

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 #9

Location: Unit or Qtr/Qtr Sec NE/SW Sec 8 T 22N R 2W County SANDOVAL

Pit Type: Separator: _____ Dehydrator _____ Other BLOW PIT

Land Type: JIC. TRIBAL

Pit Location: Beginning Pit Dimensions: Length 50' Width 50' Depth 5'
(Attach diagram) Ending Pit Dimensions: Length 50' Width 50' Depth 5'

Reference: Wellhead XXX Other _____

Footage from reference: 175'

Direction from reference: 280 Degrees _____ East of North _____
X _____ West South _____

Depth To Groundwater: 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) 0
high water elevation of groundwater)

Distance to an Ephemeral Stream: Less than 100 feet (10 points) _____
(Downgradient dry wash greater than Greater than 100 feet (0 points) 0
ten feet in width)

Distance to Nearest Lake, Playa, or Watering Pond: Less than 100 feet (10 points) _____
(Downgradient lakes, playas and Greater than 100 feet (0 points) 0
livestock or wildlife watering ponds)

Wellhead Protection Area: Yes (20 points) _____
(Less than 200 feet from a private No (0 points) 0
domestic water source, or less than 1000 feet from all other water sources)

Distance To Surface Water: Less than 100 feet (20 points) _____
(Horizontal distance to perennial 100 feet to 1000 feet (10 points) _____
lakes, ponds, rivers, streams, creeks, Greater than 1000 feet (0 points) 0
irrigation canals and ditches)

RANKING SCORE (TOTAL POINTS) 0

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

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, NO CONTAMINATION DETECTED
9/19/00 BACKFILLED AND RESEEDDED

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: Sample depth CORE SAMPLE 4' BELOW PIT BOTTOM.
 (in multiple samples, attach sample results and diagram of sample locations and depths)
Sample Date 11/19/1999 Sample Time 11:50PM, 12:10PM
Sample results corner/center

Soil:	Benzene	(ppm)	<u>ND/ND</u>	Water:	Benzene	(ppb)	<u>NA</u>
	Total BTEX	(ppm)	<u>ND/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 11-21-00 **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: APACHE CORPORATION Telephone 505-325-0318
Address: 2855 SOUTH SIDE RIVER ROAD FARMINGTON N.M. 87401
Facility or Well Name: JAT 358 # 9
Location: Unit or Qtr/Qtr Sec NE/SW SEC 8 T 22N R 2W County SANDOVAL
Pit Type: Separator: Dehydrator Other BLOW PIT
Land Type: JIC. TRIBAL

Pit Location: Pit Dimensions: Length 50' Width 50' Depth 5'
(Attach diagram)
Reference: Wellhead XXX Other
Footage from reference: 175'
Direction from reference: 280° Degrees East North
X West of South

Depth To Groundwater: (vertical distance from contaminants to seasonal high water elevation of groundwater)	Less than 50 feet	(20 points)	<u> </u>
	50 feet to 99 feet	(10 points)	<u> </u>
	Greater than 100 feet	(0 points)	<u>0</u>
Distance to an Ephemeral Stream: (Downgradient dry wash greater than ten feet in width)	Less than 100 feet	(10 points)	<u> </u>
	Greater than 100 feet	(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	(10 points)	<u> </u>
	Greater than 100 feet	(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	(20 points)	<u> </u>
	No	(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	(20 points)	<u> </u>
	100 feet to 1000 feet	(10 points)	<u> </u>
	Greater than 1000 feet	(0 points)	<u>0</u>
RANKING SCORE (TOTAL POINTS)			<u>0</u>

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

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: 9-19-00 Backfill pit and Reseed.

NOVE Required, Pit to be Back Filled and Reseeded.
NO CONTAMINATION Detected.

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;

11:50Am, 12:10Pm

Sample results

Soil:

Benzene

(ppm)

corners/center

ND/ND

Water:

Benzene

(ppb)

NA

Total BTEX

(ppm)

ND/ND

Toluene

(ppb)

NA

Field Headspace

(ppm)

ND/ND

Ethylbenzene

(ppb)

NA

TPH

(ppm)

ND/ND

Total Xylenes

(ppb)

NA

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 9-19-2000

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 X NO _____ (REASON) _____

SIGNED:

Ken M...

DATE:

11-9-00

Pit Impact Rating Sheet

Well Name: JAT 358 # 9
 Well Location: NE/SW SEC 8 T 22 N R 2 W
 Number of Pits at Location: 1
 Pit Number and Usage: BLOW PIT
 Estimated Elevation: 7300'
 Estimated Groundwater Elevation: _____
 Vulnerable Area: YES XX NO _____
 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:

Depth to Groundwater:		Wellhead Protection Area:	
< 50'	20	< 1000' from water source, or	
50' - 99'	10	<200' from a domestic source?	
> 100'	0	Yes	20
Rating	0	No	0
		Rating	0

Distance to Surface Water:		Distance to Ephemeral stream > 10 feet width	
< 200' horizontal feet	20	< 100' horizontal feet	10
200' - 1000' horizontal feet	10	> 100' horizontal feet	0
> 1000' horizontal feet	0	Rating	0
Rating	0		

Distance to Lake, Playa or Watering Pond	
< 100' horizontal feet	10
> 100' horizontal feet	0
Rating	0

FINAL SOIL REMEDIATION STANDARDS:

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

Total Rating 0

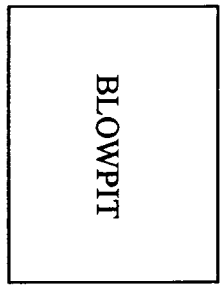
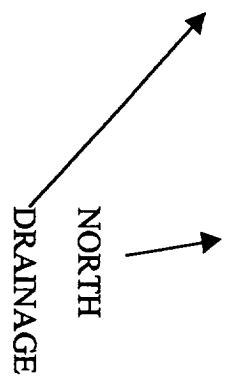
KNOWN ANALYSIS:

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

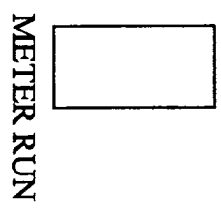
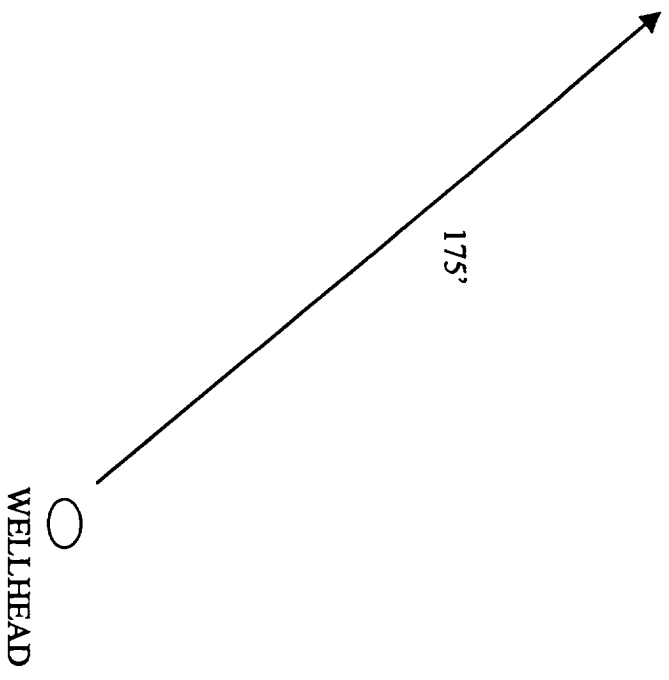
PROBABLE SOIL REMEDIATION TECHNIQUE:

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

JAT 358 # 9
NE/SW (K) SEC 8 T22N R2W
SANDOVAL, COUNTY N.M.



50' X 50' X 5'



APACHE CORPORATION/FARMINGTON DISTRICT PIT EXCAVATION AND CLOSURE REPORT

LOCATION JAT 358 # 9

PIT COUNT 1

START				FINISH			
DIMENSIONS							
	L	W	D		L	W	D
Pit 1	50'	50'	5'	Pit 1			
Pit 2				Pit 2			
Pit 3				Pit 3			
DATE:	Pit 1 @ 9'	Pit 2 @	Pit 3 @	Date:	Pit 1 @	Pit 2 @	Pit 3 @
P I D	Center	ND		P I D	Center		
	NW Corner	ND			NW Corner		
	NE Corner	ND			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.

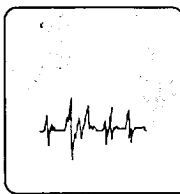
11/19/99 TOOK 4 POINT COMPOSITE CORE SAMPLE 4' BELOW PIT BOTTOM CORNERS.

PID READINGS ND. WITH NO VISIABLE STAINING OR ODOR.

DATE		11/19/99		SOIL SAMPLING					
		Pit 1 @ 9'	Pit 2 @	Pit 3 @	ANALYSIS RESULTS			PER LAB	Assaigai
P I D	Center	ND			PIT	TPH	BETEX	WITNESS	DATE
	NW Corner	ND			NO	SIDE\BTM	SIDE\BTM		
	NE Corner	ND			1	ND/ND	ND/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 I D	Center				PIT	TPH	BETEX	WITNESS	DATE
	NW Corner				NO	SIDE\BTM	SIDE\BTM		
	NE Corner				1				
	SW Corner				2				
	SE Corner				3				

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

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

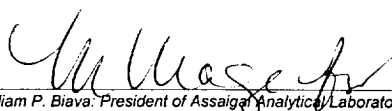
Explanation of codes

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

Assaigai Analytical Laboratories, Inc.

Certificate of Analysis

Client: **APACHE CORPORATION**
Project: **9911226 JIC. PIT REMEDIATION**


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

Client Sample ID **JAT358#9 PIT SIDES** Sample Matrix **SOIL** Sample Collected **11/19/99 11:50:00**

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Run Date
9911226-01A SW846 5030A/8021B Purgeable VOCs by GC/PID									
X99383	XG.1999.993-13	71-43-2	Benzene	ND	mg / Kg	1	0.005	1	11/24/99
X99383	XG.1999.993-13	100-41-4	Ethylbenzene	ND	mg / Kg	1	0.005	1	11/24/99
X99383	XG.1999.993-13	95-47-6	o-Xylene	ND	mg / Kg	1	0.005	1	11/24/99
X99383	XG.1999.993-13		p/m-Xylenes	ND	mg / Kg	1	0.01	1	11/24/99
X99383	XG.1999.993-13	108-88-3	Toluene	ND	mg / Kg	1	0.005	1	11/24/99

9911226-01A SW846 ME/8015A Diesel Range Organics by GC/FID									
X99388	XG.1999.1002-23		Diesel Range Organics	ND	mg / Kg	1	25		11/30/99

Client Sample ID **JAT358#9 PIT CENTER** Sample Matrix **SOIL** Sample Collected **11/19/99 12:10:00**

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Run Date
9911226-02A SW846 5030A/8021B Purgeable VOCs by GC/PID									
X99383	XG.1999.993-12	71-43-2	Benzene	ND	mg / Kg	1	0.005	1	11/24/99
X99383	XG.1999.993-12	100-41-4	Ethylbenzene	ND	mg / Kg	1	0.005	1	11/24/99
X99383	XG.1999.993-12	95-47-6	o-Xylene	ND	mg / Kg	1	0.005	1	11/24/99
X99383	XG.1999.993-12		p/m-Xylenes	ND	mg / Kg	1	0.01	1	11/24/99
X99383	XG.1999.993-12	108-88-3	Toluene	ND	mg / Kg	1	0.005	1	11/24/99



Assaigai Analytical Laboratories, Inc.
Certificate of Analysis

Client: **APACHE CORPORATION**
Project: **9911226 JIC. PIT REMEDIATION**

9911226-02A SW846 ME/8015A Diesel Range Organics by GC/FID
X99388 XG.1999.1002-24

	Diesel Range Organics	ND	mg / Kg	1	25	
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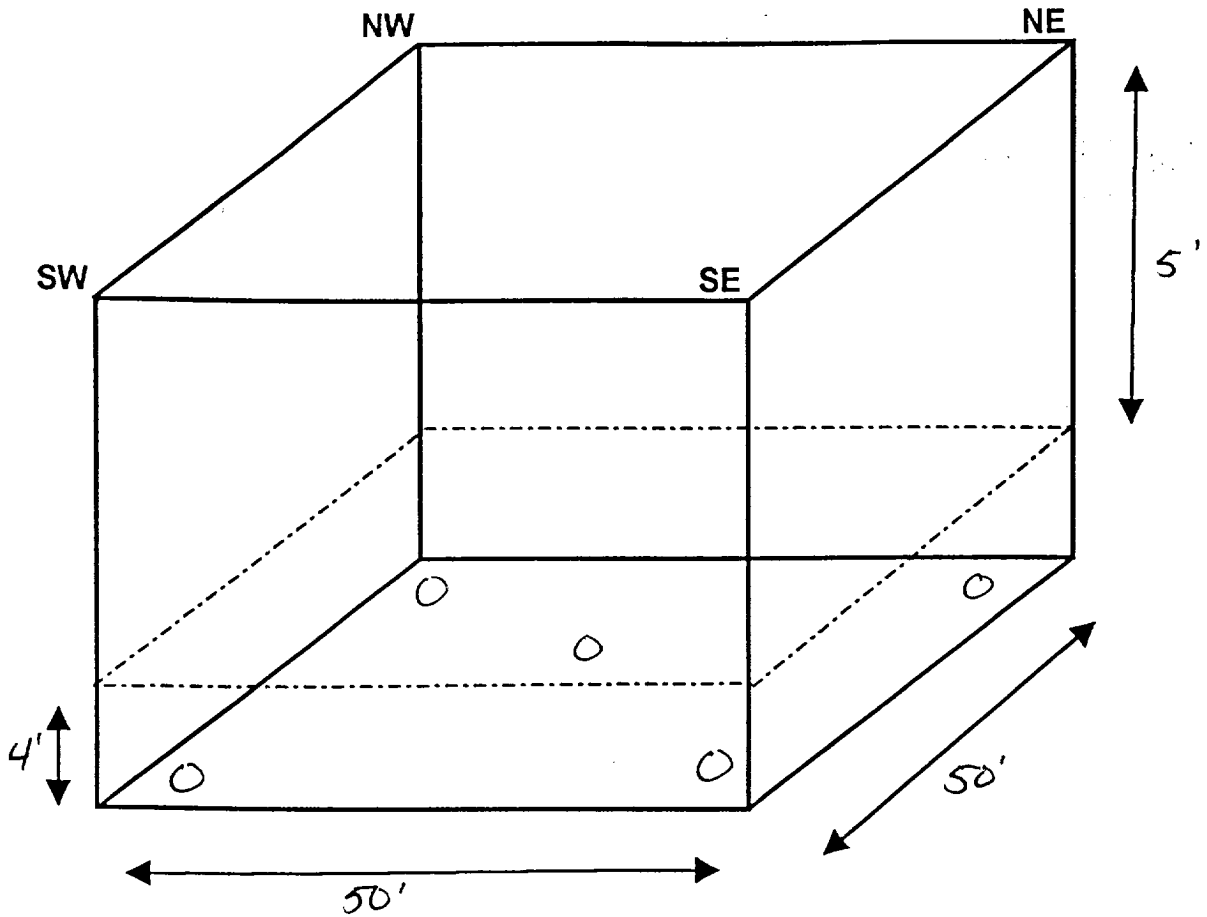
 11/30/99

*** 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.



= PIT BOTTOM



= SAMPLE AREA

WELL NAME

JAT 358 #9

SAMPLE DATE

11-19-99

NOTES

4 POINT COMPOSITE SAMPLE TAKEN 4' BELOW PIT

BOTTOM CORNERS.

1 POINT GRAB SAMPLE TAKEN 4' BELOW PIT BOTTOM CENTER