"><u>< 50'</u></td> <td style="width: 20%; text-align: center;"><u>20</u></td> <td style="width: 50%;"></td> </tr> <tr> <td><u>50' - 99'</u></td> <td style="text-align: center;"><u>10</u></td> <td></td> </tr> <tr> <td><u>> 100'</u></td> <td style="text-align: center;"><u>0</u></td> <td></td> </tr> <tr> <td style="text-align: right;">Rating</td> <td style="text-align: center; border-top: 1px solid black;"><u>0</u></td> <td></td> </tr> </table>	<u>< 50'</u>	<u>20</u>		<u>50' - 99'</u>	<u>10</u>		<u>> 100'</u>	<u>0</u>		Rating	<u>0</u>		<p>Wellhead Protection Area:</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;"><u>< 1000' from water source, or</u></td> <td style="width: 20%;"></td> <td style="width: 50%;"></td> </tr> <tr> <td><u><200' from a domestic source?</u></td> <td></td> <td></td> </tr> <tr> <td style="text-align: right;">Yes</td> <td></td> <td style="text-align: right;"><u>20</u></td> </tr> <tr> <td style="text-align: right;">No</td> <td></td> <td style="text-align: right;"><u>0</u></td> </tr> <tr> <td style="text-align: right;">Rating</td> <td></td> <td style="text-align: right; border-top: 1px solid black;"><u>0</u></td> </tr> </table>	<u>< 1000' from water source, or</u>			<u><200' from a domestic source?</u>			Yes		<u>20</u>	No		<u>0</u>	Rating		<u>0</u>
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<p>Distance to Surface Water:</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;"><u>< 200' horizontal feet</u></td> <td style="width: 20%; text-align: center;"><u>20</u></td> <td style="width: 50%;"></td> </tr> <tr> <td><u>200' - 1000' horizontal feet</u></td> <td style="text-align: center;"><u>10</u></td> <td></td> </tr> <tr> <td><u>> 1000' horizontal feet</u></td> <td style="text-align: center;"><u>0</u></td> <td></td> </tr> <tr> <td style="text-align: right;">Rating</td> <td style="text-align: center; border-top: 1px solid black;"><u>0</u></td> <td></td> </tr> </table>	<u>< 200' horizontal feet</u>	<u>20</u>		<u>200' - 1000' horizontal feet</u>	<u>10</u>		<u>> 1000' horizontal feet</u>	<u>0</u>		Rating	<u>0</u>		<p>Distance to Ephemeral stream > 10 feet width</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;"><u>< 100' horizontal feet</u></td> <td style="width: 20%; text-align: center;"><u>Yes</u></td> <td style="width: 50%; text-align: right;"><u>10</u></td> </tr> <tr> <td><u>> 100' horizontal feet</u></td> <td style="text-align: center;"><u>No</u></td> <td style="text-align: right;"><u>0</u></td> </tr> <tr> <td style="text-align: right;">Rating</td> <td></td> <td style="text-align: right; border-top: 1px solid black;"><u>0</u></td> </tr> </table> <p>Distance to Lake, Playa or Watering Pond</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;"><u>< 100' horizontal feet</u></td> <td style="width: 20%; text-align: center;"><u>Yes</u></td> <td style="width: 50%; text-align: right;"><u>10</u></td> </tr> <tr> <td><u>> 100' horizontal feet</u></td> <td style="text-align: center;"><u>No</u></td> <td style="text-align: right;"><u>0</u></td> </tr> <tr> <td style="text-align: right;">Rating</td> <td></td> <td style="text-align: right; border-top: 1px solid black;"><u>0</u></td> </tr> </table>	<u>< 100' horizontal feet</u>	<u>Yes</u>	<u>10</u>	<u>> 100' horizontal feet</u>	<u>No</u>	<u>0</u>	Rating		<u>0</u>	<u>< 100' horizontal feet</u>	<u>Yes</u>	<u>10</u>	<u>> 100' horizontal feet</u>	<u>No</u>	<u>0</u>	Rating		<u>0</u>
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Rating		<u>0</u>																													

FINAL SOIL REMEDIATION STANDARDS: Total Rating 0

TPH: 5000 ppm
 Benzene: 10 ppm
 BTEX: 50 ppm

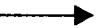
KNOWN ANALYSIS:

Soil:	TPH: <u>ND</u> ppm	Benzene: <u>0.006</u> ppm	BTEX: <u>0.06</u> ppm
Groundwater:	TPH: <u>NA</u> ppm	Benzene: <u>NA</u> ppm	BTEX: <u>NA</u> ppm

PROBABLE SOIL REMEDIATION TECHNIQUE:

Bioremediation: On-Site _____
 Composting: _____
 Disposal: Facility Name _____
 Thermal Desorption: _____
 Soil Venting: _____
 Other: _____

JAT 358 # 1
SW/SW (M) SEC 6 T22N R2W
SANDOVAL, COUNTY N.M.



NORTH



DRAINAGE

METER RUN



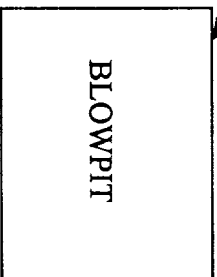
WELLHEAD



150'



BLOWPIT



35' X 35' X 8'

APACHE CORPORATION/FARMINGTON DISTRICT PIT EXCAVATION AND CLOSURE REPORT

LOCATION JAT 358 # 1

PIT COUNT 1

START				FINISH				
DIMENSIONS								CU YDS
	L	W	D		L	W	D	
Pit 1	35'	35'	8'	Pit 1				
Pit 2				Pit 2				
Pit 3				Pit 3				
DATE:	11/19/99	Pit 1 @ 12'	Pit 2 @	Pit 3 @	Date:	Pit 1 @	Pit 2 @	Pit 3 @
P	Center	ND			P	Center		
I	NW Corner	ND			I	NW Corner		
D	NE Corner	ND			D	NE Corner		
	SW Corner	ND				SW Corner		
	SE Corner	ND				SE Corner		

NOTE PIT SHOWS NO VISIABLE STAINING , OVERGROWN WITH SAGEBRUSH.

11/19/99 TOOK ONE CORE SAMPLE 4' BELOW PIT BOTTOM CENTER, PID READINGS ND.
NO VISIABLE STAINING OR ODOR.

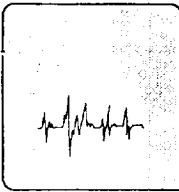
11/19/99 TOOK 4 POINT COMPOSITE CORE SAMPLE 4' BELOW PIT BOTTOM CORNERS.
PID READINGS ON NE,SW AND SE CORNERS ND. WITH NO VISIABLE STAINING OR ODOR.
PID READING ON NW CORNER WAS 459 PPM @ 1.5', 45PPM @ 3', ND @ 4', WITH NO STAINING AT ANY DEPTH.
WITH LIGHT ODOR.

HIT SANDSTONE (BEDROCK AT 3' BELOW PIT BOTTOM)

DATE		11/19/99			SOIL SAMPLING				
		Pit 1 @ 12'	Pit 2 @	Pit 3 @	ANALYSIS RESULTS			PER LAB	Assaigai
P	Center	ND			PIT	TPH	BETEX	WITNESS	DATE
I	NW Corner	ND			NO	SIDE/BTM	SIDE/BTM		
D	NE Corner	ND			1	ND/ND	006/ND	J.C.	11/19/99
	SW Corner	ND			2				
	SE Corner	ND			3				

RE-SAMPLE									
DATE:		Pit 1 @	Pit 2 @	Pit 3 @	ANALYSIS RESULTS			PER LAB	
P	Center				PIT	TPH	BETEX	WITNESS	DATE
I	NW Corner				NO	SIDE/BTM	SIDE/BTM		
D	NE Corner				1				
	SW Corner				2				
	SE Corner				3				

RE-SAMPLE									
DATE:		Pit 1 @	Pit 2 @	Pit 3 @	ANALYSIS RESULTS			PER LAB	
P	Center				PIT	TPH	BETEX	WITNESS	DATE
I	NW Corner				NO	SIDE/BTM	SIDE/BTM		
D	NE Corner				1				
	SW Corner				2				
	SE Corner				3				



**ASSAIGAI
ANALYTICAL
LABORATORIES, INC.**

7300 Jefferson, NE • Albuquerque, New Mexico 87109 • (505) 345-8964 • FAX (505) 345-7259

3332 Wedgewood Dr., Suite N • El Paso, Texas 79925 • (915) 593-6000 • FAX (915) 593-7820

127 Eastgate Drive, 212-C • Los Alamos, New Mexico 87544 • (505) 662-2558

Explanation of codes

B	analyte detected in Method Blank
E	result is estimated
H	analyzed out of hold time
N	tentatively identified compound
S	subcontracted
1-9	see footnote

APACHE CORPORATION
attn: **JEFF CROSS**
2855 SOUTHSIDE RIVER RD STE A
FARMINGTON, NM 87401-7947

Assaigai Analytical Laboratories, Inc.
Certificate of Analysis

Client: **APACHE CORPORATION**
Project: **9911227 JIC. PIT REMEDIATION**

William P. Biava
William P. Biava, President of Assaigai Analytical Laboratories, Inc.

Client Sample ID **JAT358#1PIT SIDES** Sample Matrix **SOIL** Sample Collected **11/19/99 13:15:00**

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Run Date
9911227-01A SW846 5030A/8021B Purgeable VOCs by GC/PID									
X99383	XG.1999.993-20	71-43-2	Benzene	0.006	mg / Kg	1	0.005	1	11/24/99
X99383	XG.1999.993-20	100-41-4	Ethylbenzene	ND	mg / Kg	1	0.005	1	11/24/99
X99383	XG.1999.993-20	95-47-6	o-Xylene	0.006	mg / Kg	1	0.005	1	11/24/99
X99383	XG.1999.993-20		p/m-Xylenes	0.018	mg / Kg	1	0.01	1	11/24/99
X99383	XG.1999.993-20	108-88-3	Toluene	0.030	mg / Kg	1	0.005	1	11/24/99

9911227-01A SW846 ME/8015A Diesel Range Organics by GC/FID									
X99388	XG.1999.1002-25		Diesel Range Organics	ND	mg / Kg	1	25		11/30/99

Client Sample ID **JAT358#1 PIT CENTER** Sample Matrix **SOIL** Sample Collected **11/19/99 13:35:00**

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Run Date
9911227-02A SW846 5030A/8021B Purgeable VOCs by GC/PID									
X99383	XG.1999.993-21	71-43-2	Benzene	ND	mg / Kg	1	0.005	1	11/24/99
X99383	XG.1999.993-21	100-41-4	Ethylbenzene	ND	mg / Kg	1	0.005	1	11/24/99
X99383	XG.1999.993-21	95-47-6	o-Xylene	ND	mg / Kg	1	0.005	1	11/24/99
X99383	XG.1999.993-21		p/m-Xylenes	ND	mg / Kg	1	0.01	1	11/24/99
X99383	XG.1999.993-21	108-88-3	Toluene	ND	mg / Kg	1	0.005	1	11/24/99



Assalgal Analytical Laboratories, Inc.
Certificate of Analysis

Client: **APACHE CORPORATION**
Project: **9911227 JIC. PIT REMEDIATION**

9911227-02A	SW846 ME/8015A Diesel Range Organics by GC/FID								
X99388	XG.1999.1002-26	Diesel Range Organics	ND	mg / Kg	1	25			11/30/99

*** Sample specific Detection Limit is determined by multiplying the sample Dilution Factor by the listed Reporting Detection Limit. ***

*** ND = Not detected: less than the sample specific Detection Limit. Results relate only to the items tested. ***

footnote 1 Sample was received with headspace.

memo Please note that the cooler was received at a temperature greater than 4 degrees C.

