

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:	<u>Apache Corporation</u>		Telephone	<u>505-325-0318</u>							
Address:	<u>2855 Southside River Road, Suite A, Farmington, NM 87401</u>										
Facility or Well Name:	<u>JAT 360 #2</u>										
Location:	Unit or Qtr/Qtr	Sec	<u>NE/SE</u>	Sec	<u>1</u>	T	<u>22N</u>	R	<u>3W</u>	County	<u>SANDOVAL</u>
Pit Type:	Separator:	<u>Dehydrator</u>		Other	<u>BLOW PIT</u>						
Land Type:	<u>JIC. TRIBAL</u>										
Beginning Pit Dimensions: Length <u>50'</u> Width <u>35'</u> Depth <u>6'</u>											
Pit Location: Ending Pit Dimensions: Length <u>50'</u> Width <u>35'</u> Depth <u>6'</u>											
(Attach diagram)											
Reference: Wellhead <u>XXX</u> Other _____											
Footage from reference: <u>150'</u>											
Direction from reference: <u>160</u> Degrees _____ East of _____ North _____											
_____ West _____ South <u>X</u>											
Depth To Groundwater:			Less than 50 feet			(20 points)			<u> </u>		
(vertical distance from			50 feet to 99 feet			(10 points)			<u> </u>		
contaminants to seasonal			Greater than 100 feet			(0 points)			<u>0</u>		
high water elevation of											
groundwater)											
 Distance to an Ephemeral Stream:			Less than 100 feet			(10 points)			<u> </u>		
(Downgradient dry wash greater than			Greater than 100 feet			(0 points)			<u>0</u>		
ten feet in width											
 Distance to Nearest Lake, Playa, or Watering Pond:			Less than 100 feet			(10 points)			<u> </u>		
(Downgradient lakes, playas and			Greater than 100 feet			(0 points)			<u>0</u>		
livestock or wildlife watering ponds)											
 Wellhead Protection Area:			Yes			(20 points)			<u> </u>		
(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 sources)											
 Distance To Surface Water:			Less than 100 feet			(20 points)			<u> </u>		
(Horizontal distance to perennial			100 feet to 1000 feet			(10 points)			<u> </u>		
lakes, ponds, rivers, streams, creeks,			Greater than 1000 feet			(0 points)			<u>0</u>		
irrigation canals and ditches)											
 RANKING SCORE (TOTAL POINTS)									<u>0</u>		

Date Remediation Started: 11/18/1999 Date Completed: 09/22/2000

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
9/22/00 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 11/18/1999 Sample Time 3:15PM, 3:30PM

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 11-22-00 PRINTED NAME Jeff Cross

SIGNATURE Jeff Cross AND TITLE Project Manager

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

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 360 # 2</u>											
Location:		Unit or Qtr/Qtr Sec		<u>NE/SE</u>	<u>SEC 1</u>	<u>T 22N</u>	<u>R 3W</u>	County		<u>SANDOVAL</u>	
Pit Type:		Separator: _____		Dehydrator _____		Other		<u>BLOW PIT</u>			
Land Type:		<u>JIC. TRIBAL</u>									
Pit Location: (Attach diagram)		Pit Dimensions:		Length <u>50'</u>		Width <u>35'</u>		Depth <u>6'</u>			
		Reference:		Wellhead <u>XXX</u>		Other _____					
		Footage from reference:		<u>150'</u>							
		Direction from reference:		<u>160°</u>		Degrees		_____ East		North _____	
								_____ West		South <u>X</u>	
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) <u>0</u>			
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) <u>0</u>			
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) <u>0</u>			
livestock or wildlife watering ponds)											
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 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) <u>0</u>			
irrigation canals and ditches)											
RANKING SCORE (TOTAL POINTS)								<u>0</u>			

Date Remediation Started: 11/18/99 Date Completed: 9-22-00

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: 9-22-00 Back fill pit and Reseed

NONE 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 11/18/99 Sample Time; 3:15Pm, 3:30Pm
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 9-22-2000 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:

DATE:

11-9-00

Pit Impact Rating Sheet

Well Name: JAT 360 # 2
 Well Location: NE/SE SEC 1 T 22 N R 3 W
 Number of Pits at Location: 1
 Pit Number and Usage: BLOW PIT
 Estimated Elevation: 7300'
 Estimated Groundwater Elevation: _____
 Vulnerable Area: YES NO XX
 Fluid in Pits: YES NO XX
 % Water: 0
 % Oil: 0
 Visual Soil Contamination:
 Highly Contamination/Satureated Soils: NONE
 Unsatureated 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 Ephermal stream > 10 feet width	
< 200' horizontal feet	20	< 100' horizontal feet	Yes 10
200' - 1000' horizontal feet	10	> 100' horizontal feet	No 0
> 1000' horizontal feet	0	Rating	0
Rating	0		

Distance to Lake, Playa or Watering Pond	
< 100' horizontal feet	Yes 10
> 100' horizontal feet	No 0
Rating	0

FINAL SOIL REMEDIATION STANDARDS:

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

Total Rating 0

KNOWN ANALYSIS:

Soil: TPH: ND ppm Benzene: ND ppm BTEX: ND ppm
 Groundwater: TPH: NA ppm Benzene: NA ppm BTEX: NA ppm

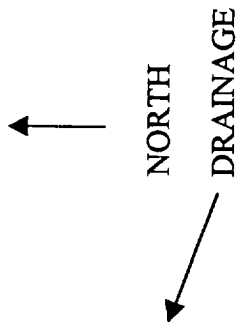
PROBABLE SOIL REMEDIATION TECHNIQUE:

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

JAT 360 # 2

NE/SE (I) SEC 1 T22N R3W

SANDOVAL, COUNTY N.M.

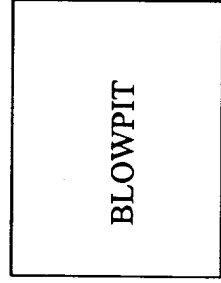


METER RUN

WELLHEAD



150'



BLOWPIT

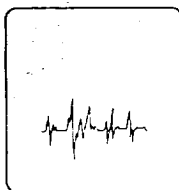
50' X 35' X 6'

APACHE CORPORATION/FARMINGTON DISTRICT PIT EXCAVATION AND CLOSURE REPORT

LOCATION JAT 360 # 2

PIT COUNT 1

[illegible]



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

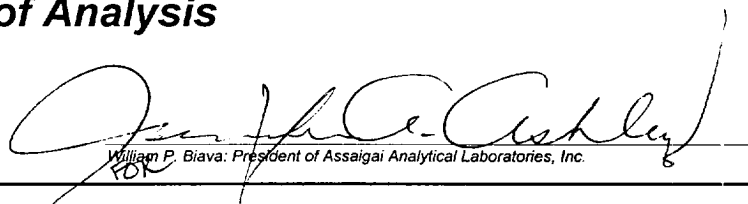
attn: JEFF CROSS

2855 SOUTHSIDE RIVER RD STE A
FARMINGTON, NM 87401-7947

Assaigai Analytical Laboratories, Inc.

Certificate of Analysis

Client: **APACHE CORPORATION**
Project: **9911221 JIC. PIT REMEDIATION**


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

Client **JAT360#2 PIT SIDES** Sample Matrix **SOIL** Sample Collected **11/18/99 15:15:00**

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Run Date
9911221-01A SW846 5030A/8021B Purgeable VOCs by GC/PID									
X99379	XG.1999.995-11	71-43-2	Benzene	ND	mg / Kg	1	0.005	1	11/24/99
X99379	XG.1999.995-11	100-41-4	Ethylbenzene	ND	mg / Kg	1	0.005	1	11/24/99
X99379	XG.1999.995-11	95-47-6	o-Xylene	ND	mg / Kg	1	0.005	1	11/24/99
X99379	XG.1999.995-11		p/m-Xylenes	ND	mg / Kg	1	0.01	1	11/24/99
X99379	XG.1999.995-11	108-88-3	Toluene	ND	mg / Kg	1	0.005	1	11/24/99

9911221-01A SW846 ME/8015A Diesel Range Organics by GC/FID									
X99385	XG.1999.1002-8		Diesel Range Organics	ND	mg / Kg	1	25		11/30/99

Client **JAT360#2 PIT CENTER** Sample Matrix **SOIL** Sample Collected **11/18/99 15:30:00**

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Run Date
9911221-02A SW846 5030A/8021B Purgeable VOCs by GC/PID									
X99379	XG.1999.995-12	71-43-2	Benzene	ND	mg / Kg	1	0.005	1	11/24/99
X99379	XG.1999.995-12	100-41-4	Ethylbenzene	ND	mg / Kg	1	0.005	1	11/24/99
X99379	XG.1999.995-12	95-47-6	o-Xylene	ND	mg / Kg	1	0.005	1	11/24/99
X99379	XG.1999.995-12		p/m-Xylenes	ND	mg / Kg	1	0.01	1	11/24/99
X99379	XG.1999.995-12	108-88-3	Toluene	ND	mg / Kg	1	0.005	1	11/24/99



Assaigal Analytical Laboratories, Inc.
Certificate of Analysis

Client: **APACHE CORPORATION**
Project: **9911221 JIC. PIT REMEDIATION**

9911221-02A SW846 ME/8015A Diesel Range Organics by GC/FID

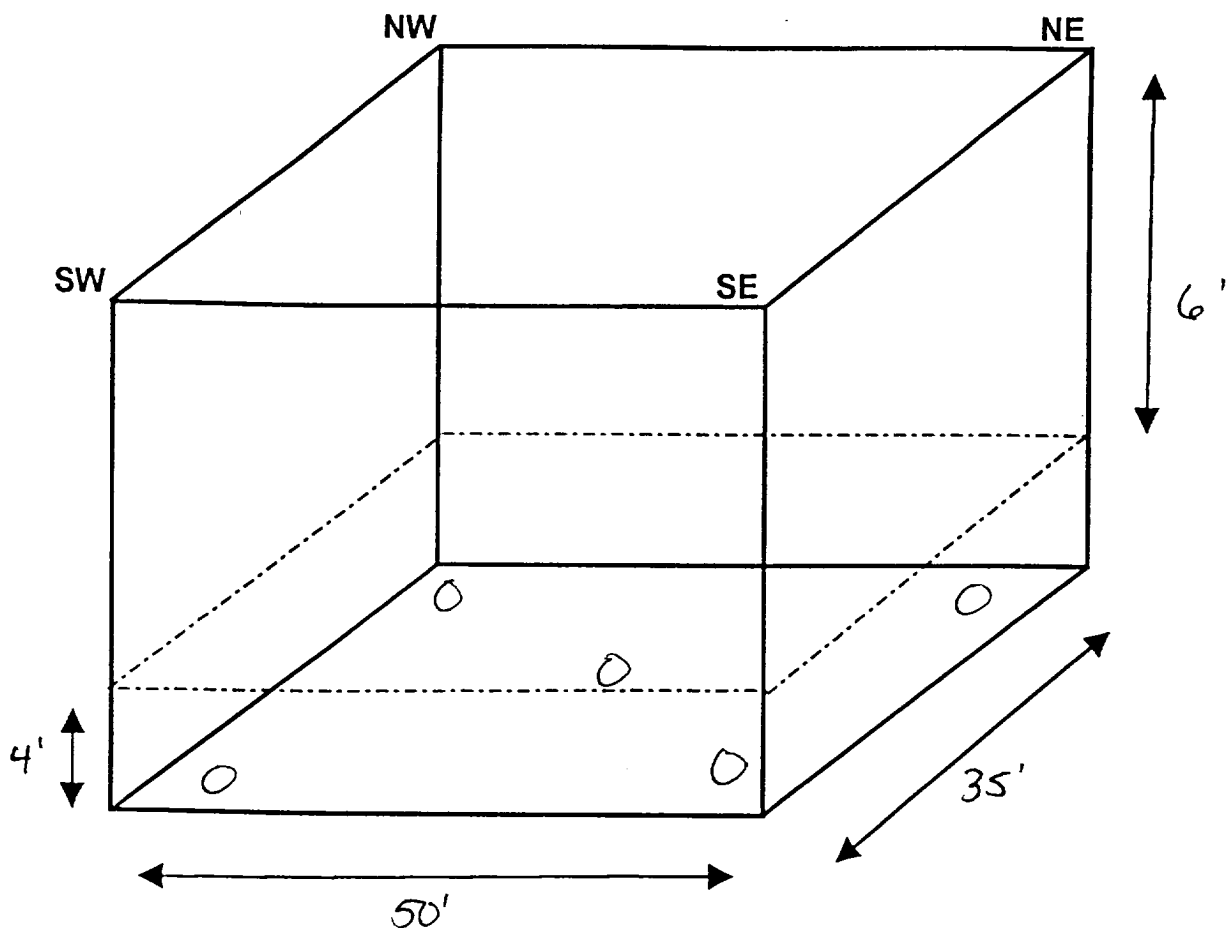
X99385	XG.1999.1002-9		Diesel Range Organics	ND	mg / Kg	1	25		11/30/99
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*** Sample specific Detection Limit is determined by multiplying the sample Dilution Factor by the listed Reporting Detection Limit. ***

*** 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 360 #2

SAMPLE DATE

11-18-99

NOTES

4 POINT COMPOSITE SAMPLE TAKEN 4' BELOW PIT

BOTTOM CORNERS.

1 POINT GRAB SAMPLE TAKEN 4' BELOW PIT BOTTOM CENTER