

District III

State of New Mexico

Submit 1 copy to

100 Rio Brazos Rd. S Energy, Minerals and Natural Resources Department
 Santa Fe, NM 87505
DEPUTY OIL & GAS INSPECTOR

Appropriate District

and 1 copy to

Santa Fe Office

OIL CONSERVATION DIVISION

2040 S. PACHECO

Santa Fe, New Mexico 87505

APR 10 1998

PIT REMEDIATION AND CLOSURE REPORT

Approved

Operator: Apache Corporation Telephone: 505-325-0318

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

Facility or Well Name: Apache # 119

Location: Unit or Qtr/Qtr Sec I Sec 12 T 24 N R 4W County Rio Arriba

Pit Type: Separator: _____ Dehydrator _____ Other TANK DRAIN (Blow Pit)

Land Type: Jicarilla Tribal

BEGINNING DIMENSIONS

Pit Location: END Pit Dimensions: Length 27' Width 28' Depth 10'

(Attach diagram)

Reference: Wellhead X Other _____

Footage from reference: 85'

Direction from reference: 75 Degrees XX East North X
 of 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)

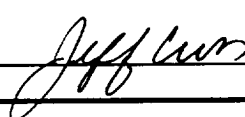
Wellhead Protection Area: Yes (20 points) _____
 (Less than 200 feet from a private No (0 points) 0
 domestic water source, or; less than
 1000 feet from all other water sources)

Distance To Surface Water: Less than 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) 0
 irrigation canals and ditches)

RANKING SCORE (TOTAL POINTS)

0

RECEIVED
 DEC 10 1997
OIL CON. DIV.
 DIST. 3

Date Remediation Started:		<u>8/23/95</u>	Date Completed:		<u>8/18/97</u>
Remediation Method: (Check all appropriate sections)		Excavatio	<u>XXX</u>	Approx. cubic yards	<u>280</u>
		Landfarmed	<u>XX</u>	Insitu Bioremediation	
		Other _____			
Remediation Location: (i.e. landfarmed onsite, name and location of offsite facility)		Onsite	<u>XX</u>	Offsite	
General Description of Remedial Action:		<u>Excavate pit to 10', took PID readings.</u>			
		<u>Spread soil on location for remediation. Took soil samples.</u>			
Groundwater Encountered:		No	<u>X</u>	Yes	Depth _____
Final Pit:	Sample location	<u>5 point composite taken from pit sidewalls and pit bottom center</u>			
Closure Sampling: (in multiple samples, attach sample results and diagram of sample locations and depths)	Sample depth	<u>8 to 10" into pit sidewalls 10" into pit bottom</u>			
	Sample Date	<u>9/15/95</u>	Sample Time	<u>3:50 P.M.</u>	
	Sample results				
	Benzene	(ppm)	<u>ND</u>		
	Total BTEX	(ppm)	<u>0.0079</u>		
	Field Headspace	(ppm)	<u>2.46</u>		
	TPH		<u>640</u>		
Groundwater Sample:		Yes		No	<u>X</u> (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		<u>November 5, 1997</u>		PRINTED NAME	<u>Jeff Cross</u>
SIGNATURE				AND TITLE	<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>304 N. BEHREND, FARMINGTON, N.M. 84701</u>			
Facility or Well Name: <u>APACHE # 119</u>			
Location:	Unit or Qtr/Qtr	Sec <u>I</u>	SEC 12 T 24N R 4W County <u>RIO ARRIBA</u>
Pit Type:	Separator: <u> </u>	Dehydrator: <u> </u>	Other <u>TANK DRAIN (BLOW PIT)</u>
Land Type: <u>JIC. TRIBAL</u>			
Pit Location: (Attach diagram)	Pit Dimensions:	Length <u>27'</u>	Width <u>28'</u> Depth <u>10'</u>
	Reference:	Wellhead <u>XXX</u>	Other <u> </u>
	Footage from reference:	<u>85'</u>	
	Direction from reference:	<u>75</u> Degrees <u>XX</u> East	North <u>X</u>
		<u> </u> West	of South <u> </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>

Date Remediation Started:		<u>8/23/95</u>		Date Completed:		<u>8-18-97</u>	
Remediation Method: (Check all appropriate sections)		Excavation <u>XXX</u>		Approx. cubic yards		<u>280</u>	
		Landfarmed <u>XX</u>		Insitu Bioremediation			
		Other					
Remediation Location: (i.e. landfarmed onsite, name and location of offsite facility)		Onsite <u>XX</u>		Offsite			
General Description of Remedial Action: <u>Excavate pit to 10', took PID readings. spread soil on location for remediation. Took soil samples.</u>							
Groundwater Encountered:		No <u>XXX</u>		Yes		Depth	
Final Pit:		Sample location <u>5 point composite taken from pit sidewalls and pit bottom center.</u>					
Closure Sampling: (in multiple samples, attach sample results and diagram of sample locations and depths)		Sample depth <u>8" to 10" into pit side walls, 10" into pit bottom.</u>					
Sample Date		<u>9/15/95</u>		Sample Time		<u>3:50PM</u>	
Sample results							
Soil:	Benzene	(ppm)	<u>ND</u>	Water:	Benzene	(ppb)	<u>NA</u>
	Total BTEX	(ppm)	<u>0.0079</u>		Toluene	(ppb)	<u>NA</u>
	Field Headspace	(ppm)	<u>2.46</u>		Ethylbenzene	(ppb)	<u>NA</u>
	TPH	(ppm)	<u>640</u>		Total Xylenes	(ppb)	<u>NA</u>
Groundwater Sample:		Yes		No <u>XXX</u>		(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		<u>8-26-97</u>		PRINTED NAME		<u>JEFF CROSS</u>	
SIGNATURE		<u>Jeff Cross</u>		AND TITLE		<u>PROJECT MANAGER</u>	
AFTER REVIEW OF THE PIT CLOSURE INFORMATION, PIT CLOSURE IS APPROVED IN ACCORDANCE TO THE JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE.							
APPROVED:		YES <u>X</u>		NO		(REASON)	
SIGNED:		<u>Jeff Cross</u>		DATE:		<u>9-2-97</u>	

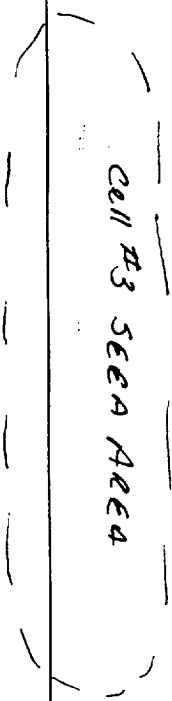
11



APACHE NUMBER 119 Lease # JAT 126

SECTION 12 TOWNSHIP 24N. RANGE 4W

APACHE
APACHE NUMBER 119 Lease # JAT 126
NE/4 SE/4 (1)
SECTION 12, TOWNSHIP 24N, RANGE 4W
R10 ARIZONA COUNTY, NM
Revised 6/1/97 MG



APACHE CORPORATION FARMINGTON DISTRICT PIT EXCAVATION AND CLOSURE REPORT

JICARILLA APACHE TRIBAL EPO
REVIEW AND APPROVAL

EPO REPRESENTATIVE K.C.

DATE OF REVIEW: 10/30/95

LOCATION: APACHE 119

1. BE

PIT COUNT: 1

EXCAVATION									
DIMENSIONS		START		FINISH				CU.YDS.	
	W'	L'	D'		W'	L'	D'		
PIT 1	21'	21'	3'	PIT 1	28'	27'	10'	280.0	
PIT 2				PIT 2					
PIT 3				PIT 3					
DATE: 08/23/95		PIT 1@ 07'	PIT 2@	PIT 3@	DATE: 09/15/95		PIT 1@ 10'	PIT 2@	PIT 3@
P. I. D.	CENTER	278.0			P. I. D.	CENTER	7.5		
	NW CORNER	385.0				NW CORNER	1.6		
	NE CORNER	485.0				NE CORNER	1.6		
	SW CORNER	560.0				SW CORNER	0.9		
	SE CORNER	412.0				SE CORNER	2.3		

NOTES:

08/23/95 Excavate to 10', staining and odor to 7'.

*High TPH & BTEX levels from 08/23 sampling @ 7'.

SOIL SAMPLING								
DATE: 08/23/95		PIT 1@ 07'	PIT 2@	PIT 3@	ANALYSIS RESULTS			PER LAB: ASSAIGAI
P.	CENTER	278.0			PIT NO.	TPH	BTEX	WITNESS DATE
I.	NW CORNER	385.0			1	26000.0	513.0	IF&S 08/23/95
D.	NE CORNER	485.0						
	SW CORNER	560.0						
	SE CORNER	412.0						

RE-SAMPLE OR CELL(S) SAMPLE

DATE: 09/15/95		PIT 1@ 10'	PIT 2@	PIT 3@	ANALYSIS RESULTS			PER LAB: ASSAIGAI
P.	CENTER	7.5			PIT NO.	TPH	BTEX	WITNESS DATE
I.	NW CORNER	1.6			1	640.0	0.007	JDT 09/15/95
D.	NE CORNER	1.6						
	SW CORNER	0.9						
	SE CORNER	2.3						

RE-SAMPLE OR CELL(S) SAMPLE

DATE:		PIT 1@	PIT 2@	PIT 3@	ANALYSIS RESULTS			PER LAB:
P.	CENTER				PIT NO.	TPH	BTEX	WITNESS DATE
I.	NW CORNER							
D.	NE CORNER							
	SW CORNER							
	SE CORNER							

TPH & BTEX ANALYSIS

Notes:

PID READINGS						Site Number: 119	
Date	Pit No.	Interval (Depth)	Location	Reading (ppm)	Notes:		
08/23/95	1	7'	Center	278	Starting depth: 3'. Excavated 4', took 5 part composite sample (PID 268). Excavated to 10' and took PID readings. Fluff and rolled 2'. Staining runs 5' down on the N. side to 7' down on the S. Downhill gradient runs N to S.		
08/23/95	1	7'	N.W. Corner	385			
08/23/95	1	7'	N.E. Corner	485			
08/23/95	1	7'	S.E. Corner	560			
08/23/95	1	7'	S.W. Corner	412			
09/15/95	1	10'	Center	7.5	PID Readings of samples before sending to the lab.		
09/15/95	1	10'	N.W. Corner	1.6			
09/15/95	1	10'	N.E. Corner	1.6			
09/15/95	1	10'	S.E. Corner	0.9			
09/15/95	1	10'	S.W. Corner	2.3			

Lab ID: 9509143-16A
Sample ID: AP# 138

Collected: 09/15/95 15:31:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Ethylbenzene	ND	mg/Kg	0.0010	5.0	09/22/95	SBTXME076
P-&m-Xylene	ND	mg/Kg	0.0010	5.0	09/22/95	SBTXME076
O-Xylene	ND	mg/Kg	0.0010	5.0	09/22/95	SBTXME076

Lab ID: 9509143-16B
Sample ID: AP# 138

Collected: 09/15/95 15:31:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
HCs DIESEL/CAL DHS 8015M						
Diesel	510	mg/Kg	5.0	20	09/26/95	SLFTD45
HCs DSL XT/CAL DHS 8015M	09/20/95	N/A				

Lab ID: 9509143-17A
Sample ID: AP# 119

Collected: 09/15/95 15:50:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/Kg	0.0010	5.0	09/22/95	SBTXME076
Toluene	ND	mg/Kg	0.0010	5.0	09/22/95	SBTXME076
Ethylbenzene	0.0079	mg/Kg	0.0010	5.0	09/22/95	SBTXME076
P-&m-Xylene	ND	mg/Kg	0.0010	5.0	09/22/95	SBTXME076
O-Xylene	ND	mg/Kg	0.0010	5.0	09/22/95	SBTXME076

Lab ID: 9509143-17B
Sample ID: AP# 119

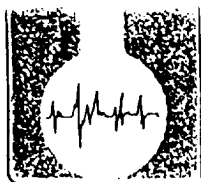
Collected: 09/15/95 15:50:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
HCs DIESEL/CAL DHS 8015M						
Diesel	640	mg/Kg	5.0	20	09/26/95	SLFTD45
HCs DSL XT/CAL DHS 8015M	09/20/95	N/A				

Lab ID: 9509143-18A
Sample ID: AP# 151H

Collected: 09/15/95 16:05:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/Kg	0.0010	5.0	09/25/95	SBTXME077
Toluene	ND	mg/Kg	0.0010	5.0	09/25/95	SBTXME077
Ethylbenzene	ND	mg/Kg	0.0010	5.0	09/25/95	SBTXME077
P-&m-Xylene	ND	mg/Kg	0.0010	5.0	09/25/95	SBTXME077



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:

September 13, 1995 08:21

CERTIFICATE OF ANALYSIS RESULTS BY SAMPLE

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

WORKORDER # : 9508243
WORK ID : PIT REMEDIATION 95017
CLIENT CODE : APA01
DATE RECEIVED : 08/29/95

ATTN: JOHN TAYLOR

Page: 1

Lab ID: 9508243-01A
Sample ID: PIT #119

Collected: 08/23/95 13:55:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
HCs DIESEL/CAL DHS 8015M Diesel	26000	mg/Kg	5.0	1000	09/07/95	SLFTD-041
HCs DSL XT/CAL DHS 8015M	08/30/95	N/A				

Lab ID: 9508243-01B
Sample ID: PIT #119

Collected: 08/23/95 13:55:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	36	mg/Kg	0.0010	20000	09/01/95	SBTXME072
Toluene	22	mg/Kg	0.0010	20000	09/01/95	SBTXME072
Ethylbenzene	55	mg/Kg	0.0010	20000	09/01/95	SBTXME072
P-&m-Xylene	340	mg/Kg	0.0020	20000	09/01/95	SBTXME072
O-Xylene	60	mg/Kg	0.0010	20000	09/01/95	SBTXME072

Lab ID: 9508243-02A
Sample ID: PIT #19

Collected: 08/19/95 14:45:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
HCs DIESEL/CAL DHS 8015M Diesel	ND	mg/Kg	5.0	5.0	09/05/95	SLFTD-041
HCs DSL XT/CAL DHS 8015M	08/30/95	N/A				

Lab ID: 9508243-02B
Sample ID: PIT #19

Collected: 08/19/95 14:45:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
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BTEX/SW846 8020A



Chain of Custody Record

7300 JEFFERSON, N.E.
ALBUQUERQUE, NEW MEXICO 87
(505) 345-9864

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

1910 N. BIG
MIDLAND, TE
(915) 57

Client Apache Corporation
Address 304 N. ~~Bethesda~~ Blvd
City / State / Zip FARMINGTON, NM. 87401
Project Name / Number Pit Remediation 95017
Contract / Purchase Order / Quote

Project Manager/ Contact John Taylor
Telephone No. (505) 325-0318
Fax No. (505) 325-0328
Samplers: (Signature) Scott D. Taylor

ALL FRACTION NUMBER	Field Sample Number	Location	Date	Time	Sample Type	Type / Size of Container	Preservation Temp.	Chemical
2010	P-1 # 119		8/23	1:55	Soil	4 oz. Soil	4°C	N/A
2011	P-1 # 119		8/23	1:55	Soil	4 oz. Soil		
2012	P-1 # 19		8/19	2:45	Soil	4 oz. Soil		
2013	P-1 # 19		8/19	2:45	Soil	4 oz. Soil		
2014								
2015								
2016								
2017								
2018								
2019								
2020								

Relinquished by: Signature <u>David Dudenhofer</u> Printed <u>David Dudenhofer</u> Company <u>Indiana Fire & Safety Inc.</u> Reason <u>Testing.</u>	Date <u>8/26/95</u> Time	Received by: Signature <u>William J. Carter</u> Printed <u>William J. Carter</u> Company <u>APC</u> Reason <u>APC</u>	Relinquished by: Signature <u>William J. Carter</u> Printed <u>William J. Carter</u> Company <u>AAL</u> Reason <u>William J. Carter</u>
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Date	9/25/55	Time	8:05 AM	Received by:	<i>James Beck</i>
				Signature	<i>AA</i>
				Printed	<i>AA</i>
				Company	<i>AA</i>
				Reason	

Method of Shipment: _____	Comments: <u>J Day TAT</u>
Shipment No. _____	
Special Instructions: _____	

After analysis, samples are to be:

☐ Disposed of (additional fee)

☐ Stored (30 days max)

☐ Stored over 30 days (additional fee)

☐ Returned to customer

COURIER

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>304 N. BEHREND, FARMINGTON, N.M. 87401</u>	
Facility or Well Name: <u>APACHE #119</u> CELL # <u>1</u>	
Location: Unit or Qtr/Qtr Sec <u>I</u> Sec <u>12</u> T <u>24N</u> R <u>4W</u> County <u>RIO ARRIBA</u>	
Land Type <u>JIC. TRIBAL</u>	
Date Remediation Started: <u>8/23/95</u> Date Completed: <u>8-18-97</u>	
Remediation Method: Landfarmed <u>XXX</u> Approx. cubic yards <u>214</u>	
Composted _____	
Other _____	
Depth to Groundwater: (pts) <u>0</u>	Final Closure Sampling Sampling Date: <u>8/18/97</u> Time: <u>8:30Am</u> Sample Results: Field Headspace (ppm) <u>4.4</u> TPH (ppm) <u>3200</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>	
RANKING SCORE (TOTAL POINTS) <u>0</u>	
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF	
DATE: <u>8-26-97</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>Ken C Mamm</u>	DATE: <u>9-2-97</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

ON-SITE SOIL REMEDIATION REPORT

Operator: <u>APACHE CORPORATION</u> Telephone <u>505-325-0318</u>	
Address: <u>304 N. BEHREND, FARMINGTON, N.M. 87401</u>	
Facility or Well Name: <u>APACHE # 119</u> CELL # <u>2</u>	
Location: Unit or Qtr/Qtr Sec <u>I</u> Sec <u>12</u> T <u>24N</u> R <u>4W</u> County <u>RIO ARRIBA</u>	
Land Type <u>JIC. TRIBAL</u>	
Date Remediation Started: <u>8/23/95</u> Date Completed: <u>8-18-97</u>	
Remediation Method: Landfarmed <u>XXX</u> Approx. cubic yards <u>44</u>	
Composted _____	
Other _____	
Depth to Groundwater: (pts) <u>0</u>	Final Closure Sampling Sampling Date: <u>8/18/97</u> Time: <u>9:00 AM</u> Sample Results: Field Headspace (ppm) <u>3.5</u> TPH (ppm) <u>4600</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>	
RANKING SCORE (TOTAL POINTS) <u>0</u>	
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF	
DATE: <u>8-26-97</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>Kenneth M. ...</u>	DATE: <u>9-2-97</u>

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

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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>304 N. BEHREND, FARMINGTON, N.M. 87401</u>			
Facility or Well Name: <u>APACHE # 119</u>		CELL # <u>3</u>	
Location:	Unit or Qtr/Qtr	Sec <u>I</u>	Sec <u>12</u> T <u>24N</u> R <u>4W</u> County <u>RIO ARRIBA</u>
Land Type <u>JIC. TRIBAL</u>			
Date Remediation Started: <u>8/23/95</u>		Date Completed: <u>8-18-97</u>	
Remediation Method: Landfarmed		<u>XXX</u>	Approx. cubic yards <u>22</u>
Composted		<u> </u>	
Other		<u> </u>	
Depth to Groundwater: (pts) <u>0</u>		Final Closure Sampling Sampling Date: <u>8/18/97</u> Time: <u> </u> Sample Results: Field Headspace (ppm) <u>0.4</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>			
RANKING SCORE (TOTAL POINTS) <u>0</u>			
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF			
DATE: <u>8-26-97</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 <u> </u> (REASON) <u> </u>			
SIGNED: <u>Steve C. Marshall</u>		DATE: <u>9-2-97</u>	

APACHE CORPORATION/FARMINGTON DISTRICT SOIL REMEDIATIONS STATUS REPORT

REMEDATION SITE APACHE # 119

* AMOUNT OF SOIL UNDERGOING REMEDIATION 280 Yds.

CELL No. <u>1</u>	SampDATE <u>8/18/97</u>	TPH <u>3200</u>	BTEX <u>ND</u>
DIMENSIONS(LxWxH) <u>100' L X 60' W X 12" H</u>			
CELL LOCATION (dir. from well head) <u>NORTH</u>			
* DATE BEGAN: <u>8/23/95</u>			
DATE TERMINATED (TPH <5,000 ppm/BTEX< 50 ppm/Benzene < 10 ppm) <u>8-18-97</u>			
CELL No. <u>2</u>	SampDATE <u>8/18/97</u>	TPH <u>ND</u>	BTEX <u>ND</u>
DIMENSIONS(LxWxH) <u>60' L X 20' W X 12" H</u>			
CELL LOCATION (dir. from well head) <u>NORTH</u>			
* DATE BEGAN: <u>8/23/95</u>			
DATE TERMINATED (TPH <5,000 ppm/BTEX< 50 ppm/Benzene < 10 ppm) <u>8-18-97</u>			
CELL No. <u>3</u>	SampDATE <u>8/18/97</u>	TPH <u>ND</u>	BTEX <u>ND</u>
DIMENSIONS(LxWxH) <u>20' L X 20' W X 18" H</u>			
CELL LOCATION (dir. from well head) <u>EAST</u>			
* DATE BEGAN: <u>8/23/95</u>			
DATE TERMINATED (TPH <5,000 ppm/BTEX< 50 ppm/Benzene < 10 ppm) <u>8-20-97</u>			
REMEDATION RECORD: (Date, Treatment, Tilling)			
5/25/97 TREAT CELLS WITH 46-0-0 FERT. WATER AND TILL SOIL.			
6/30/97 TILL CELLS.			
7/17/97 TILL CELLS.			
7/18/97 WATER AND TILL CELLS.			
8/13/97 TREAT CELL #1 WITH 59 LBS PHOSPHORUS, 148 LBS 46-0-0 FERT.			
8/13/97 TREAT CELL #2 WITH 13 LBS PHOSPHORUS, 33 LBS 46-0-0 FERT.			
8/13/97 WATER AND TILL CELLS.			

From excavation reports.

WELL NAME:

Apache #119 Cell #1

SAMPLE DATE:

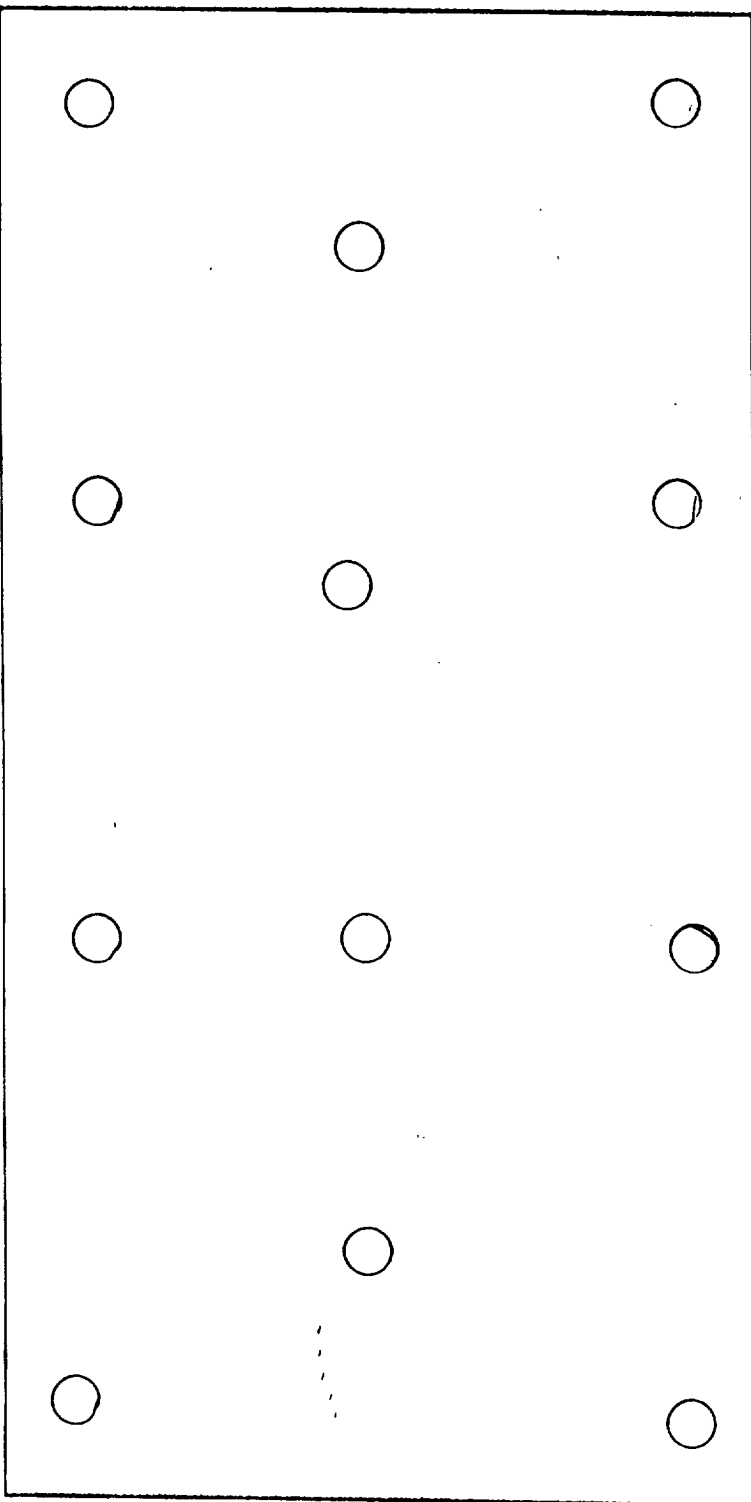
8-18-97

DIMENSIONS:

100' L x 60' W x 12" H



= SAMPLE AREA



NOTES:

ALL SAMPLES TAKEN 10' TO 12' INTO CELL

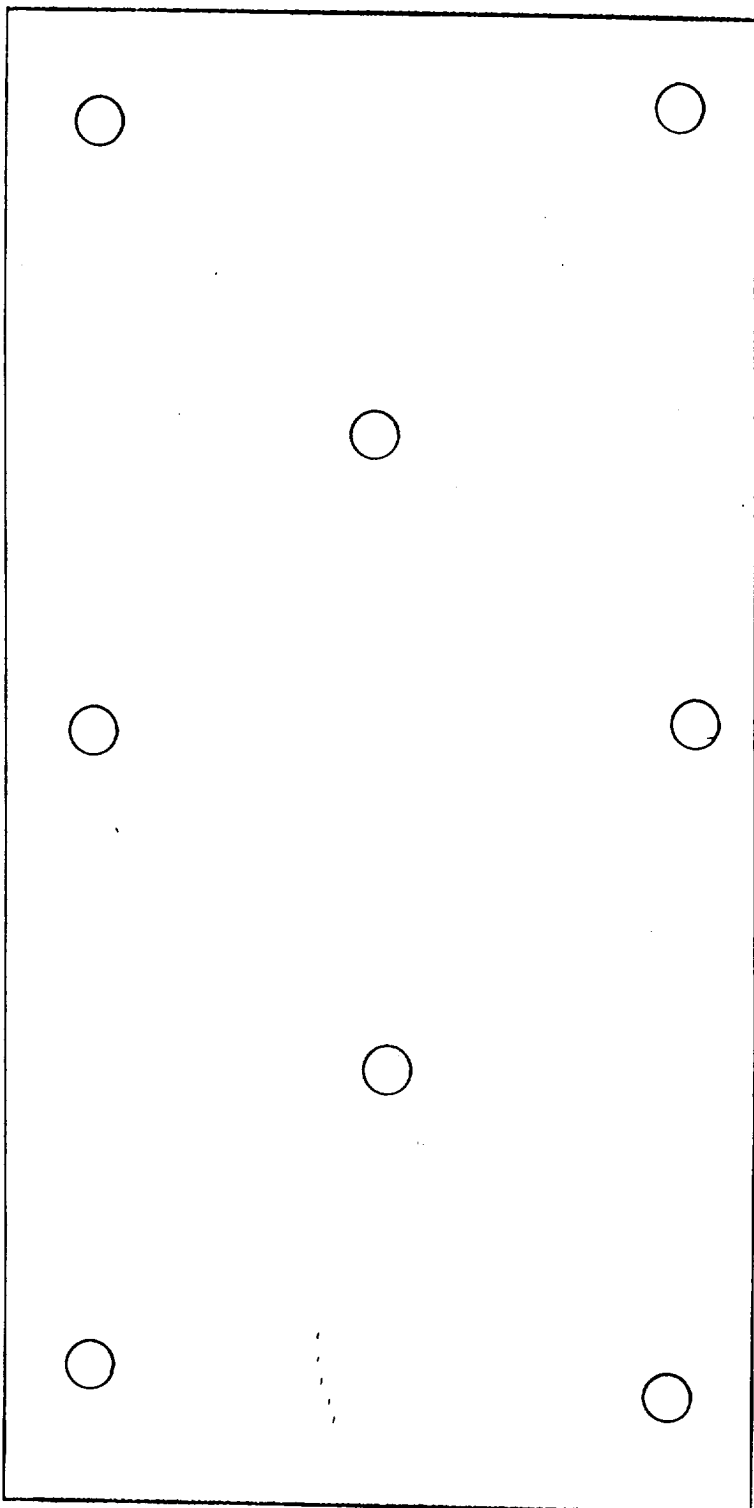
12 point composite sample

PID composite Reading 4.4 ppm.

WELL NAME:
SAMPLE DATE:
DIMENSIONS:

Apache #119 Cell #2
8-18-97
60' x 20' x 12" H

 = SAMPLE AREA



NOTES:

ALL SAMPLES TAKEN 10' TO 12' INTO CELL

8 point composite sample
PID Composite Reading 3.5 ppm.

WELL NAME:

Apache #119 Cell #3

SAMPLE DATE:

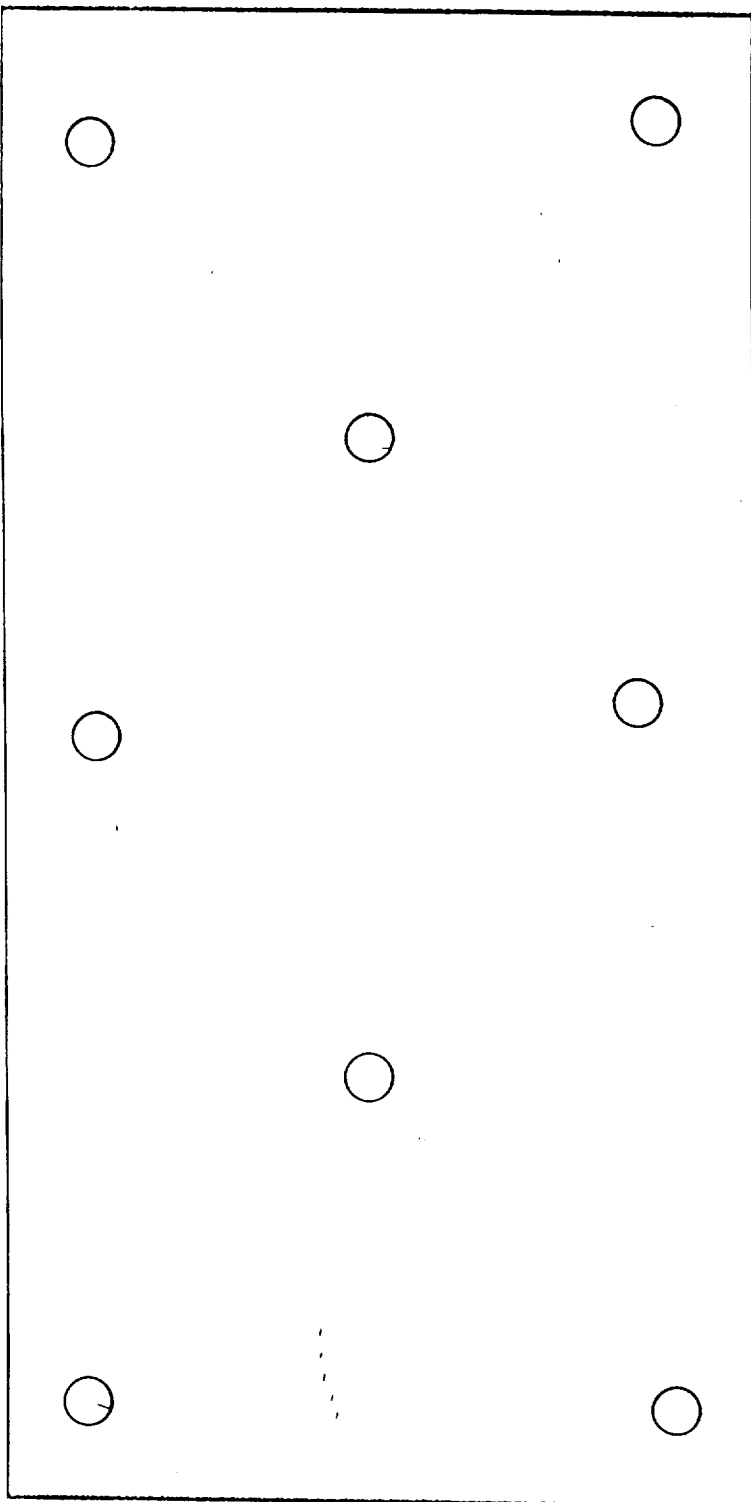
8-18-97

DIMENSIONS:

20' L x 20' W x 18" H



= SAMPLE AREA



NOTES:

ALL SAMPLES TAKEN 10" TO 12" INTO CELL

8 point composite sample

PID composite Reading 0.4 ppm.



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

Report Generated:
August 25, 1997 13:36

CERTIFICATE OF ANALYSIS RESULTS BY SAMPLE

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

WORKORDER # : 9708192
WORK ID : JICARILLA PIT CLOSURES
CLIENT CODE : APA01
DATE RECEIVED : 08/20/97

ATTN: JEFF CROSS

Page: 1

Lab ID: 9708192-01A
Sample ID: A 119 DIRT CELL #1

Collected: 08/18/97 08:30:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/kg	0.0050	100	08/21/97	SBTXME186
Toluene	ND	mg/kg	0.0050	100	08/21/97	SBTXME186
Ethylbenzene	ND	mg/kg	0.0050	100	08/21/97	SBTXME186
P-&m-Xylene	ND	mg/kg	0.010	100	08/21/97	SBTXME186
O-Xylene	ND	mg/kg	0.0050	100	08/21/97	SBTXME186

Lab ID: 9708192-01B
Sample ID: A 119 DIRT CELL #1

Collected: 08/18/97 08:30:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
Diesel Range OG Soil/M8015						
Diesel Range OG in Soil	3200	mg/Kg	25	25	08/21/97	SDRO049

Lab ID: 9708192-02A
Sample ID: A 119 DIRT CELL #2

Collected: 08/18/97 09:00:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/kg	0.0050	100	08/21/97	SBTXME186
Toluene	ND	mg/kg	0.0050	100	08/21/97	SBTXME186
Ethylbenzene	ND	mg/kg	0.0050	100	08/21/97	SBTXME186
P-&m-Xylene	ND	mg/kg	0.010	100	08/21/97	SBTXME186
O-Xylene	ND	mg/kg	0.0050	100	08/21/97	SBTXME186



Lab ID: 9708192-02B
Sample ID: A 119 DIRT CELL #2

Collected: 08/18/97 09:00:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
Diesel Range OG Soil/M8015 Diesel Range OG in Soil	4600	mg/Kg	25	25	08/21/97	SDRO049

Lab ID: 9708192-03A
Sample ID: A 119 DIRT CELL #3

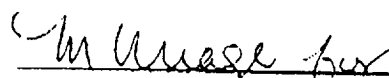
Collected: 08/20/97 09:30:00
Matrix: SOIL

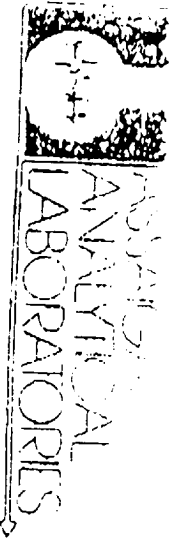
TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/kg	0.0050	100	08/22/97	X97223
Toluene	ND	mg/kg	0.0050	100	08/22/97	X97223
Ethylbenzene	ND	mg/kg	0.0050	100	08/22/97	X97223
P-&m-Xylene	ND	mg/kg	0.010	100	08/22/97	X97223
O-Xylene	ND	mg/kg	0.0050	100	08/22/97	X97223

Lab ID: 9708192-03B
Sample ID: A 119 DIRT CELL #3

Collected: 08/20/97 09:30:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
Diesel Range OG Soil/M8015 Diesel Range OG in Soil	ND	mg/Kg	25	25	08/22/97	SDRO047


William P. Biava
President



Chain of Custody Record

Lab No.

8192 Date 8-20-97

ALBUQUERQUE NEW MEXICO 87103
(505) 345-8964

3332 WEDGEWOOD
EL PASO, TEXAS 79925
(915) 591-6000

1910 N. BIG SPRING
MIDLAND, TEXAS 79705
(915) 570-1116

Client Apache Corporation

Project Manager / Contact Jeff E. Cross

MELQUIADES ALANIS

Address 304 N. Behrend

Telephone No. (505) 774-6643

6411 LOCAL UNO
CIUDAD JUAREZ, CHIHUAHUA MEXICO 32320

City / State / Zip Alamogordo, NM 87401

Fax No. (505) 774-6624

Project Name / Number JICARILLA PIT CLOSURES

Samplers (Signature) Jeff E. Cross

Contract / Purchase Order / Quote

Lab Function	Field Sample Number / Location	Date	Time	Sample Type	Type / Size of Container	Preservation		No. of Containers	Remarks
						Temp	Chemical		
1A	H 119 Ditch #1	8-18-97	8:30	So. 1	1102 Glass	ICE	1	X	BTEX ORP (mod. 80's)
1B									
2A	H 119 Ditch Cell #2		9:00				1	X	
2B							1	X	
3A	H 119 Ditch Cell #3		9:30				1	X	
3B							1	X	

Requested by:		Received by:		Retransmitted by:		Use		Received by:	
Signature	Printed	Signature	Printed	Signature	Printed	Time	Printed	Signature	Printed
<i>[Signature]</i>	Jeff E. Cross	<i>[Signature]</i>	Scott Pratt	<i>[Signature]</i>	Scott Pratt	20 Aug		<i>[Signature]</i>	Carla Rubio
Company	Apache Corp.	Company	NAL	Company	NAL	16:10		Company	ANL
Reason	8:07 AM	Reason		Reason				Reason	

Comments:

After analysis, samples are to be:
☐ Disposed of (additional fee)
☐ Stored (30 days max)
☐ Stored over 30 days (additional fee)
☐ Returned to customer

LABORATORY