

State of New Mexico
Energy, Minerals and Natural Resources Department
DEPUTY OIL & GAS INSPECTOR

APR 10 1998

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: Apache Corporation Telephone: 505-325-0318
Address: 2855 Southside River Road, Suite A, Farmington, NM 87401
Facility or Well Name: Apache # 127
Location: Unit or Qtr/Qtr Sec N Sec 11 T 24 N R 4W County Rio Arriba
Pit Type: Separator: _____ Dehydrator: _____ Other: BLOW PIT
Land Type: Jicarilla Tribal

BEGINNING DIMENSIONS
Pit Location: EUD Pit Dimensions: Length 30' Width 30' Depth 4.5'
(Attach diagram)
Reference: Wellhead X Other _____
Footage from reference: 175'
Direction from reference: 295 Degrees _____ East _____ North X
_____ West _____ South _____

Depth To Groundwater: Less than 50 feet (20 points) _____
(vertical distance from 50 feet to 99 feet (10 points) _____
contaminants to seasonal Greater than 100 feet (0 points) 0
high water elevation of
groundwater)

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)

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

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

Date Remediation Started:		<u>8/30/95</u>	Date Completed:		<u>7/8/97</u>
Remediation Method:		Excavatio	<u>XXX</u>	Approx. cubic yards	<u>403</u>
(Check all appropriate sections)		Landfarmed	<u>XX</u>	Insitu Bioremediation	
		Other			
Remediation Location:		Onsite	<u>XX</u>	Offsite	
(i.e. landfarmed onsite, name and location of offsite facility)					
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>8/30/95</u>	Sample Time	<u>2:45 P.M.</u>	
	Sample results				
	Benzene	(ppm)	<u>ND</u>		
	Total BTEX	(ppm)	<u>0.49</u>		
	Field Headspace	(ppm)	<u>103.46</u>		
	TPH		<u>830</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	<u>Jeff Cross</u>	AND TITLE	<u>Project Manager</u>		

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

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 # 127</u>			
Location: Unit or Qtr/Qtr Sec		<u>N</u>	<u>SEC 11</u>
		<u>T 24N</u>	<u>R 4W</u>
		County	<u>RIO ARRIBA</u>
Pit Type: Separator: <u> </u>		Dehydrator <u> </u>	Other <u>BLOW PIT</u>
Land Type: <u>JIC. TRIBAL</u>			
Pit Location: Pit Dimensions: Length <u>33'</u> Width <u>33'</u> Depth <u>10'</u>			
(Attach diagram)			
Reference: Wellhead <u>XXX</u>		Other <u> </u>	
Footage from reference: <u>175'</u>			
Direction from reference: <u>295</u> Degrees		<u> </u> East	North <u>X</u>
		<u>XX</u> West	of South <u> </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:		<u>8/30/95</u>		Date Completed:		<u>7/8/97</u>	
Remediation Method: (Check all appropriate sections)		Excavation <u>XXX</u>		Approx. cubic yards		<u>403</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>8/30/95</u>		Sample Time		<u>2:45PM</u>	
Sample results							
Soil:	Benzene	(ppm)	<u>ND</u>	Water:	Benzene	(ppb)	<u>NA</u>
	Total BTEX	(ppm)	<u>0.49</u>		Toluene	(ppb)	<u>NA</u>
	Field Headspace	(ppm)	<u>103.46</u>		Ethylbenzene	(ppb)	<u>NA</u>
	TPH	(ppm)	<u>830</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>7/25/97</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>Kent Mammal</u>		DATE:		<u>9-24-97</u>	

GENERAL DRAINAGE

NORTH

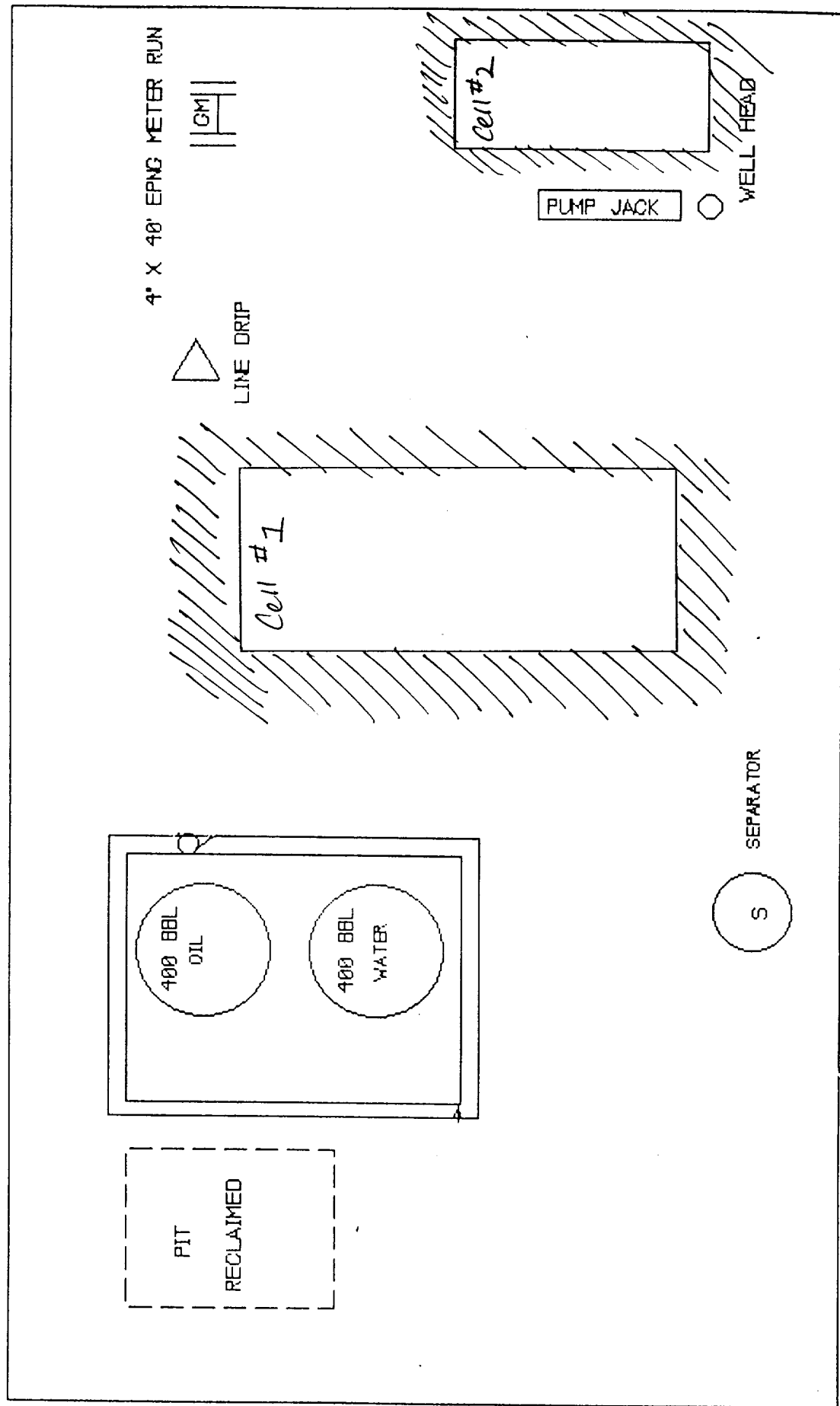
/// = SPREAD AREA

APACHE

APACHE NUMBER 127 Lease # JAT 129
SE/4 SW/4 (N)

SECTION 11 TOWNSHIP 24N RANGE 4W
RIO ARriba COUNTY, NM

Revised 6/1/97 MC



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 127
PIT COUNT: 1

		EXCAVATION							
DIMENSIONS		START		FINISH					
	W'	L'	D'		W'	L'	D'	CU.YDS.	
PIT 1	30'	30'	4.5	PIT 1	33'	33'	10'	403.0	
PIT 2				PIT 2					
PIT 3				PIT 3					
DATE: 08/30/95		PIT 1@ 08'	PIT 2@	PIT 3@	DATE: 09/15/95		PIT 1@ 10'	PIT 2@	PIT 3@
P. I. D.	CENTER	188.0			P. I. D.	CENTER	23.1		
	NW CORNER	48.6				NW CORNER	0.0		
	NE CORNER	240.0				NE CORNER	0.0		
	SW CORNER	0.0				SW CORNER	0.0		
	SE CORNER	40.7				SE CORNER	36.2		

NOTES:

08/30/95 Excavate to 10', staining w/lt. odor to 8'.

SOIL SAMPLING

DATE: 08/30/95		PIT 1@ 08'	PIT 2@	PIT 3@	ANALYSIS RESULTS		PER LAB: ASSAIGAI	
P. I. D.	CENTER	188.0			PIT NO.	TPH	BTEX	WITNESS DATE
	NW CORNER	48.6			1	830.0	0.49	IF&S 08/30/95
	NE CORNER	240.0						
	SW CORNER	0.0						
	SE CORNER	40.7						

RE-SAMPLE OR CELL(S) SAMPLE

DATE: 09/15/95		PIT 1@ 10'	PIT 2@	PIT 3@	ANALYSIS RESULTS		PER LAB: ASSAIGAI	
P. I. D.	CENTER	23.1			PIT NO.	TPH	BTEX	WITNESS DATE
	NW CORNER	0.0			1	200.0	1.93	JDT 09/15/95
	NE CORNER	0.0						
	SW CORNER	0.0						
	SE CORNER	36.2						

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							

PID READINGS					Site Number: 127	
Date	Pit No.	Interval (Depth)	Location	Reading (ppm)	Notes:	
08/30/95	1	8'	Center	188	Starting depth: 4'6". Vacuum truck hauled 100 bbls. of water. Excavate to 8', took 5 part composite sample and PID readings.	
08/30/95	1	8'	Bottom, N.W. Corner	48.6		
08/30/95	1	8'	Bottom, N.E. Corner	240		
08/30/95	1	8'	Bottom, S.W. Corner	0.0		
08/30/95	1	8'	Bottom, S.E. Corner	40.7		
09/01/95	1	10'	Center	119	Excavated to 10', took PID readings.	
09/01/95	1	10'	Bottom, N.W. Corner	0.0		
09/01/95	1	10'	Bottom, N.E. Corner	0.0		
09/01/95	1	10'	Bottom, S.W. Corner	0.0		
09/01/95	1	10'	Bottom, S.E. Corner	36.2		
09/15/95	1	10'	Composite	23.1	PID Reading of sample sent to lab.	

SEP 25 1995

Page: 2

Lab ID: 9509064-02B
Sample ID: AP# 116

Collected: 08/29/95 15:20:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
HCs DIESEL/CAL DHS 8015M Diesel	300	mg/Kg	5.0	10	09/14/95	SLFTD042
HCs DSL XT/CAL DHS 8015M	09/11/95	N/A				

Lab ID: 9509064-03A
Sample ID: AP# 127

Collected: 08/30/95 14:45:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/Kg	0.0010	5.0	09/12/95	SMSVOA316
Toluene	0.023	mg/Kg	0.0010	5.0	09/12/95	SMSVOA316
Ethylbenzene	0.027	mg/Kg	0.0010	5.0	09/12/95	SMSVOA316
P-&m-Xylene	0.30	mg/Kg	0.0020	5.0	09/12/95	SMSVOA316
O-Xylene	0.14	mg/Kg	0.0010	5.0	09/12/95	SMSVOA316

Lab ID: 9509064-03B
Sample ID: AP# 127

Collected: 08/30/95 14:45:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
HCs DIESEL/CAL DHS 8015M Diesel	830	mg/Kg	5.0	100	09/15/95	SLFTD042
HCs DSL XT/CAL DHS 8015M	09/11/95	N/A				

Lab ID: 9509064-04A
Sample ID: AP# 29

Collected: 09/01/95 13:30:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/Kg	0.0010	5.0	09/12/95	SMSVOA316
Toluene	ND	mg/Kg	0.0010	5.0	09/12/95	SMSVOA316
Ethylbenzene	ND	mg/Kg	0.0010	5.0	09/12/95	SMSVOA316
P-&m-Xylene	ND	mg/Kg	0.0020	5.0	09/12/95	SMSVOA316
O-Xylene	ND	mg/Kg	0.0010	5.0	09/12/95	SMSVOA316

Lab ID: 9509064-04B
Sample ID: AP# 29

Collected: 09/01/95 13:30:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
HCs DIESEL/CAL DHS 8015M Diesel	ND	mg/Kg	5.0	10	09/14/95	SLFTD042
HCs DSL XT/CAL DHS 8015M	09/11/95	N/A				



Chain of Custody Record

7300 JEFFERSON, N.E.
ALBUQUERQUE, NEW MEXICO 87110
(505) 345-8964

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

Client Apache Corp.
Address 304 W. Behrend
City / State / Zip Farlington, N.M. 87401
Project Name / Number Pit Remediation 7507
Contract / Purchase Order / Quote _____

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

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

MELOQUIADES ALANIS
6411 LOCAL UNO
CIUDAD JUAREZ, CHIHUAHUA MEXICO 32320

AAL FRACTION NUMBER	Field Sample Number / Location	Date	Time	Sample Type	Type / Size of Container	Preservation Temp.	Chemical
6-11	AP# 106	8/29	11:20	Sol	Gloss	500	IE
6-12	AP# 106	8/29	11:20				
6-13	AP# 116	8/29	3:20				
6-14	AP# 116	8/29	3:20				
6-15	AP# 127	8/30	2:45				
6-16	AP# 127	8/30	2:45				
6-17	AP# 29	9/1	1:30				
6-18	AP# 29	9/1	1:30				
6-19	AP# 24	9/1	3:30				
6-20	AP# 24	9/1	3:30				
6-21	AP# 111	9/5	3:00				
6-22	AP# 111	9/5	3:00				

Inquired by: Signature <u>[Signature]</u> Printed <u>Jeremy Anderson</u> Company <u>Indigen Fire & Safety Testing</u> Reason <u>Testing</u>	Received by: Signature <u>[Signature]</u> Printed <u>Enrique Chavez</u> Company <u>AAL</u> Reason <u>Pickup / Testing</u>	Date 9/8/95 Time 3:25 PM
Relinquished by: Signature <u>[Signature]</u> Printed <u>Scott Platt</u> Company <u>AAL</u> Reason _____	Date 08 Aug Time 17:30	Received by: Signature <u>[Signature]</u> Printed <u>Enrique Chavez</u> Company <u>AAL</u> Reason <u>Testing</u>
After analysis, samples are to be: ☐ Disposed of (additional fee) ☐ Stored (30 days max) ☐ Stored over 30 days (additional fee) ☐ Returned to customer		
Comments: _____ _____ _____		
Method of Shipment: _____ Shipment No. _____ Special Instructions: _____		

No. of Containers	Analysis Required	Remarks
BEX		
TRH		

DECEIVED
SEP 25 1995

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 # 127</u>		<u>CELL # 2</u>	
Location:	Unit or Qtr/Qtr Sec <u>N</u>	Sec <u>11</u>	T <u>24N</u> R <u>4W</u> County <u>RIO ARRIBA</u>
Land Type	<u>JIC. TRIBAL</u>		
Date Remediation Started: <u>8/30/95</u>		Date Completed: <u>7/8/97</u>	
Remediation Method:	Landfarmed <u>XXX</u>	Approx. cubic yards	<u>107</u>
	Composted <u> </u>		
	Other <u> </u>		
Depth to Groundwater: (pts) <u>0</u>		Final Closure Sampling Sampling Date: <u>7/8/97</u> Time: <u>1:45PM</u> Sample Results: Field Headspace (ppm) <u>15</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 <u> </u> (REASON) <u> </u>			
SIGNED: <u>Lee C Marshall</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 # 127</u> CELL # <u>1</u>	
Location: Unit or Qtr/Qtr Sec <u>N</u> Sec <u>11</u> T <u>24N</u> R <u>4W</u> County <u>RIO ARRIBA</u>	
Land Type <u>JIC. TRIBAL</u>	
Date Remediation Started: <u>8/30/95</u> Date Completed: <u>7/8/97</u>	
Remediation Method: Landfarmed <u>XXX</u> Approx. cubic yards <u>296</u>	
Composted _____	
Other _____	
Depth to Groundwater: (pts) <u>0</u>	Final Closure Sampling Sampling Date: <u>7/8/97</u> Time: <u>1:30PM</u> Sample Results: Field Headspace (ppm) <u>0</u> TPH (ppm) <u>1300</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 # 127

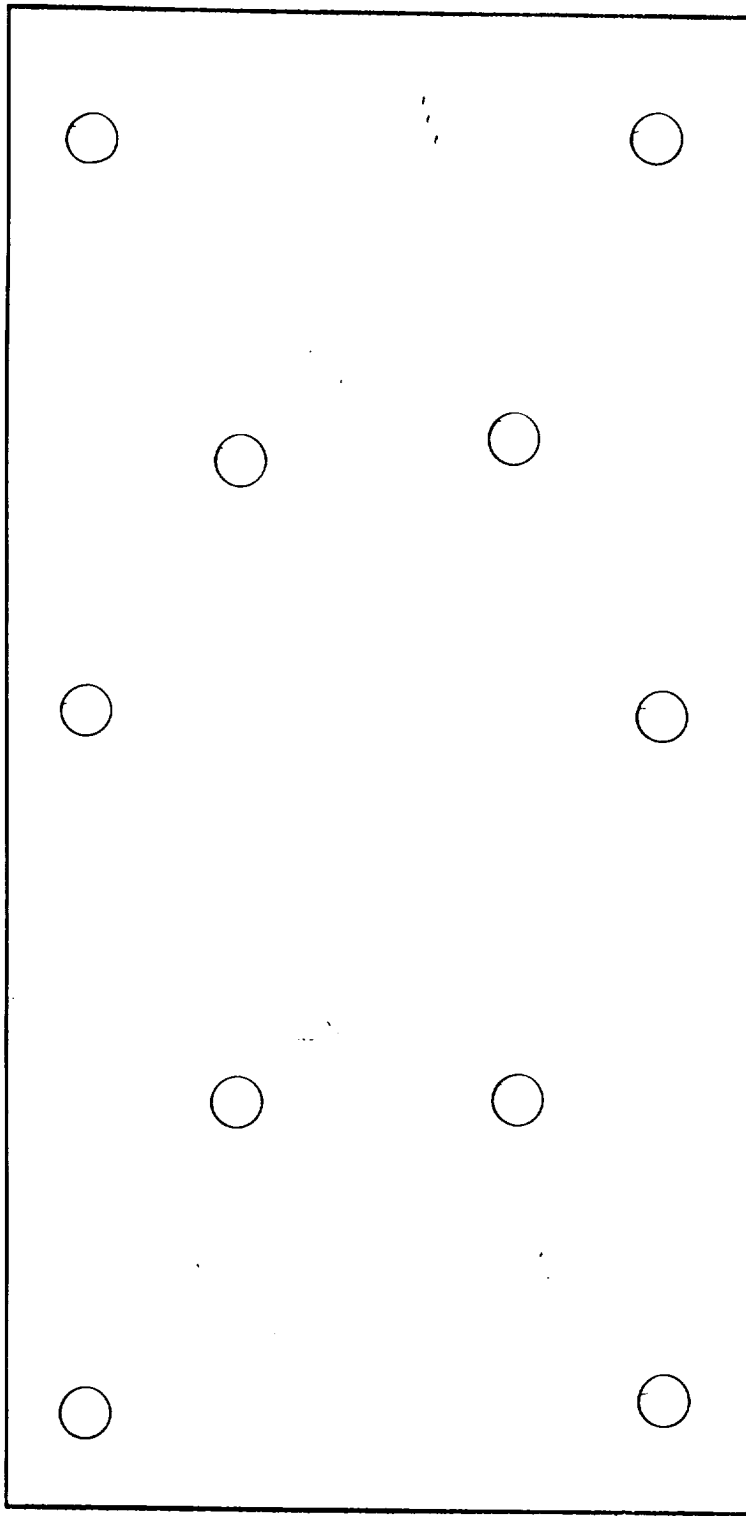
* AMOUNT OF SOIL UNDERGOING REMEDIATION 403 Yds.

CELL No. <u>#1</u>	SampDATE <u>7/8/97</u>	TPH <u>1300</u>	BTEX <u>ND</u>
DIMENSIONS(LxWxH) <u>100' L X 80' W X 12" H</u>			
CELL LOCATION (dir. from well head) <u>NORTHWEST</u>			
* DATE BEGAN: <u>8/30/95</u>			
DATE TERMINATED (TPH <5,000 ppm/BTEX< 50 ppm/Benzene < 10 ppm) <u>7/8/97</u>			
CELL No. <u>#2</u>	SampDATE <u>7/8/97</u>	TPH <u>ND</u>	BTEX <u>ND</u>
DIMENSIONS(LxWxH) <u>100' L X 20' W X 18" H</u>			
CELL LOCATION (dir. from well head) <u>NORTHEAST</u>			
* DATE BEGAN: <u>8/30/95</u>			
DATE TERMINATED (TPH <5,000 ppm/BTEX< 50 ppm/Benzene < 10 ppm) <u>7/8/97</u>			
CELL No. _____	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)			
5/27/97 CELLS # 1 & # 2 TREAT WITH 46-0-0 FERTILIZER , WATER AND			
TILL CELLS.			
6/26/97 WATER AND TILL CELLS.			
6/30/97 WATER AND TILL CELLS.			

From excavation reports.

WELL NAME: Apache #127 Cell #1
SAMPLE DATE: 7-8-97
DIMENSIONS: 100' L x 80' W x 12" H

○ = SAMPLE AREA



NOTES: ALL SAMPLES TAKEN 10" TO 12" INTO CELL.
10 point composite Sample.
Composite PIO Reading: 0.0ppm.

WELL NAME:

Apache #127 Cell #2

SAMPLE DATE:

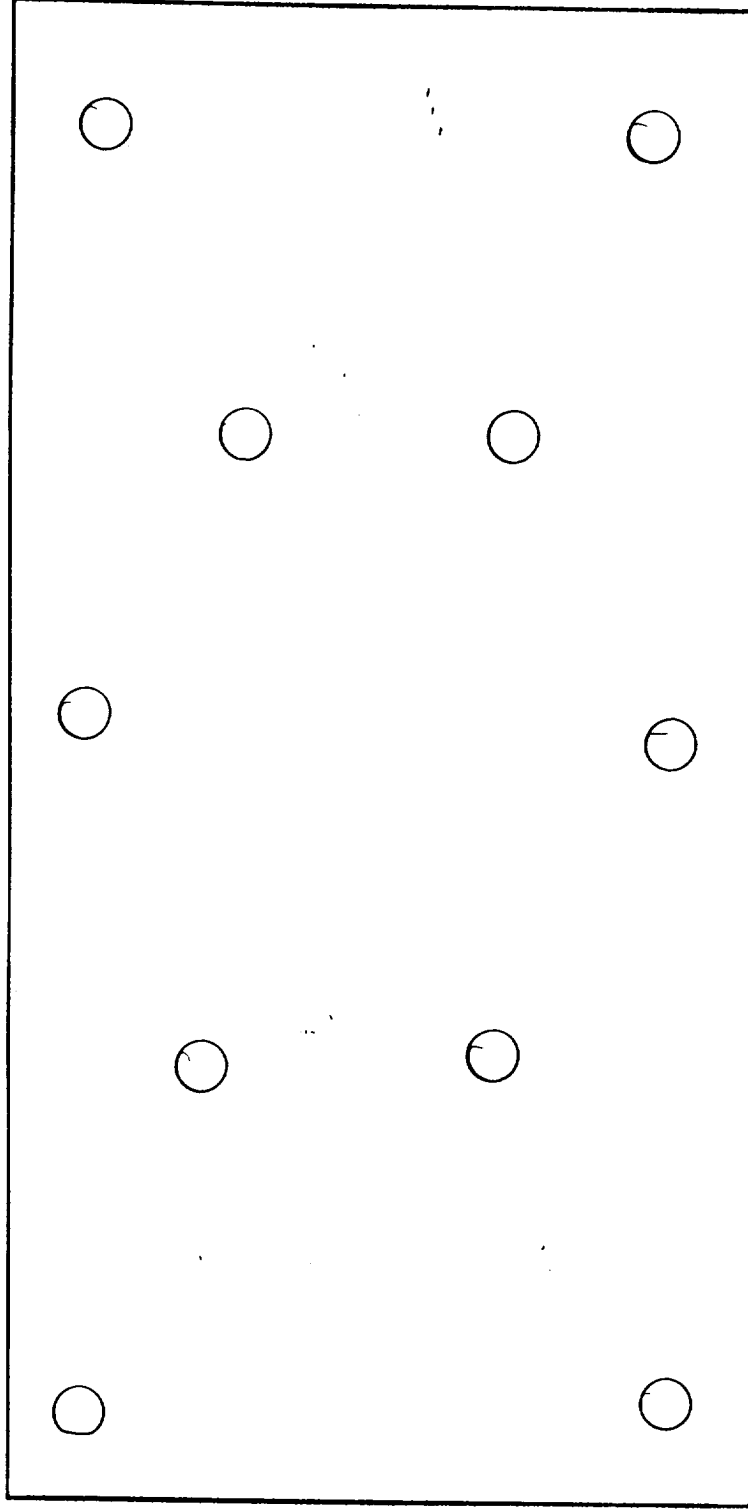
7-8-97

DIMENSIONS:

100' L x 20' W x 18" H



= SAMPLE AREA

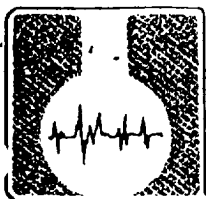


NOTES:

ALL SAMPLES TAKEN 10" TO 12" INTO CELL.

10 point composite sample

Composite PID Reading 15.0 ppm.



**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

Report Generated:
July 18, 1997 12:43

**CERTIFICATE OF ANALYSIS
RESULTS BY SAMPLE**

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

WORKORDER # : 9707101
WORK ID : JICARILLA PIT CLOSURES
CLIENT CODE : APA01
DATE RECEIVED : 07/11/97

ATTN: JEFF CROSS

Page: 1

Lab ID: 9707101-01A
Sample ID: AP #127 CELL #1

Collected: 07/08/97 13:30:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/kg	0.0050	100	07/15/97	SBTXME177
Toluene	ND	mg/kg	0.0050	100	07/15/97	SBTXME177
Ethylbenzene	ND	mg/kg	0.0050	100	07/15/97	SBTXME177
P-&m-Xylene	ND	mg/kg	0.010	100	07/15/97	SBTXME177
O-Xylene	ND	mg/kg	0.0050	100	07/15/97	SBTXME177

Lab ID: 9707101-01B
Sample ID: AP #127 CELL #1

Collected: 07/08/97 13:30:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
Diesel Range OG Soil/M8015						
Diesel Range OG in Soil	1300	mg/Kg	25	25	07/15/97	SDRO41

Lab ID: 9707101-02A
Sample ID: AP #127 CELL #2

Collected: 07/08/97 13:45:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/kg	0.0050	100	07/15/97	SBTXME177
Toluene	ND	mg/kg	0.0050	100	07/15/97	SBTXME177
Ethylbenzene	ND	mg/kg	0.0050	100	07/15/97	SBTXME177
P-&m-Xylene	ND	mg/kg	0.010	100	07/15/97	SBTXME177
O-Xylene	ND	mg/kg	0.0050	100	07/15/97	SBTXME177



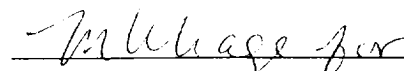
Lab ID: 9707101-02B

Sample ID: AP #127 CELL #2

Collected: 07/08/97 13:45:00

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	07/15/97	SDRO41



William P. Biava
President

WORKORDER COMMENTS

DATE : 07/18/97
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

Chain of Custody Record

ALBIONEROLLE NEW MEXICO 87100

(505) 345-8964

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

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

(915) 570-1116

MELQUIADES ALANIS

8411 LOCAL UNO
CIUDAD JUAREZ, CHIHUAHUA MEXICO 32320

Client Apache Corporation

Project Manager / Contact ~~Jeff Cross~~

Address 304 N. Behrend

Telephone No. (505) 774-6643

City / State / Zip Farmington, NM 87401

Fax No. (505) 774-6624

Project Name / Number JICARILLA PIT CLOSURES

Samplers: (Signature) *John W. [Signature]*

Contract / Purchase Order / Quote

[illegible]