

District III
1000 Rio Brazos Rd
Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department

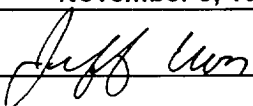
Submit 1 copy to
Appropriate District
and 1 copy to
Santa Fe Office

OIL CONSERVATION DIVISION
2040 S. PACHECO
Santa Fe, New Mexico 87505

PIT REMEDIATION AND CLOSURE REPORT

Approved

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>Apache # 115</u>	<u>Pit #2</u>
Location: Unit or Qtr/Qtr Sec		<u>M</u> <u>Sec 3</u> <u>T 24 N</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>Jicarilla Tribal</u>			
Pit Location Dimensions			
Pit Location: <u>END</u> Pit Dimensions:		Length <u>42'</u>	Width <u>35'</u>
(Attach diagram)		Length <u>45'</u>	Width <u>45'</u>
Reference:		Wellhead <u>X</u>	Other <u> </u>
Footage from reference:		<u>180'</u>	
Direction from reference:		<u>264</u> Degrees	East <u> </u>
		<u>XX</u> West	North <u> </u>
			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)			
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 200 feet (20 points) <u> </u>	
(Horizontal distance to perennial		200 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:		<u>8/8/95</u>	Date Completed:		<u>6/13/97</u>
Remediation Method: (Check all appropriate sections)		Excavation <u>XXX</u>	Approx. cubic yards		<u>332</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 14', 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>9:10 A.M.</u>
	Sample results				
	Benzene	(ppm)	<u>ND</u>		
	Total BTEX	(ppm)	<u>ND</u>		
	Field Headspace	(ppm)	<u>5.9</u>		
	TPH		<u>ND</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 # 115</u>		PIT # <u>2</u>	
Location:	Unit or Qtr/Qtr Sec <u>M SEC 3</u>	T <u>24N</u>	R <u>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>45'</u>	Width <u>45'</u>	Depth <u>14'</u>
Reference:	Wellhead <u>XXX</u>	Other <u> </u>	
Footage from reference:	<u>180'</u>		
Direction from reference:	<u>264</u> Degrees	East <u> </u>	North <u> </u>
		West <u>XX</u>	South <u>X</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>	

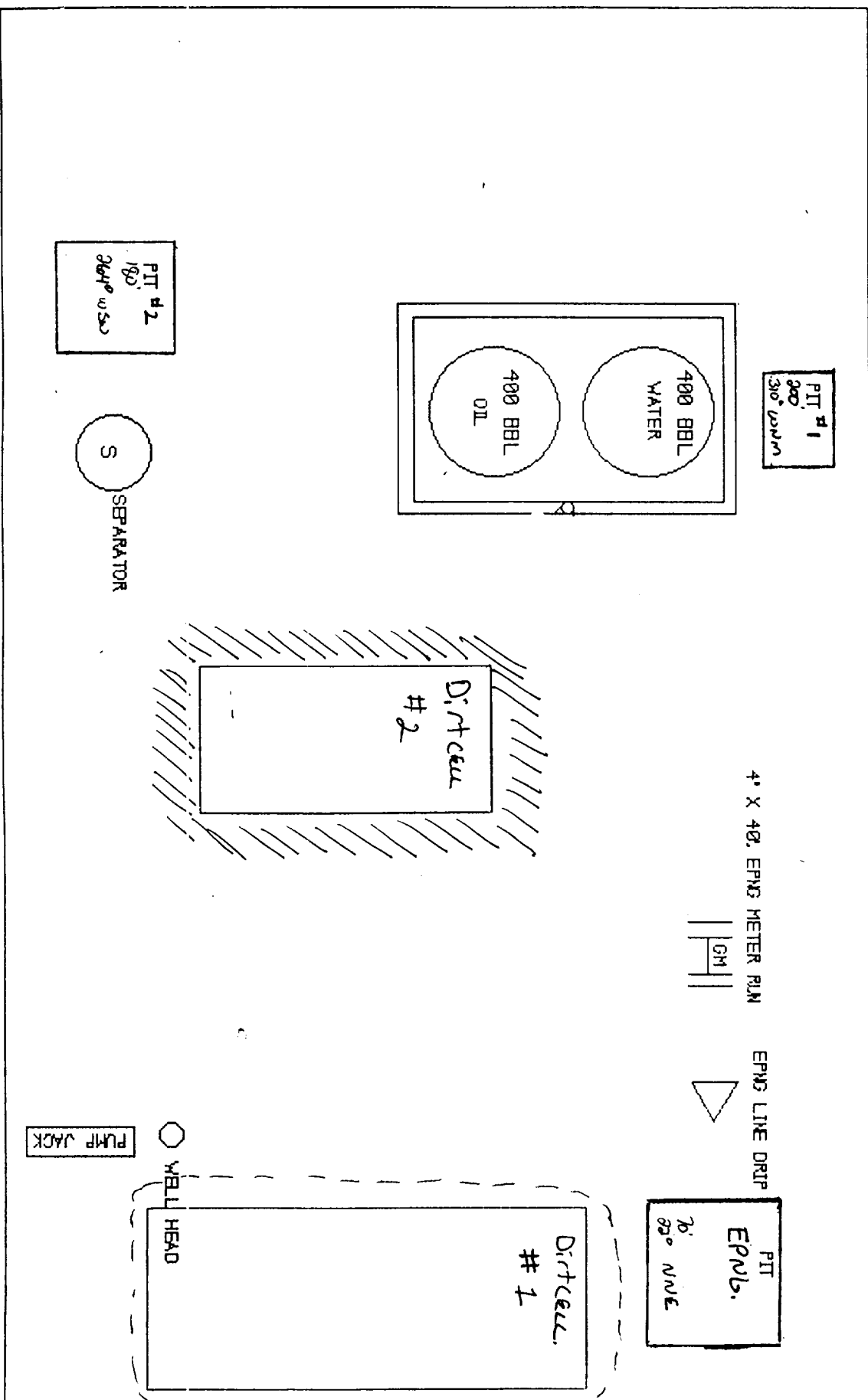
Date Remediation Started:		<u>8/8/95</u>		Date Completed:		<u>6/13/97</u>	
Remediation Method: (Check all appropriate sections)		Excavation <u>XXX</u>		Approx. cubic yards		<u>332</u>	
		Landfarmed <u>XX</u>		Insitu Bioremediation			
		Other _____					
Remediation Location: (i.e. landfarmed onsite, name and location of offsite facility)		Onsite <u>XX</u>		Offsite _____			
General Description of Remedial Action: <u>Excavate pit to 14', took PID readings. spread soil on</u>							
<u>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>9:10AM</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>5.9</u>		Ethylbenzene	(ppb)	<u>NA</u>
	TPH	(ppm)	<u>ND</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>8-22-97</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>Ken C. Mammell</u>		DATE:		<u>9-2-97</u>	

 = SEED AREA
 = Spread Area

NORTH

 GENERAL DRAINAGE

APACHE
 APACHE NUMBER 115 Lease # JAT 127
 SW/4 SW/4 (M)
 SECTION 3, TOWNSHIP 24N, RANGE 4W
 RIO ARriba COUNTY, NM
 Revised 8/1/97 MG



APACHE CORPORATION FARMINGTON DISTRICT PIT EXCAVATION AND CLOSURE REPORT

LOCATION: APACHE 115
PIT COUNT: 2

JICARILLA APACHE TRIBAL EPO
REVIEW AND APPROVAL
EPO REPRESENTATIVE K.C.
DATE OF REVIEW: 10/30/95

		EXCAVATION						
DIMENSIONS		START		FINISH				
	W'	L'	D'		W'	L'	D'	CU.YDS.
PIT 1	24'	27'	5'	PIT 1	24'	34'	14'	500.0
PIT 2	35'	42'	5'	PIT 2	45'	45'	14'	580.0
PIT 3				PIT 3				
DATE: 08/08/95		PIT 1@ 14'	PIT 2@ 14.5'	PIT 3@	DATE: 09/15/95	PIT 1@ 14'	PIT 2@ 14'	PIT 3@
P. I. D.	CENTER	210.0	24.5		P. I. D.	CENTER	3.6	2.1
	NW CORNER	not taken	not taken			NW CORNER	0.0	2.2
	NE CORNER	"	"			NE CORNER	0.0	2.4
	SW CORNER	"	"			SW CORNER	0.0	1.7
	SE CORNER	"	"			SE CORNER	0.0	21.1

NOTES:

08/08/95 PIT 1 - Excavate to 14', staining and odor to 12'.
PIT 2 - Excavate to 14', staining and odor to 10.5'

SOIL SAMPLING

DATE: 08/08/95		PIT 1@ 14'	PIT 2@ 14.5'	PIT 3@	ANALYSIS RESULTS		PER LAB: ASSAIGAI	
P. I. D.	CENTER	210.0	24.5		PIT NO.	TPH	BTEX	WITNESS DATE
	NW CORNER	not taken	not taken					
	NE CORNER	"	"		1	480.0	ND	IF&S 08/25/95
	SW CORNER	"	"		2	3300.0	ND	IF&S 08/25/95
	SE CORNER	"	"					

RE-SAMPLE OR CELL(S) SAMPLE

DATE: 09/15/95		PIT 1@ 14'	PIT 2@ 14'	PIT 3@	ANALYSIS RESULTS		PER LAB: ASSAIGAI	
P. I. D.	CENTER	3.6	2.1		PIT NO.	TPH	BTEX	WITNESS DATE
	NW CORNER	0.0	2.2					
	NE CORNER	0.0	2.4		1	ND	ND	JDT 09/15/95
	SW CORNER	0.0	1.7		2	ND	ND	JDT 09/15/95
	SE CORNER	0.0	21.1					

RE-SAMPLE OR CELL(S) SAMPLE

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

TPH & BTEX ANALYSIS

Notes:

PID READINGS						Site Number: 115	Notes:
Date	Pit No.	Interval (Depth)	Location	Reading (ppm)			
08/08/95	1	9'	Center of Pit	2215		Visible sidewall and bottom staining from both the bottom and sides of the pit. South pit sidewalls are sloughing and endangering the O & W vessels.	
08/08/95	1	12'	Center of Pit	2148			
08/08/95	1	14'	Center of Pit	210			
08/09/95	2	6'	Center of Pit	>2500		Partial backfilled the drip pit and continued to excavate. Excavation terminated when pit walls and backfill sloughed.	
08/09/95	2	8'	Center of Pit	>2500			
08/09/95	2	10.5'	Center of Pit	>2500			
08/09/95	2	13'	Center of Pit	75.8			
08/09/95	2	14.5'	Center of Pit	24.5			
09/15/95	1	14'	N.W. Corner	3.6		PID Reading of bottom samples before being sent to Lab.	
09/15/95	2	14'	N.E. Corner	2.1			
09/15/95	2	14'	N.W. Corner	2.2			
09/15/95	2	14'	S.E. Corner	2.4			
09/15/95	2	14'	S.W. Corner	1.7			
09/15/95	2	14'	Bottom Center	21.1			

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:
October 2, 1995 11:50

**CERTIFICATE OF ANALYSIS
RESULTS BY SAMPLE**

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

WORKORDER # : 9509143
WORK ID : PIT REMEDIATION 95017
CLIENT CODE : APA01
DATE RECEIVED : 09/18/95

ATTN: JOHN TAYLOR

Page: 1

Lab ID: 9509143-01A
Sample ID: AP #115H *PIT #1*

Collected: 09/15/95 08:51:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
ETEX/SW846 8020A						
Benzene	ND	mg/Kg	0.0010	50	09/21/95	SBTXME075
Toluene	ND	mg/Kg	0.0010	50	09/21/95	SBTXME075
Ethylbenzene	ND	mg/Kg	0.0010	50	09/21/95	SBTXME075
P-&m-Xylene	ND	mg/Kg	0.0010	50	09/21/95	SBTXME075
O-Xylene	ND	mg/Kg	0.0010	50	09/21/95	SBTXME075

Lab ID: 9509143-01B
Sample ID: AP #115H *PIT #1*

Collected: 09/15/95 08:51:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
HCs DIESEL/CAL DHS 8015M						
Diesel	ND	mg/Kg	5.0	100	09/22/95	SLFTD44
HCs DSL XT/CAL DHS 8015M	09/19/95	N/A				

Lab ID: 9509143-02A
Sample ID: AP# 115C *PIT #2*

Collected: 09/15/95 09:10:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/Kg	0.0010	5.0	09/21/95	SBTXME075
Toluene	ND	mg/Kg	0.0010	5.0	09/21/95	SBTXME075
Ethylbenzene	ND	mg/Kg	0.0010	5.0	09/21/95	SBTXME075
P-&m-Xylene	ND	mg/Kg	0.0010	5.0	09/21/95	SBTXME075
O-Xylene	ND	mg/Kg	0.0010	5.0	09/21/95	SBTXME075



b ID: 9509143-02B
 sample ID: AP# 115C

pit#2

Collected: 09/15/95 09:10:00
 Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
HCs DIESEL/CAL DHS 8015M	ND	mg/Kg	5.0	50	09/22/95	SLFTD44
Diesel	09/19/95	N/A				
HCs DSL XT/CAL DHS 8015M						

Lab ID: 9509143-03A
 Sample ID: AP# 157H

Collected: 09/15/95 11:48:00
 Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/Kg	0.0010	5.0	09/21/95	SBTXME075
Toluene	ND	mg/Kg	0.0010	5.0	09/21/95	SBTXME075
Ethylbenzene	ND	mg/Kg	0.0010	5.0	09/21/95	SBTXME075
P-&m-Xylene	ND	mg/Kg	0.0010	5.0	09/21/95	SBTXME075
O-Xylene	ND	mg/Kg	0.0010	5.0	09/21/95	SBTXME075

Lab ID: 9509143-03B
 Sample ID: AP# 157H

Collected: 09/15/95 11:48:00
 Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
HCs DIESEL/CAL DHS 8015M	ND	mg/Kg	5.0	10	09/21/95	SLFTD44
Diesel	09/19/95	N/A				
HCs DSL XT/CAL DHS 8015M						

Lab ID: 9509143-04A
 Sample ID: AP# 157C

Collected: 09/15/95 10:30:00
 Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/Kg	0.0010	5.0	09/21/95	SBTXME075
Toluene	ND	mg/Kg	0.0010	5.0	09/21/95	SBTXME075
Ethylbenzene	ND	mg/Kg	0.0010	5.0	09/21/95	SBTXME075
P-&m-Xylene	ND	mg/Kg	0.0010	5.0	09/21/95	SBTXME075
O-Xylene	ND	mg/Kg	0.0010	5.0	09/21/95	SBTXME075

Lab ID: 9509143-04B
 Sample ID: AP# 157C

Collected: 09/15/95 10:30:00
 Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
HCs DIESEL/CAL DHS 8015M	ND	mg/Kg	5.0	5.0	09/21/95	SLFTD44
Diesel	09/19/95	N/A				
HCs DSL XT/CAL DHS 8015M						

Chain of Custody Record

7300 JEFFERSON, N.E.
ALBUQUERQUE, NEW MEXICO 87116
(505) 345-8964

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

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

MELQUIADES ALANIS

6411 LOCAL UNO
CIUDAD JUAREZ, CHIHUAHUA MEXICO 32320

Client Apache Corporation Project Manager/Contact John Taylor

Address 304 N. Behrend
Telephone No. (505) 325-0318

City / State / Zip FARMINGTON, N.M. 87401 Fax No. (505) 375-0325

Project Name / Number P.1 Remediation 75017 Samplers: (Signature) [Signature]

Contract / Purchase Order / Quote _____

AAL FRAC- TION NUMBER	Field Sample Number/Location	Date	Time	Sample Type	Type / Size of Container	Preservation.	
						Temp.	Chemical
01A	AP # 115 H	9/15	8:51	Soil	Glass	50°	ICE
01B	AP # 115 H	9/15	8:56				
02A	AP # 15C	9/15	9:10				
02B	AP # 15C	9/15	9:10				
03A	AP # 157 H	9/15	11:48				
03B	AP # 157 H	9/15	11:48				
04A	AP # 157C	9/15	10:30				
04B	AP # 157C	9/15	10:30				
05A	AP # 158 H	9/15	11:07				
05B	AP # 158 H	9/15	11:07				
06A	AP # 158C	9/15	12:00				
06B	AP # 158C	9/15	12:00				

Inquired by: Signature <u>Donna Dwyer</u> Printed <u>Donna Dwyer</u> Company <u>Training Fire 4 Safety</u> Reason <u>Testing</u>	Date <u>9/15/15</u>	Received by: Signature <u>William J. Carter</u> Printed <u>William J. Carter</u> Company <u>ATC</u> Reason _____	Relinquished by: Signature <u>William J. Carter</u> Printed <u>William J. Carter</u> Company _____ Reason <u>Test</u>

Method of Shipment: _____	Comments: _____ _____ _____ _____
Shipment No. _____	
Special Instructions: _____	

COURIER

Lab ID: 9508243-09A
 Sample ID: PIT #115-D *pit #1*

Collected: 08/25/95 14:15:00
 Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
HCs DIESEL/CAL DHS 8015M Diesel	480	mg/Kg	5.0	25	09/08/95	SLFTD-041
HCs DSL XT/CAL DHS 8015M	08/30/95	N/A				

Lab ID: 9508243-09B
 Sample ID: PIT #115-D *pit #1*

Collected: 08/25/95 14:15:00
 Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
3TEX/SW846 8020A						
Benzene	ND	mg/Kg	0.0010	5.0	08/30/95	SBTXME071
Toluene	ND	mg/Kg	0.0010	5.0	08/30/95	SBTXME071
Ethylbenzene	ND	mg/Kg	0.0010	5.0	08/30/95	SBTXME071
P-&m-Xylene	ND	mg/Kg	0.0020	5.0	08/30/95	SBTXME071
O-Xylene	ND	mg/Kg	0.0010	5.0	08/30/95	SBTXME071

Lab ID: 9508243-10A
 Sample ID: PIT #115-S *pit 2*

Collected: 08/25/95 13:30:00
 Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
HCs DIESEL/CAL DHS 8015M Diesel	3300	mg/Kg	5.0	100	09/08/95	SLFTD-041
HCs DSL XT/CAL DHS 8015M	08/30/95	N/A				

Lab ID: 9508243-10B
 Sample ID: PIT #115-S *pit 2*

Collected: 08/25/95 13:30:00
 Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
3TEX/SW846 8020A						
Benzene	ND	mg/Kg	0.0010	50	09/01/95	SBTXME072
Toluene	ND	mg/Kg	0.0010	50	09/01/95	SBTXME072
Ethylbenzene	ND	mg/Kg	0.0010	50	09/01/95	SBTXME072
P-&m-Xylene	ND	mg/Kg	0.0020	50	09/01/95	SBTXME072
O-Xylene	ND	mg/Kg	0.0010	50	09/01/95	SBTXME072

Lab ID: 9508243-11A
 Sample ID: PIT #115-D

Collected: 08/25/95 13:35:00
 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				

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 # 115</u>		CELL # <u>1</u>	
Location:	Unit or Qtr/Qtr Sec <u>M</u>	Sec <u>3</u>	T <u>24N</u> R <u>4W</u> County <u>RIO ARRIBA</u>
Land Type	<u>JIC. TRIBAL</u>		
Date Remediation Started: <u>8/8/95</u>		Date Completed: <u>8-12-97</u>	
Remediation Method:	Landfarmed <u>XXX</u>	Approx. cubic yards	<u>266</u>
	Composted <u> </u>		
	Other <u> </u>		
Depth to Groundwater: (pts) <u>0</u>		Final Closure Sampling Sampling Date: <u>8/12/97</u> Time: <u>2:00 AM</u> Sample Results: Field Headspace (ppm) <u>1.3</u> TPH (ppm) <u>3300</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>8-22-97</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>Joe C. Mann</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 # 115</u> CELL # <u>2</u>	
Location: Unit or Qtr/Qtr Sec <u>M</u> Sec <u>3</u> T <u>24N</u> R <u>4W</u> County <u>RIO ARRIBA</u>	
Land Type <u>JIC. TRIBAL</u>	
Date Remediation Started: <u>8/8/95</u> Date Completed: <u>6/13/97</u>	
Remediation Method: Landfarmed <u>XXX</u> Approx. cubic yards <u>266</u>	
Composted _____	
Other _____	
Depth to Groundwater: (pts) <u>0</u>	Final Closure Sampling Sampling Date: <u>6/13/97</u> Time: <u>10:30AM</u> Sample Results: Field Headspace (ppm) <u>2.7</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>8-22-97</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>Jeff Cross</u> DATE: <u>9-2-97</u>	

APACHE CORPORATION/FARMINGTON DISTRICT SOIL REMEDIATIONS STATUS REPORT

REMEDIATION SITE APACHE # 115

* AMOUNT OF SOIL UNDERGOING REMEDIATION 540 Yds.

CELL No. <u>1</u>	SampDATE 6/30/97	TPH 5700	BTEX ND
	8/12/97	3300	ND
DIMENSIONS(LxWxH) <u>120' L X 40' W X 18" H</u>			
CELL LOCATION (dir. from well head) <u>EAST</u>			
* DATE BEGAN: <u>8/8/95</u>			
DATE TERMINATED (TPH <5,000 ppm/BTEX< 50 ppm/Benzene < 10 ppm) <u>8-12-97</u>			
CELL No. <u>2</u>	SampDATE 6/13/97	TPH ND	BTEX ND
DIMENSIONS(LxWxH) <u>80' L X 60' W X 18" H</u>			
CELL LOCATION (dir. from well head) <u>NORTH</u>			
* DATE BEGAN: <u>8/8/95</u>			
DATE TERMINATED (TPH <5,000 ppm/BTEX< 50 ppm/Benzene < 10 ppm) <u>6/13/97</u>			
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)			
REMEDICATION RECORD: (Date, Treatment, Tilling)			
5/22/97 TREAT CELLS WITH 46-0-0 FERTILIZER , WATER AND TILL.			
6/3/97 TILL CELLS.			
6/13/97 SAMPLE CELL #2 (PASSED)			
6/25/97 WATER AND TILL CELL #1			
6/30/97 TILL CELL # 1.			
8/12/97 WATER AND TILL CELL # 1 (SENT SOIL SAMPLES TO LAB)			

From excavation reports.

WELL NAME: Apache #115 cell #1 Resample.

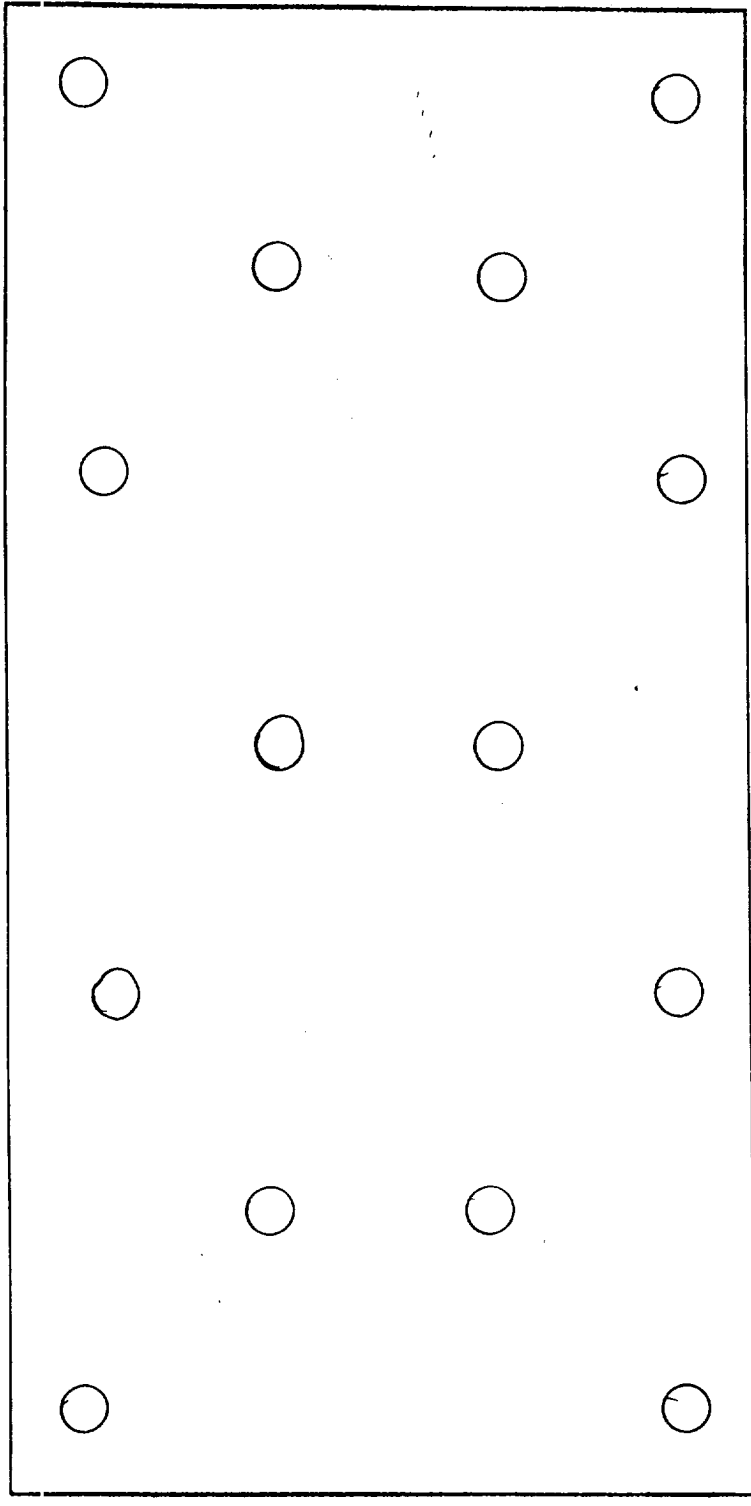
SAMPLE DATE:

8-12-97

DIMENSIONS:

120' L X 40' W X 18" H

○ = SAMPLE AREA



NOTES:

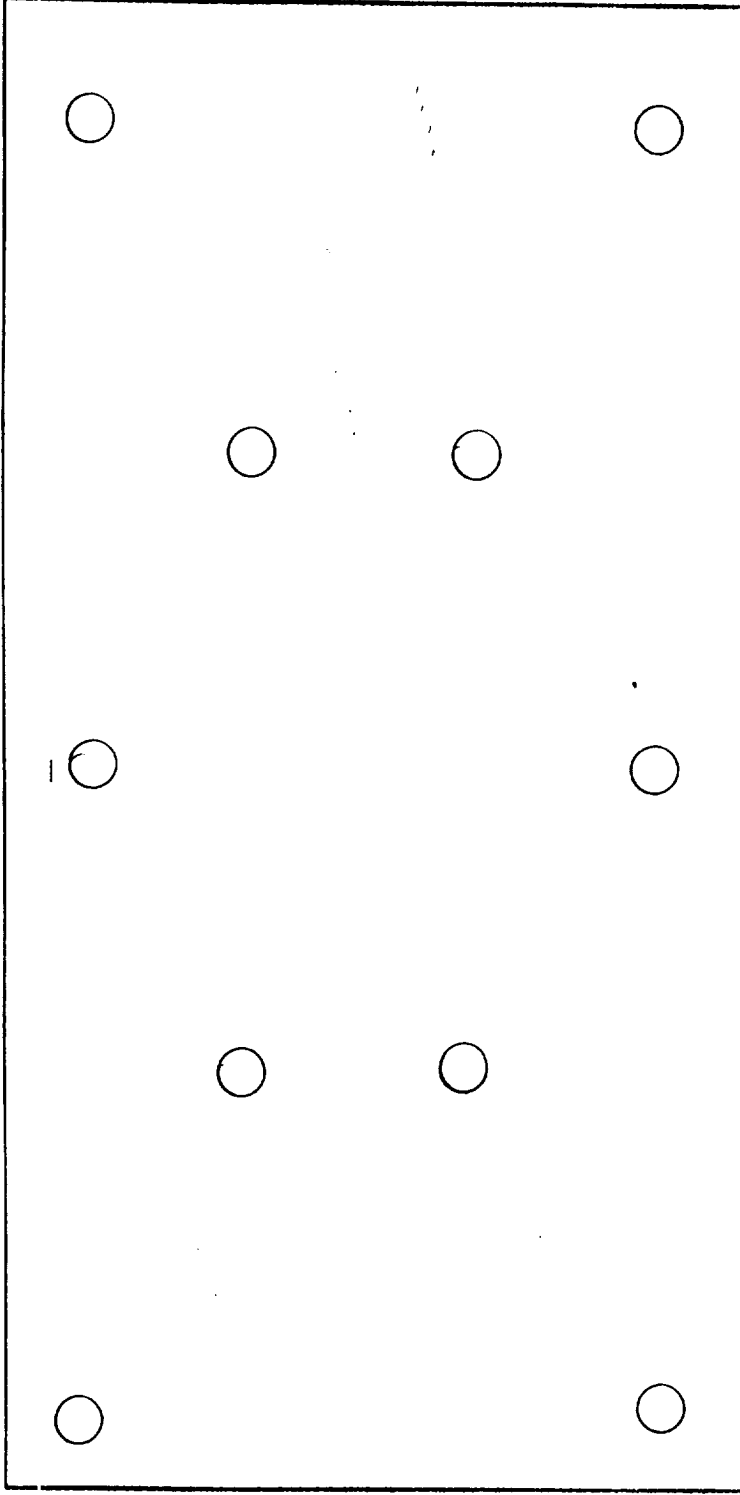
ALL SAMPLES TAKEN 10" TO 12" INTO CELL

Took 14 point composite sample

PID composite Reading 1.3 ppm.

WELL NAME: Apache #115 cell #1
SAMPLE DATE: 6-30-97
DIMENSIONS: 120' L x 40' W x 18" H

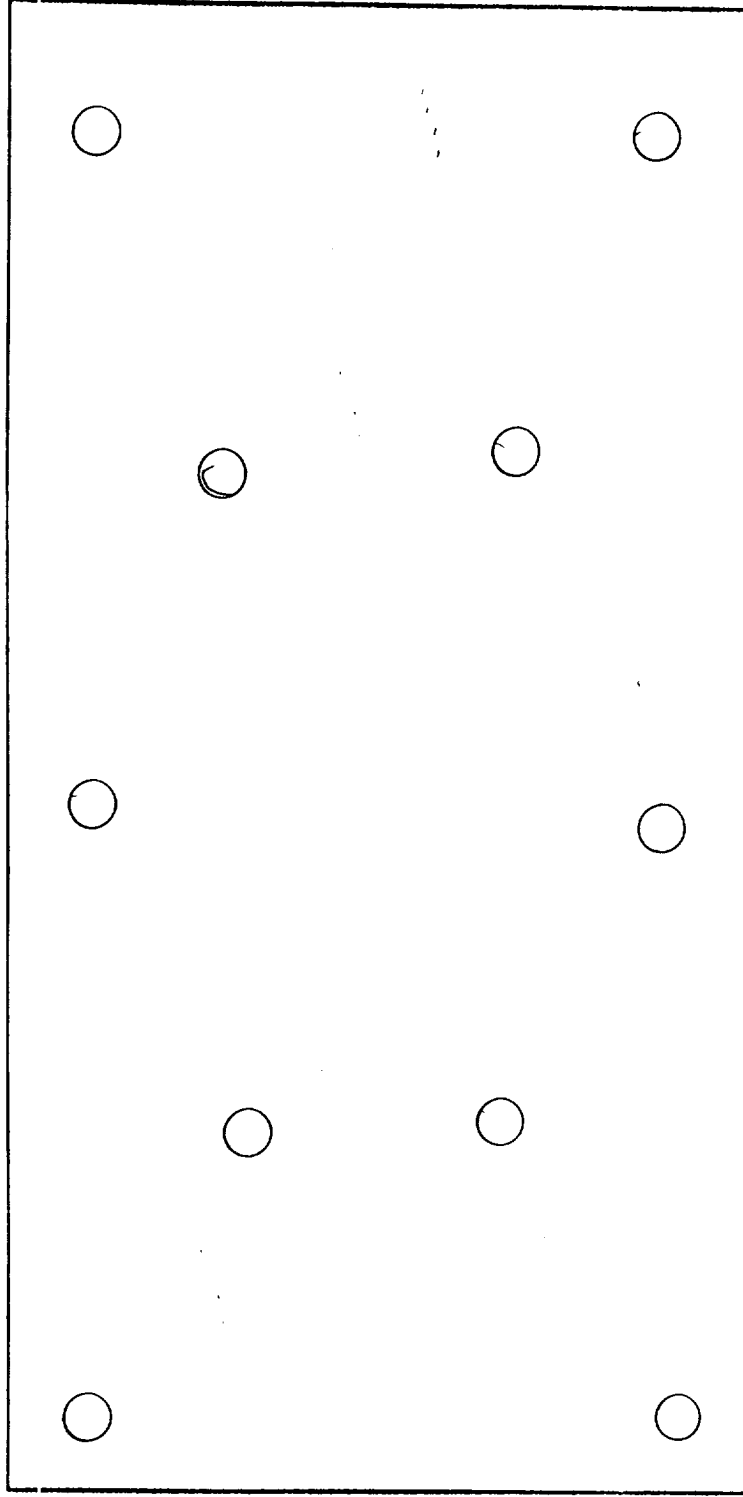
○ = SAMPLE AREA



NOTES: ALL SAMPLES TAKEN 10" TO 12" INTO CELL
10 Point Composite Sample
PID Composite Reading, 3.4 ppm
Samples not within closure limits Resampled on 8-12-97

WELL NAME: Apache #115 cell #2
SAMPLE DATE: 6-13-97
DIMENSIONS: 80' L X 60' W X 18" H

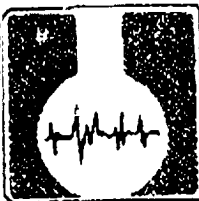
○ = SAMPLE AREA



NOTES: ALL SAMPLES TAKEN 10" TO 12" INTO CELL

10 point composite sample

PID composite Reading: 2.7 ppm.



**ASSAIGAI
ANALYTICAL
LABORATORIES, INC.**

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Report Generated:
August 22, 1997 14:26

**CERTIFICATE OF ANALYSIS
RESULTS BY SAMPLE**

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

WORKORDER # : 9708163
WORK ID : JICARILLA PIT CLOSURES
CLIENT CODE : APA01
DATE RECEIVED : 08/15/97

ATTN: JEFF CROSS

Page: 1

Lab ID: 9708163-01A
Sample ID: A115 DIRT CELL #1

Collected: 08/12/97 14:00:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/kg	0.0050	100	08/19/97	SBTXME185
Toluene	ND	mg/kg	0.0050	100	08/19/97	SBTXME185
Ethylbenzene	ND	mg/kg	0.0050	100	08/19/97	SBTXME185
P-&m-Xylene	ND	mg/kg	0.010	100	08/19/97	SBTXME185
C-Xylene	ND	mg/kg	0.0050	100	08/19/97	SBTXME185

Lab ID: 9708163-01B
Sample ID: A115 DIRT CELL #1

Collected: 08/12/97 14:00:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
Diesel Range OG Soil/M8015 Diesel Range OG in Soil	3300	mg/Kg	25	25	08/19/97	SDRO47

William P. Biava
William P. Biava
President



WORKORDER COMMENTS

DATE : 08/22/97
WORKORDER:

DEFINITIONS/DATA QUALIFIERS

The following are definitions, abbreviations, and data qualifiers which may have been utilized in your report:

- ND = Analyte "not detected" in analysis at the sample specific detection limit.
- D_F = Sample "dilution factor"
- NT = Analyte "not tested" per client request.
- B = Analyte was also detected in laboratory method QC blank.
- E = Analyte concentration (result) is an estimated value or exceeds analysis calibration range.
- LIMIT = The minimum amount of the analyte that AAL can detect utilizing the specified analysis.

Please Note: Multiply the "Limit" value (AAL's Detection Limit) by Dilution Factor (D_F) to obtain the sample specific Detection Limit.

REPORT COMMENTS

ASSAULT ANALYTICAL LABORATORIES

LABORATORY

Phone: 8163 Date: 8/18/97

304 N. Behrend

Project Manager / Contact: Jeff Cross

Telephone No. (505) 774-6643
Fax No. (505) 774-6624
State / Zip: Farmington, NM 87401
Name / Number: JICARILLA PIT CLOSURES
Samples: (Signature) John Mulnix
Order / Purchase Order / Quote

Project Manager / Contact: Jeff Cross
Telephone No. (505) 774-6643
Fax No. (505) 774-6624
State / Zip: Farmington, NM 87401
Name / Number: JICARILLA PIT CLOSURES
Samples: (Signature) John Mulnix
Order / Purchase Order / Quote

No. of Containers	Analyte Required	Remarks
1	BTEX	
1	ORO (mod. 8015)	

Item	Field Sample Number / Location	Date	Time	Sample Type	Type / Size of Container	Temp.	Chemical	Preservation
1A	AUS Ditch #1	8-12-97	12:00	Sed	402 Glass	4°C	ICE	1
1B	"	"	"	"	"	"	"	"

Received by:	Signature	Printed	Company	Reason
John Mulnix	(Signature)	John Mulnix	AALE	

Received by:	Signature	Printed	Company	Reason
John Mulnix	(Signature)	John Mulnix	AALE	

Date	Time	Signature	Printed	Company	Reason
8-18-97	8 AM	(Signature)	AALE		

After analysis, samples are to be:

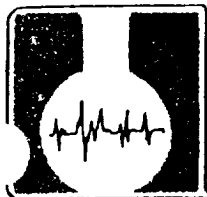
☐ Disposed of (additional fee)

☐ Stored (30 days max)

☐ Stored over 30 days (additional fee)

☐ Returned to customer

LABORATORY



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Report Generated:
June 19, 1997 15:09

23

**CERTIFICATE OF ANALYSIS
RESULTS BY SAMPLE**

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

WORKORDER # : 9706147
WORK ID : JICARILLA PIT CLOSURES
CLIENT CODE : APA01
DATE RECEIVED : 06/13/97

ATTN: JEFF CRCSS

Page: 1

Lab ID: 9706147-01A
Sample ID: AP 115 CELL #2

Collected: 06/13/97 10:30:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/Kg	0.0010	500	06/17/97	SBTXME170
Toluene	ND	mg/Kg	0.0010	500	06/17/97	SBTXME170
Ethylbenzene	ND	mg/Kg	0.0010	500	06/17/97	SBTXME170
P-&m-Xylene	ND	mg/Kg	0.0020	500	06/17/97	SBTXME170
O-Xylene	ND	mg/Kg	0.0010	500	06/17/97	SBTXME170

Lab ID: 9706147-01B
Sample ID: AP 115 CELL #2

Collected: 06/13/97 10:30:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
Diesel Range OG Soil/M8C15						
Diesel Range OG in Soil	ND	mg/Kg	50	25	06/17/97	SDRO33

Wm. P. Biava

William P. Biava
President



JUN 23 1997

WORKORDER COMMENTS

DATE : 06/19/97
WORKORDER:

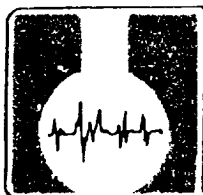
DEFINITIONS/DATA QUALIFIERS

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- D_F = Sample "dilution factor"
- NT = Analyte "not tested" per client request.
- B = Analyte was also detected in laboratory method QC blank.
- E = Analyte concentration (result) is an estimated value or exceeds analysis calibration range.
- LIMIT = The minimum amount of the analyte that AAL can detect utilizing the specified analysis.

Please Note: Multiply the "Limit" value (AAL's Detection Limit) by Dilution Factor (D_F) to obtain the sample specific Detection Limit.

REPORT COMMENTS



**ASSAIGAI
ANALYTICAL
LABORATORIES, INC.**

AUG 4 1997

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

APACHE CORPORATION
304 N. BEHREND
FARMINGTON, NM 87401

Attn: JEFF CROSS

Order #: 97-07-036
Date: 07/11/97 14:45
Work ID: JICARILLA PIT CLOSURES
Date Received: 07/04/97
Date Completed: 07/11/97

Purchase Order: APACHE #115 CELL #1
Invoice Number:

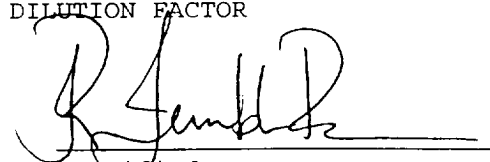
Client Code: APA01

SAMPLE IDENTIFICATION

<u>Sample Number</u>	<u>Sample Description</u>
01	APACHE #115 CELL #1

<u>Sample Number</u>	<u>Sample Description</u>
--------------------------	-------------------------------

ND = None Detected D_F = Dilution Factor NT = Not Tested
B = Analyte was present in the blank
E = Estimated Value or Result exceeds calibration range
MULTIPLY THE LIMIT(= AAL'S DETECTION LIMIT) BY DILUTION FACTOR

for 
Certified By
WILLIAM P. BIAVA



Received: 07/04/97

Results by Sample

SAMPLE ID APACHE #115 CELL #1 FRACTION 01A TEST CODE SBTEX NAME BTEX/SW846 8020A
Date & Time Collected 06/30/97 11:30:00 Category SOIL

PARAMETER	RESULT	LIMIT	D_F	DATE_ANAL
Benzene	<u>ND</u>	<u>0.0050</u>	<u>100</u>	<u>07/07/97</u>
Toluene	<u>ND</u>	<u>0.0050</u>	<u>100</u>	<u>07/07/97</u>
Ethylbenzene	<u>ND</u>	<u>0.0050</u>	<u>100</u>	<u>07/07/97</u>
P-&m-Xylene	<u>ND</u>	<u>0.010</u>	<u>100</u>	<u>07/07/97</u>
O-Xylene	<u>ND</u>	<u>0.0050</u>	<u>100</u>	<u>07/07/97</u>

Notes and Definitions for this Report:

EXTRACTED _____
ANALYST JM
FILE ID _____
UNITS mg/kg
BATCH_ID SBTXME175
PRCNT_MOIST _____

Received: 07/04/97

Results by Sample

SAMPLE ID APACHE #115 CELL #1 FRACTION 01B TEST CODE SDRO NAME Diesel Range OG Soil/M8015
Date & Time Collected 06/30/97 11:30:00 Category SOIL

PARAMETER	RESULT	LIMIT	D_F	DATE_ANAL
Diesel Range OG in Soil	<u>5700</u>	<u>50</u>	<u>25</u>	<u>07/09/97</u>

Notes and Definitions for this Report:

EXTRACTED _____
ANALYST JM
FILE ID _____
UNITS mg/Kg
BATCH_ID SDRO040
PRCNT_MOIST _____

Chain of Custody Record

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

Lab job no.:

7036

Date _____

7-4-97

Page 1 of 1

Client Apache Corporation Project Manager / Contact Jeff Cross

Address 304 N. Behrend Telephone No. (505) 774-6643

CITY/STATE/ZIP Farmington, NM 87401

Project Name / Number JICARILLA PIT CLOSURES Samplers: (Signature) [Signature]

Contract / Purchase Order / Quote _____

MELQUIADES ALANIS

6411 LOCAL UNO

CIUDAD JUAREZ, CHIHUAHUA MEXICO 32320

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

[illegible]

LABORATORY