

District III  
1000 Rio Brazos Rd  
Aztec, NM 87410

DEC 17 1998

State of New Mexico  
Energy, Minerals and Natural Resources Department

**OIL CONSERVATION DIVISION**

2040 S. PACHECO  
Santa Fe, New Mexico 87505

OK  
Submit 1 copy to  
Appropriate District  
and 1 copy to  
Santa Fe Office

**PIT REMEDIATION AND CLOSURE REPORT**

RECEIVED  
JUL 8 1998

Operator: **Apache Corporation** Telephone: **505 325-0318**  
OIL CON. DIV.  
DIST. 3

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

Facility or Well Name: **Apache # 143 Pit #1**

Location: Unit or Qtr/Qtr Sec **G Sec 2 T 24 N R 4W** County **Rio Arriba**

Pit Type: Separator: **XX** Dehydrator Other

Land Type: **Jicarilla Tribal**

Beginning Pit Dimensions: Length **15'** Width **15'** Depth **1.5'**

Pit Location: Ending Pit Dimensions: Length **17'** Width **17'** Depth **2'**  
(Attach diagram)

Reference: Wellhead **XXX** Other

Footage from reference: **115'**

Direction from reference: **218** Degrees East North  
of  
**X** West South **XX**

**Depth To Groundwater:**  
(vertical distance from  
contaminants to seasonal  
high water elevation of  
groundwater)

Less than 50 feet	(20 points)	
50 feet to 99 feet	(10 points)	
Greater than 100 feet	( 0 points)	<b>0</b>

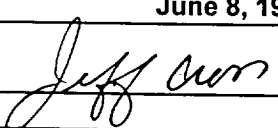
**Wellhead Protection Area:**  
(Less than 200 feet from a private  
domestic water source, or; less than  
1000 feet from all other water sources)

Yes	(20 points)	
No	( 0 points)	<b>0</b>

**Distance To Surface Water:**  
(Horizontal distance to perennial  
lakes, ponds, rivers, streams, creeks,  
irrigation canals and ditches)

Less than 200 feet	(20 points)	
200 feet to 1000 feet	(10 points)	
Greater than 1000 feet	( 0 points)	<b>0</b>

**RANKING SCORE (TOTAL POINTS)** **0**

<b>Date Remediation Started:</b>		<u>11/15/95</u>	<b>Date Completed:</b>		<u>5/22/96</u>
<b>Remediation Method:</b> (Check all appropriate sections)		Excavation <u>XXX</u>	Approx. cubic yards	<u>29</u>	
		Landfarmed <u>XX</u>	Insitu Bioremediation		
		Other _____			
<b>Remediation Location:</b> (i.e. landfarmed onsite, name and location of offsite facility)		Onsite <u>XX</u>	Offsite	_____	
<b>General Description of Remedial Action:</b>		<u>Excavate pit to 2', took PID readings.</u>			
		<u>Spread soil on location for remediation. Took soil samples. Hit Bedrock. Pit back filled w/ fill dirt</u>			
		_____			
		_____			
		_____			
<b>Groundwater Encountered:</b>		No <u>XX</u>	Yes _____	Depth _____	
<b>Final Pit:</b>	Sample location	<u>5 point composite taken from pit sidewalls and pit bottom center</u>			
<b>Closure Sampling:</b> (in multiple samples, attach sample results and diagram of sample locations and depths)	Sample depth <u>2'</u>	<u>8 to 10" into pit sidewalls 10" into pit bottom</u>			
	Sample Date	<u>5/22/98</u>	Sample Time	<u>9:15 A.M.</u>	
	Sample results				
	Benzene	(ppm)	<u>ND</u>		
	Total BTEX	(ppm)	<u>ND</u>		
	Field Headspace	(ppm)	<u>ND</u>		
	TPH		<u>4500</u>		
<b>Groundwater Sample:</b>		Yes _____	No <u>XX</u>	(If yes attach sample results)	
<b>I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF.</b>					
<b>DATE</b>		<u>June 8, 1998</u>	<b>PRINTED NAME</b>		<u>Jeff Cross</u>
<b>SIGNATURE</b>			<b>AND TITLE</b>		<u>Project Manager</u>

District III  
1000 Rio Brazos Rd  
Aztec, NM 87410

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  
Appropriate District  
and 1 copy to  
Santa Fe Office

**PIT REMEDIATION AND CLOSURE REPORT**

Operator: <b>Apache Corporation</b>		Telephone: <b>505-325-0318</b>	
Address: <b>2855 Southside River Road, Suite A, Farmington, NM 87401</b>			
Facility or Well Name:		<b>Apache # 143 Pit #2</b>	
Location: Unit or Qtr/Qtr Sec	<b>G</b>	<b>Sec 2</b>	<b>T 24 N R 4W</b> County <b>Rio Arriba</b>
Pit Type: Separator:		Dehydrator	Other <b>Line Drip</b>
Land Type:	<b>Jicarilla Tribal</b>		
Beginning Pit Dimensions:		Length <b>10'</b>	Width <b>10'</b> Depth <b>2'</b>
Pit Location: Ending Pit Dimensions:	Length <b>14'</b>	Width <b>14'</b>	Depth <b>4'</b>
(Attach diagram)			
Reference:	Wellhead <b>XXX</b>	Other	
Footage from reference:		<b>500'</b>	
Direction from reference:		<b>50</b> Degrees <b>XX</b> East	North <b>X</b>
		West	South
<b>Depth To Groundwater:</b>		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) <b>0</b>
high water elevation of			
groundwater)			
 <b>Wellhead Protection Area:</b>		Yes	(20 points)
(Less than 200 feet from a private		No	( 0 points) <b>0</b>
domestic water source, or; less than			
1000 feet from all other water sources)			
<b>Distance To Surface Water:</b>		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) <b>0</b>
irrigation canals and ditches)			
		<b>RANKING SCORE (TOTAL POINTS)</b>	<b>0</b>

<b>Date Remediation Started:</b>		<u>11/15/95</u>		<b>Date Completed:</b>		<u>12/14/95</u>	
<b>Remediation Method:</b> (Check all appropriate sections)		Excavation <u>XXX</u>		Approx. cubic yards		<u>22</u>	
		Landfarmed <u>XX</u>		Insitu Bioremediation			
		Other _____					
<b>Remediation Location:</b> (i.e. landfarmed onsite, name and location of offsite facility)		Onsite <u>XX</u>		Offsite _____			
<b>General Description of Remedial Action:</b>		<u>Excavate pit to 4', took PID readings.</u>					
		<u>Spread soil on location for remediation. Took soil samples. Hit Bedrock. Pit back filled w/ fill dirt</u>					
<b>Groundwater Encountered:</b>		No <u>XX</u>		Yes _____		Depth _____	
<b>Final Pit:</b>		<u>Sample location 5 point composite taken from pit sidewalls and pit bottom center</u>					
<b>Closure Sampling:</b> (in multiple samples, attach sample results and diagram of sample locations and depths)							
		<u>Sample depth 4'</u>		<u>8 to 10" into pit sidewalls 10" into pit bottom</u>			
		<u>Sample Date 12/14/95</u>		<u>Sample Time 1:40 P.M.</u>			
		<u>Sample results</u>					
		Benzene		(ppm)		<u>ND</u>	
		Total BTEX		(ppm)		<u>ND</u>	
		Field Headspace		(ppm)		<u>32.78</u>	
		TPH				<u>130</u>	
<b>Groundwater Sample:</b>		Yes _____		No <u>XX</u>		(If yes attach sample results)	
<b>I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF.</b>							
<b>DATE</b>		<u>June 8, 1998</u>		<b>PRINTED NAME</b>		<u>Jeff Cross</u>	
<b>SIGNATURE</b>		_____		<b>AND TITLE</b>		<u>Project Manager</u>	

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 SOUTHSIDE RIVER ROAD / SUITE A / FARMINGTON N.M. 87401-7947</u>			
Facility or Well Name: <u>APACHE # 143 pit # 1</u>			
Location:	Unit or Qtr/Qtr Sec	<u>G</u> <u>SEC 2</u> <u>T 24N</u> <u>R 4W</u>	County <u>RIO ARRIBA</u>
Pit Type:	Separator: <u>XX</u>	Dehydrator <u>          </u>	Other <u>          </u>
Land Type: <u>JIC. TRIBAL</u>			

Pit Location: (Attach diagram)	Pit Dimensions:	Length <u>17'</u>	Width <u>17'</u>	Depth <u>2'</u>
	Reference:	Wellhead <u>XXX</u>	Other <u>          </u>	
	Footage from reference:	<u>115'</u>		
	Direction from reference:	<u>218</u> Degrees	<u>          </u> East	North <u>          </u>
		<u>X</u> West	of South	<u>XX</u>

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>

<b>Date Remediation Started:</b>		<u>11/15/95</u>		<b>Date Completed:</b>		<u>5/22/96</u>	
<b>Remediation Method:</b> (Check all appropriate sections)		Excavation <u>XXX</u>		Approx. cubic yards		<u>29</u>	
		Landfarmed <u>XX</u>		Insitu Bioremediation			
		Other _____					
<b>Remediation Location:</b> (i.e. landfarmed onsite, name and location of offsite facility)		Onsite <u>XX</u>		Offsite _____			
<b>General Description of Remedial Action:</b> <u>Excavate pit to 2', took PID readings. spread soil on location for remediation. Took soil samples. HIT BEDROCK.</u>							
<b>Groundwater Encountered:</b>		No <u>XXX</u>		Yes _____		Depth _____	
<b>Final Pit:</b>		Sample location <u>5 point composite taken from pit sidewalls and pit bottom center.</u>					
<b>Closure Sampling:</b> (in multiple samples, attach sample results and diagram of sample locations and depths)		Sample depth <u>2'</u> <u>8" to 10" into pit side walls, 10" into pit bottom.</u>					
Sample Date		<u>5/22/96</u>		Sample Time		<u>9:15AM</u>	
Sample results							
Soil:	Benzene	(ppm)	<u>ND</u>	Water:	Benzene	(ppb)	<u>NA</u>
	Total BTEX	(ppm)	<u>ND</u>		Toluene	(ppb)	<u>NA</u>
	Field Headspace	(ppm)	<u>ND</u>		Ethylbenzene	(ppb)	<u>NA</u>
	TPH	(ppm)	<u>4500</u>		Total Xylenes	(ppb)	<u>NA</u>
<b>Groundwater Sample:</b>		Yes _____		No <u>XXX</u>		(If yes attach sample results)	
<b>I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF.</b>							
<b>DATE</b>		<u>5/27/98</u>		<b>PRINTED NAME</b>		<u>JEFF CROSS</u>	
<b>SIGNATURE</b>		<u>Jeff Cross</u>		<b>AND TITLE</b>		<u>PROJECT MANAGER</u>	
<b>AFTER REVIEW OF THE PIT CLOSURE INFORMATION, PIT CLOSURE IS APPROVED IN ACCORDANCE TO THE JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE.</b>							
<b>APPROVED:</b>		YES <u>X</u>		NO _____		(REASON) _____	
<b>SIGNED:</b>		<u>Jeff Cross</u>		<b>DATE:</b>		<u>6-2-98</u>	

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

Submit 1 copy to  
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and Oil & Gas Administration

**PIT REMEDIATION AND CLOSURE REPORT**

Operator:	APACHE CORPORATION		Telephone	505-325-0318	
Address:	2855 SOUTHSIDE RIVER ROAD / SUITE A / FARMINGTON N.M. 87401-7947				
Facility or Well Name:	APACHE # 143 pit # 2				
Location:	Unit or Qtr/Qtr	Sec	G	SEC 2	T 24N R 4W County RIO ARRIBA
Pit Type:	Separator:	Dehydrator	Other	LINE DRIP.	
Land Type:	JIC. TRIBAL				
Pit Location: (Attach diagram)	Pit Dimensions:	Length	14'	Width	14' Depth 4'
	Reference:	Wellhead	XXX	Other	
	Footage from reference:	500'			
	Direction from reference:	50	Degrees	XX	East North X
				West	South
<b>Depth To Groundwater:</b> (vertical distance from contaminants to seasonal high water elevation of groundwater)	Less than 50 feet	(20 points)			
	50 feet to 99 feet	(10 points)			
	Greater than 100 feet	( 0 points)	0		
<b>Distance to an Ephemeral Stream:</b> (Downgradient dry wash greater than ten feet in width)	Less than 100 feet	(10 points)			
	Greater than 100 feet	( 0 points)	0		
<b>Distance to Nearest Lake, Playa, or Watering Pond:</b> (Downgradient lakes, playas and livestock or wildlife watering ponds)	Less than 100 feet	(10 points)			
	Greater than 100 feet	( 0 points)	0		
<b>Wellhead Protection Area:</b> (Less than 200 feet from a private domestic water source, or less than 1000 feet from all other water sources)	Yes	(20 points)			
	No	( 0 points)	0		
<b>Distance To Surface Water:</b> (Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)	Less than 100 feet	(20 points)			
	100 feet to 1000 feet	(10 points)			
	Greater than 1000 feet	( 0 points)	0		
	RANKING SCORE (TOTAL POINTS)		0		

Date Remediation Started: 11/15/95 Date Completed: 12/14/95

Remediation Method: (Check all appropriate sections)  
Excavation XXX Approx. cubic yards 22  
Landfarmed XX Insitu Bioremediation \_\_\_\_\_

Other \_\_\_\_\_

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

General Description of Remedial Action: Excavate pit to 4', took PID readings. spread soil on location for remediation. Took soil samples. HIT BEDROCK.

Groundwater Encountered: No XXX Yes \_\_\_\_\_ Depth Back Filled Pit w/ Fill Dirt

Final Pit: Sample location 5 point composite taken from pit sidewalls and pit bottom center.

Closure Sampling: (in multiple samples, attach sample results and diagram of sample locations and depths)  
Sample depth 4' 8" to 10" into pit side walls, 10" into pit bottom.

Sample Date 12/14/95 Sample Time 1:40PM  
Sample results

Soil:	Benzene	(ppm)	<u>ND</u>	Water:	Benzene	(ppb)	<u>NA</u>
	Total BTEX	(ppm)	<u>ND</u>		Toluene	(ppb)	<u>NA</u>
	Field Headspace	(ppm)	<u>32.78</u>		Ethylbenzene	(ppb)	<u>NA</u>
	TPH	(ppm)	<u>130</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 5/27/98 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: Lee C. Mamm DATE: 6-2-98



APACHE CORPORATION FARMINGTON DISTRICT  
PIT EXCAVATION AND CLOSURE REPORT

LOCATION: APACHE 143  
PIT COUNT: 2

JICARILLA APACHE TRIBAL EPO  
REVIEW AND APPROVAL

EPO REPRESENTATIVE KCM  
DATE OF REVIEW: 12-27-95

EXCAVATION								
DIMENSIONS		START			FINISH			CU.YDS.
	W	L	D		W	L	D	
PIT 1	15'	15'	1.5'	PIT 1	17'	17'	2'	29.0
PIT 2	10'	10'	2'	PIT 2	14'	14	4'	22.0
PIT 3				PIT 3				
DATE: 11/15/95		PIT1@02'	PIT2@04'	PIT3@	DATE:	PIT1@	PIT2@	PIT3@
P. I. D.	CENTER	63.4	96.3		P.	CENTER		
	NW CORNER	115.0	188.0		P.	NW CORNER		
	NE CORNER	120.0	195.0		I.	NE CORNER		
	SW CORNER	49.2	102.0		D.	SW CORNER		
	SE CORNER	79.4	78.3			SE CORNER		

NOTES:

11/15/95 - PIT 1 - Hit rock @ 2'. Remove staining from side walls  
PIT 2 - Hit rock @ 4'. Remove staining from side walls

\*Soil samples of 11/15 pulled prior to side walls excavation. To be re-tested @ time of witnessed sampling.

SOIL SAMPLING

DATE: 11/15/95		PIT1@02'	PIT2@04'	PIT3@	ANALYSIS RESULTS		PER LAB: ASSAIGAI	
	CENTER	63.4	96.3		PIT	TPH	BETEX	WITNESS DATE
P.	NW CORNER	115.0	188.0		NO.			
I.	NE CORNER	120.0	195.0	1		8900.0	13.0	IF&S* 11/15/95
D.	SW CORNER	49.2	102.0	2		140.0	14.4	IF&S* 11/15/95
	SE CORNER	79.4	78.3	3				

RE-SAMPLE OR CELL(S) SAMPLE

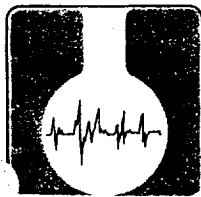
DATE: 12/14/95		PIT1@02'	PIT2@04'	PIT3@	ANALYSIS RESULTS		PER LAB: ASSAIGAI	
	CENTER	14.3	23.3		PIT	TPH	BETEX	WITNESS DATE
P.	NW CORNER	14.9	46.9		NO.			
I.	NE CORNER	28.6	33.0	1		5700	1.12	JDT 12/14/95
D.	SW CORNER	13.4	35.3	2		130	ND	12/14/95
	SE CORNER	32.5	25.4	3				

RE-SAMPLE OR CELL(S) SAMPLE

DATE: 5-22-96		PIT 1	PIT 2	PIT 3	ANALYSIS RESULTS		PER LAB:	
	CENTER				PIT	TPH	BETEX	WITNESS DATE
P.	NW CORNER				NO.			
I.	NE CORNER				1	4500	ND	KB 5-22-96
D.	SW CORNER				2			
	SE CORNER				3			

[illegible]

[illegible]



# ASSAIGAI ANALYTICAL LABORATORIES

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

3332 Wedgewood, E-5 • El Paso, Texas 79925 • (915) 593-6000 • FAX (915) 593-7820

Report Generated:  
May 31, 1996 11:02

## CERTIFICATE OF ANALYSIS RESULTS BY SAMPLE

SENT APACHE CORPORATION  
TO: 304 N. BEHREND  
FARMINGTON, NM 87401

WORKORDER # : 9605206  
WORK ID : PIT REMEDIATION  
CLIENT CODE : APA01  
DATE RECEIVED : 05/23/96

ATTN: JOHN TAYLOR

Page: 1

Lab ID: 9605206-01A  
Sample ID: APACHE 120

Collected: 05/22/96 08:30:00  
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/Kg	0.0010	100	05/24/96	SBTXME112
Toluene	ND	mg/Kg	0.0010	100	05/24/96	SBTXME112
Ethylbenzene	ND	mg/Kg	0.0010	100	05/24/96	SBTXME112
P-&m-Xylene	ND	mg/Kg	0.0010	100	05/24/96	SBTXME112
O-Xylene	ND	mg/Kg	0.0010	100	05/24/96	SBTXME112
DIESEL/CAL DHS 8015M						
Diesel	3500	mg/Kg	5.0	250	05/29/96	SLFTD074
HCS DSL XT/CAL DHS 8015M	05/24/96	N/A				

Lab ID: 9605206-02A  
Sample ID: APACHE 123 pit #1

Collected: 05/22/96 09:15:00  
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/Kg	0.0010	100	05/24/96	SBTXME112
Toluene	ND	mg/Kg	0.0010	100	05/24/96	SBTXME112
Ethylbenzene	ND	mg/Kg	0.0010	100	05/24/96	SBTXME112
P-&m-Xylene	ND	mg/Kg	0.0010	100	05/24/96	SBTXME112
O-Xylene	ND	mg/Kg	0.0010	100	05/24/96	SBTXME112
HCS DIESEL/CAL DHS 8015M						
Diesel	3500	mg/Kg	5.0	250	05/29/96	SLFTD074
HCS DSL XT/CAL DHS 8015M	05/24/96	N/A				

Lab ID: 9605206-03A  
Sample ID: APACHE 132

Collected: 05/22/96 10:00:00  
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/Kg	0.0010	100	05/24/96	SBTXME112
Toluene	ND	mg/Kg	0.0010	100	05/24/96	SBTXME112
Ethylbenzene	ND	mg/Kg	0.0010	100	05/24/96	SBTXME112
P-&m-Xylene	ND	mg/Kg	0.0010	100	05/24/96	SBTXME112



Chain of Custody Record

Lab job no.

5206

Date:

W

3333 WEDGEWOOD  
EL PASO, TEXAS 79825  
(915) 583-8000

1910 N. BIC  
MIDLAND, TE 79705  
(915) 670-1116

MELQUADES ALANIS

Ciudad Juarez, Chihuahua Mexico 32320

Client: ADACHE COVD.

Address  
3041 N BEAVER RD

City / State / Zip FAIRMINGTON, N.M. 87401

Project Name / Number

Contract / Purchase Order / Quote

Project Manager / Contact John T. Adams

Telephone No. 505-235-0518

Fax No.

**Samplers: (Signature)**

[illegible]

After analysis, samples are to be: ☐ Retained ☒ Disposed of (additional fee)

# ILLECIABLE

COURIER

Lab ID: 9512195-02B  
Sample ID: AP #150-H

Collected: 12/14/95 14:05:00  
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
HCs DIESEL/CAL DHS 8015M						
Diesel	1600	mg/Kg	5.0	50	01/05/96	SLFTD57
HCs DSL XT/CAL DHS 8015M	12/21/95	N/A				

Lab ID: 9512195-03A  
Sample ID: AP #143-C Pit #2

Collected: 12/14/95 13:40:00  
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/Kg	0.0010	50	12/27/95	SBTXME097
Toluene	ND	mg/Kg	0.0010	50	12/27/95	SBTXME097
Ethylbenzene	ND	mg/Kg	0.0010	50	12/27/95	SBTXME097
P-&m-Xylene	ND	mg/Kg	0.0010	50	12/27/95	SBTXME097
O-Xylene	ND	mg/Kg	0.0010	50	12/27/95	SBTXME097

Lab ID: 9512195-03B  
Sample ID: AP #143-C Pit #2

Collected: 12/14/95 13:40:00  
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
HCs DIESEL/CAL DHS 8015M						
Diesel	130	mg/Kg	5.0	5.0	01/05/96	SLFTD57
HCs DSL XT/CAL DHS 8015M	12/21/95	N/A				

Lab ID: 9512195-04A  
Sample ID: AP #150-C

Collected: 12/14/95 13:55:00  
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/Kg	0.0010	50	12/27/95	SBTXME097
Toluene	ND	mg/Kg	0.0010	50	12/27/95	SBTXME097
Ethylbenzene	ND	mg/Kg	0.0010	50	12/27/95	SBTXME097
P-&m-Xylene	ND	mg/Kg	0.0010	50	12/27/95	SBTXME097
O-Xylene	ND	mg/Kg	0.0010	50	12/27/95	SBTXME097

Lab ID: 9512195-04B  
Sample ID: AP #150-C

Collected: 12/14/95 13:55:00  
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
HCs DIESEL/CAL DHS 8015M						
Diesel	150	mg/Kg	5.0	5.0	01/05/96	SLFTD57
HCs DSL XT/CAL DHS 8015M	12/21/95	N/A				



## Chain of Custody Record

12

64

(915) 570-1116

UA MEXICO 32320

Project Manager / Contact John Taylor

Telephone No. (505) 325-0316

Fax No. (575) 375-0325

**Samplers: (Signature)** \_\_\_\_\_

Lab Packing Number	Field Sample Number / Location	Date	Time	Sample Type	Type / Size of Container	Preservation	
						Temp.	Chemical
CDA	AP <sup>#</sup> 101	11/15	9:55	Scil	4 oz. Glass	-	JCE
(116)	AP <sup>#</sup> 101	11/15	9:55	/			/
CDA	AP <sup>#</sup> 143-H	11/15	1:20				/
CDA	AP <sup>#</sup> 143-H	11/15	1:20				/
CDA	AP <sup>#</sup> 143-C	11/15	2:55				/
CDA	AP <sup>#</sup> 143-C	11/15	2:55				/
CDA	AP <sup>#</sup> 107	11/16	10:30				/
CDA	AP <sup>#</sup> 107	11/16	10:30				/
CDA	AP <sup>#</sup> 107	11/16	10:30				/
CDA	AP <sup>#</sup> 102-H	11/17	12:45				/
CDA	AP <sup>#</sup> 102-H	11/17	12:45				/
CDA	AP <sup>#</sup> 102-H	11/17	12:45				/
CDA	AP <sup>#</sup> 102-C	11/20	2:18				/
CDA	AP <sup>#</sup> 102-C	11/20	2:18				/

Relinquished by \_\_\_\_\_  
Signature \_\_\_\_\_  
Printed \_\_\_\_\_  
Company \_\_\_\_\_  
Reason \_\_\_\_\_

Date	24 NOV 9
Received by:	Alvin Miller
Signature	Alvin Miller
Printed	Alvin Miller
Company	ALC
Reason	

Comments

[illegible][illegible]

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**2011 fee)**

**(addition)**

nal fee)

COURIER

APACHE

APACHE NUMBER 143

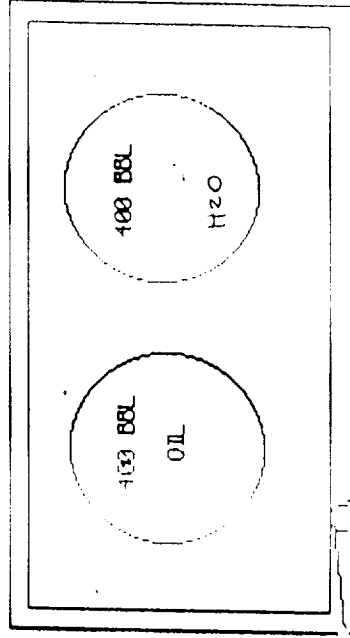
Lease # JAT 126

SW/4 NE/4 (G)

SECTION 2, TOWNSHIP 24N, RANGE 4W

RIO ARriba COUNTY, NM

Revised 8/1/87 HG

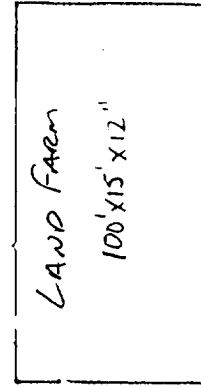


Pit #1  
Reclaimed  
115' FWH  
218° SSW

|| G M ||

3' BY 15' APACHE METER RUN

SEPARATOR



GENERAL DRAINAGE

NORTH

WELL HEAD

Pit #2  
50' ENE  
500' FWH



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

ON-SITE SOIL REMEDIATION REPORT

Operator: <u>APACHE CORPORATION</u> Telephone <u>505-325-0318</u>	
Address: <u>2855 SOUTHSIDE RIVER ROAD/SUITE A / FARMINGTON , N.M. 87401-7947</u>	
Facility or Well Name: <u>APACHE # 143</u>	
Location: Unit or Qtr/Qtr Sec <u>G</u> Sec <u>2</u> T <u>24N</u> R <u>4W</u> County <u>RIO ARRIBA</u>	
Land Type <u>JIC. TRIBAL</u>	
Date Remediation Started: <u>11/15/95</u> Date Completed: <u>5/12/98</u>	
Remediation Method: Landfarmed <u>XXX</u> Approx. cubic yards <u>51</u>	
Composted _____	
Other _____	
Depth to Groundwater: (pts) <u>0</u>	<b>Final Closure Sampling</b> Sampling Date: <u>5/12/98</u> Time: <u>2:15PM</u> Sample Results: Field Headspace (ppm) <u>ND</u> TPH (ppm) <u>ND</u> Method <u>M8015</u> Other <u>BTEX \ SW846 , 8020A (ND)</u>
Distance to an Ephemeral Stream: (pts) <u>0</u>	
Distance to Nearest Lake, Playa, or Watering Pond: (pts) <u>0</u>	
Wellhead Protection Area: (pts) <u>0</u>	
Distance To Surface Water: (pts) <u>0</u>	
<b>RANKING SCORE (TOTAL POINTS)</b> <u>0</u>	
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF	
DATE: <u>5/27/98</u> PRINTED NAME <u>JEFF CROSS</u>	
SIGNATURE <u>Jeff Cross</u> TITLE <u>PROJECT MANAGER</u>	
AFTER REVIEW OF THE SOIL REMEDIATION INFORMATION. ON-SITE REMEDIATION IS APPROVED IN ACCORDANCE TO THE JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE.	
APPROVED: YES <u>X</u> NO _____ (REASON) _____	
SIGNED: <u>Kurt Mamm</u> DATE: <u>6-2-98</u>	

# APACHE CORPORATION/FARMINGTON DISTRICT SOIL REMEDIATIONS STATUS REPORT

REMEDIATION SITE APACHE # 143

\* AMOUNT OF SOIL UNDERGOING REMEDIATION 51 Yds.

CELL No. <u>1</u>	SampDATE <b>5/12/98</b>	TPH <b>ND</b>	BTEX <b>ND</b>
DIMENSIONS(LxWxH) <u>100' X 15' X 12"</u>			
CELL LOCATION (dir. from well head) <u>SOUTH</u>			
* DATE BEGAN: <u>11/15/95</u>			
DATE TERMINATED (TPH <5,000 ppm/BTEX< 50 ppm/Benzene < 10 ppm) <u>5/12/98</u>			
CELL No. <u>2</u>	SampDATE	TPH	BTEX
DIMENSIONS(LxWxH)			
CELL LOCATION (dir. from well head)			
* DATE BEGAN:			
DATE TERMINATED (TPH <5,000 ppm/BTEX< 50 ppm/Benzene < 10 ppm)			
CELL No. <u>3</u>	SampDATE	TPH	BTEX
DIMENSIONS(LxWxH)			
CELL LOCATION (dir. from well head)			
* DATE BEGAN:			
DATE TERMINATED (TPH <5,000 ppm/BTEX< 50 ppm/Benzene < 10 ppm)			
REMEDIATION RECORD: (Date, Treatment, Tilling)			
11/17/95 TREAT SOIL WITH 28-4-4 FERTILIZER, WATER, PLOW AND TILL SOIL.			
5/7/97 TREAT SOIL WITH 46-0-0 FERTILIZER, WATER, PLOW AND TILL SOIL.			
6/25/97 TILL SOIL.			
7/11/97 TILL SOIL.			
8/15/97 TREAT SOIL WITH 15LBS PHOSPHORUS, 7LBS LIME, WATER, PLOW AND TILL SOIL.			
5/1/98 PLOW SOIL.			
5/9/98 TILL SOIL.			

From excavation reports.

WELL NAME:

Apache #143

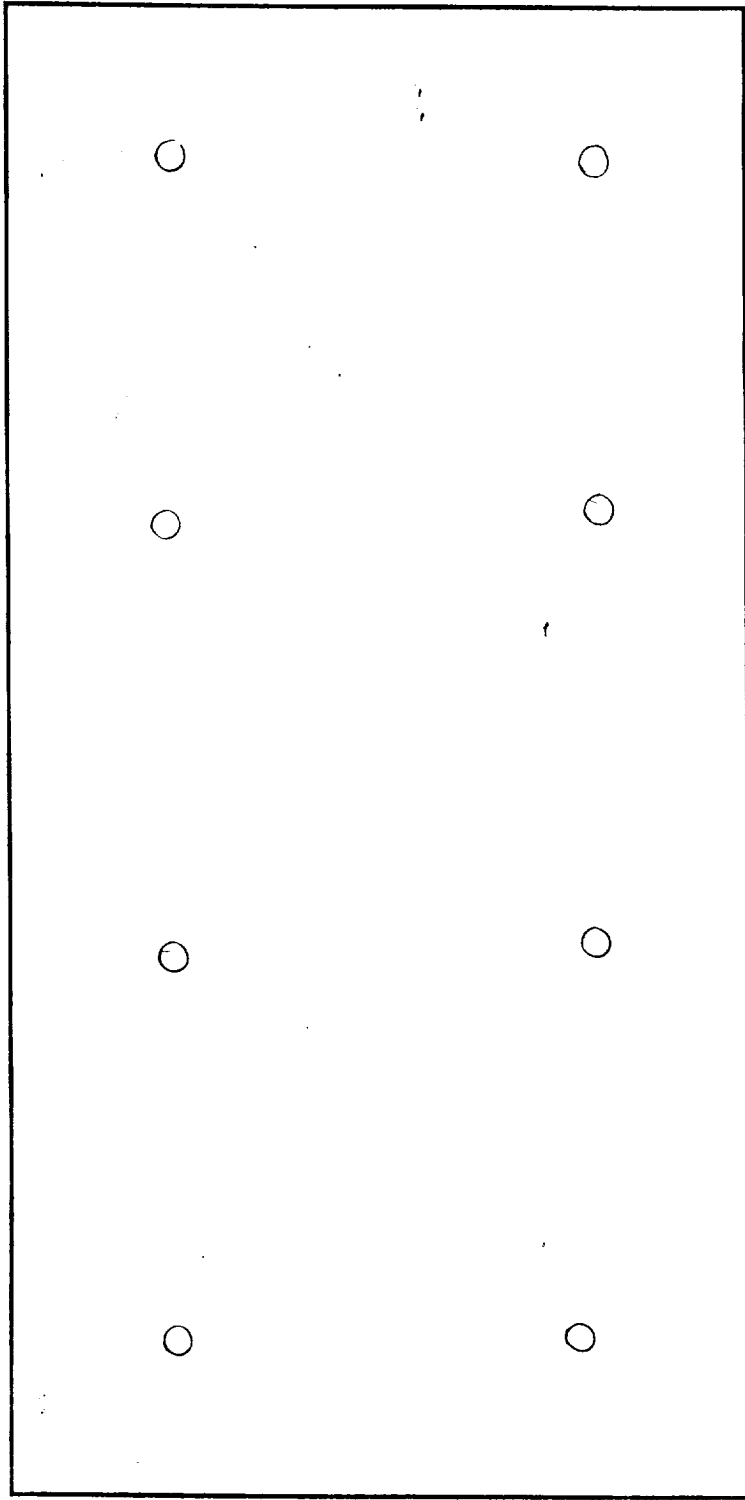
SAMPLE DATE:

5-12-98

DIMENSIONS:

100' x 15' x 12"

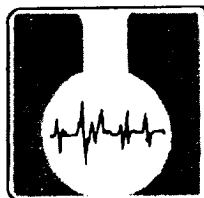
○ = SAMPLE AREA



NOTES:

ALL SAMPLES TAKEN 10" TO 12" INTO CELL.

8 point composite sample

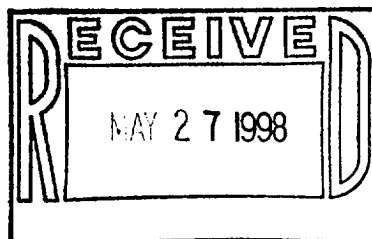


**ASSAIGAI  
ANALYTICAL  
LABORATORIES, INC.**

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

3332 Wedgewood, E-5 • El Paso, Texas 79925 • (915) 593-6000 • FAX (915) 593-7820

**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: **9805121 JICARILLA PIT CLOSURE**

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

Client Sample ID: **APACHE #143 CELL** Sample Matrix: **SOIL** Sample Collected: **05/12/98 14:15:00**

<u>Fraction</u>	<u>QC Group</u>	<u>CAS #</u>		<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>Detection Limit</u>	*	<u>Sequence</u>	<u>Run Date</u>	
SW846-8020 Volatiles											
9805121-01A	X98267	71-43-2		Benzene	ND	mg / Kg	50	0.005		XG.1998.464-8	05/14/98
	X98267	100-41-4		Ethylbenzene	ND	mg / Kg	50	0.005		XG.1998.464-8	
	X98267	95-47-6		o-Xylene	ND	mg / Kg	50	0.005		XG.1998.464-8	
	X98267			p/m Xylenes	ND	mg / Kg	50	0.01		XG.1998.464-8	
	X98267	108-88-3		Toluene	ND	mg / Kg	50	0.005		XG.1998.464-8	
SW846-8015 Modified TPH											
9805121-01B	X98268			Diesel Range Organics	ND	mg / Kg	25	25		XG.1998.465-11	05/15/98

\*\*\* Sample specific analytical Detection Limit is determined by multiplying the sample Dilution Factor by the listed method Detection Limit. \*\*\*





7300 JEFFERSON, N.E.  
ALBUQUERQUE, NEW MEXICO 87109  
(505) 345-8964

3332 WEDGEWOOD  
EL PASO, TEXAS 79925  
(915) 593-6000

Contract / Purchase Order / Quote \_\_\_\_\_

After analysis, samples to be:

☐ Disposed of (additional fee)

☐ Stored (30 days max)

☐ Stored over 30 days (additional fee)

☐ Returned to customer

LABORATORY