

1000 Rio Brazos Rd
Aztec, NM 87410

Energy, Minerals and Natural Resources Department

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

DEPUTY OIL & GAS INSPECTOR

OIL CONSERVATION DIVISION

2040 S. PACHECO

Santa Fe, New Mexico 87505

APR 10 1998

PIT REMEDIATION AND CLOSURE REPORT

Operator:	<u>Apache Corporation</u>				Telephone:	<u>505-325-0318</u>					
Address:	<u>2855 Southside River Road, Suite A, Farmington, NM 87401</u>										
Facility or Well Name:	<u>Apache # 31</u>										
Location:	Unit or Qtr/Qtr	Sec	<u>I</u>	<u>23</u>	T	<u>24</u>	N	R	<u>4W</u>	County	<u>Rio Arriba</u>
Pit Type:	Separator:	<u></u>		Dehydrator	<u></u>		Other	<u>Blow Pit</u>			
Land Type:	<u>Jicarilla Tribal</u>										

Pit Location: <u>END</u>		Pit Dimensions:		L <u>24'</u>	W <u>24'</u>	D <u>5.5'</u>
(Attach diagram)		Length	<u>24'</u>	Width	<u>24'</u>	Depth <u>12'</u>
Reference:	Wellhead	<u>X</u>	Other			
Footage from reference:	<u>90'</u>					
Direction from reference:	<u>80</u>	Degrees	<u>XX</u>	East	North	
				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)
high water elevation of		
groundwater)		

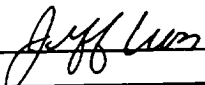
Wellhead Protection Area:
(Less than 200 feet from a private domestic water source, or; less than 1000 feet from all other water sources)

Yes (20 points)
No (0 points)

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)
irrigation canals and ditches)		

RANKING SCORE (TOTAL POINTS)

RECEIVED
DEC 10 1937
OIL CON. DIV.
DIST. 2

Date Remediation Started:		<u>11/2/95</u>	Date Completed:		<u>6/19/97</u>
Remediation Method: (Check all appropriate sections)		Excavatio	<u>XXX</u>	Approx. cubic yards	<u>96</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 12', took PID readings.</u>					
<u>Spread soil on location for remediation. Took soil samples.</u>					
Groundwater Encountered:		No	<u>X</u>	Yes	Depth <u> </u>
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>12/1/95</u>	Sample Time	<u>10:30 A.M.</u>	
	Sample results				
	Benzene	(ppm)	<u>ND</u>		
	Total BTEX	(ppm)	<u>ND</u>		
	Field Headspace	(ppm)	<u>49.36</u>		
	TPH		<u>85</u>		
Groundwater Sample:		Yes	<u> </u>	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></u>	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 # 31</u>																												
Location:	Unit or Qtr/Qtr	Sec	T 24N R 4W County <u>RIO ARRIBA</u>																									
Pit Type:	Separator: <u> </u>	Dehydrator <u> </u>	Other <u>BLOW PIT</u>																									
Land Type: <u>JIC. TRIBAL</u>																												
<table style="width: 100%; border: none;"> <tr> <td style="width: 15%;">Pit Location:</td> <td style="width: 20%;">Pit Dimensions:</td> <td style="width: 15%;">Length <u>24'</u></td> <td style="width: 15%;">Width <u>24'</u></td> <td style="width: 15%;">Depth <u>12'</u></td> </tr> <tr> <td>(Attach diagram)</td> <td>Reference:</td> <td>Wellhead <u>XXX</u></td> <td>Other <u> </u></td> <td></td> </tr> <tr> <td></td> <td>Footage from reference:</td> <td colspan="3"><u>90'</u></td> </tr> <tr> <td></td> <td>Direction from reference:</td> <td><u>80</u> Degrees</td> <td><u>XX</u> East</td> <td>North <u>X</u></td> </tr> <tr> <td></td> <td></td> <td></td> <td><u> </u> West</td> <td>of South <u> </u></td> </tr> </table>				Pit Location:	Pit Dimensions:	Length <u>24'</u>	Width <u>24'</u>	Depth <u>12'</u>	(Attach diagram)	Reference:	Wellhead <u>XXX</u>	Other <u> </u>			Footage from reference:	<u>90'</u>				Direction from reference:	<u>80</u> Degrees	<u>XX</u> East	North <u>X</u>				<u> </u> West	of South <u> </u>
Pit Location:	Pit Dimensions:	Length <u>24'</u>	Width <u>24'</u>	Depth <u>12'</u>																								
(Attach diagram)	Reference:	Wellhead <u>XXX</u>	Other <u> </u>																									
	Footage from reference:	<u>90'</u>																										
	Direction from reference:	<u>80</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: 11/2/95 Date Completed: 6/19/97

Remediation Method: Excavation XXX Approx. cubic yards 96

(Check all appropriate sections)

Landfarmed XX Insitu Bioremediation

Other

Remediation Location:

Onsite XX Offsite

(i.e. landfarmed onsite, name and location of offsite facility)

General Description of Remedial Action: Excavate pit to 12', took PID readings. spread soil on

location for remediation. Took soil samples.

Groundwater Encountered: No XXX Yes Depth

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 8" to 10" into pit side walls, 10" into pit bottom.

Sample Date 12/1/95 Sample Time 10:30 Am.

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>49.36</u>		Ethylbenzene	(ppb)	<u>NA</u>
	TPH	(ppm)	<u>85</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 8-22-97 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.

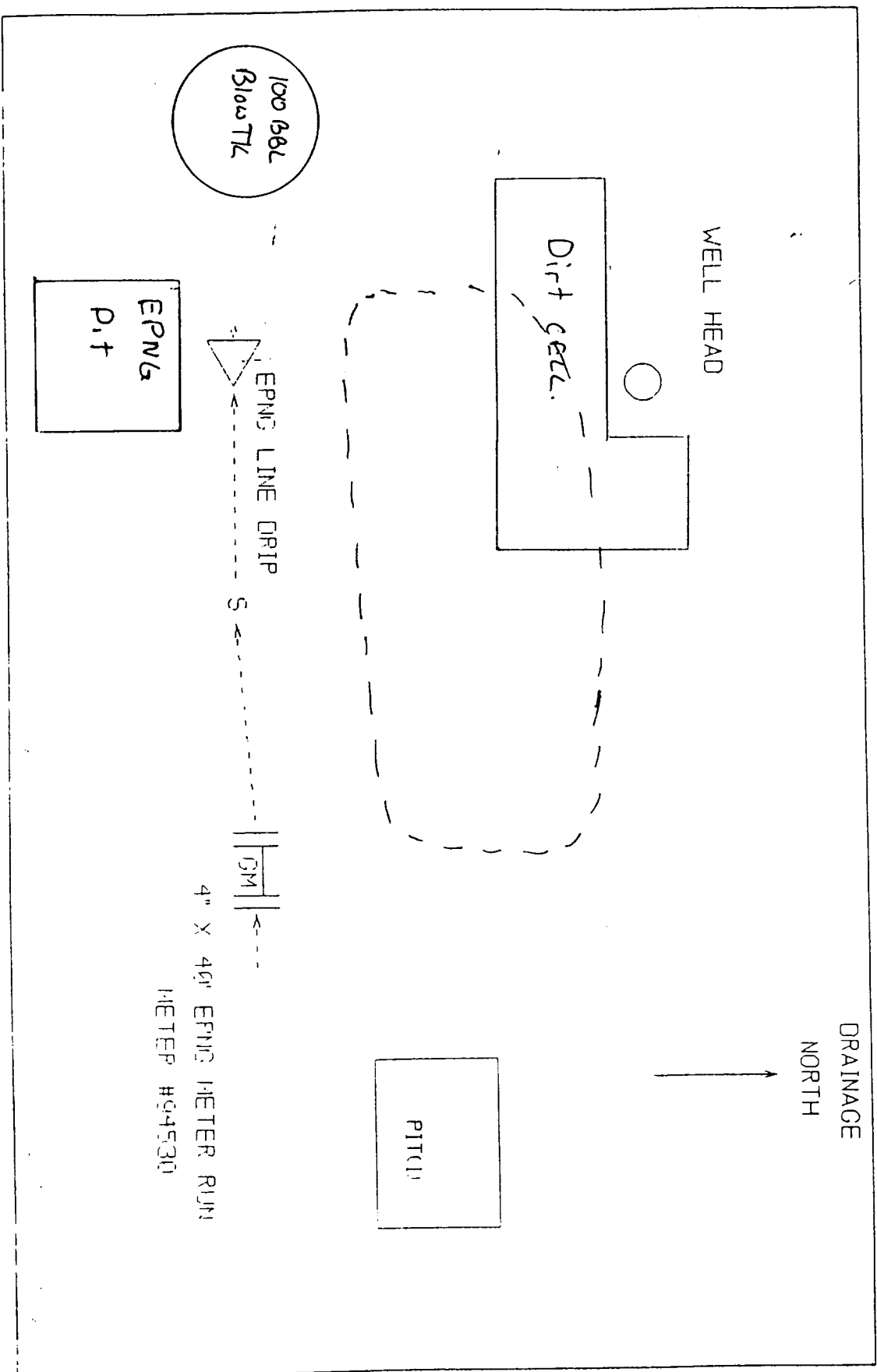
APPROVED: YES X NO (REASON)

SIGNED: Kew C Mammell DATE: 9-2-97



Spread = Area

APACHE
APACHE NUMBER 31
SECTION 23, TOWNSHIP 24N, RANGE 4W
RIO ARRIBA COUNTY, NM



APACHE CORPORATION FARMINGTON DISTRICT
PIT EXCAVATION AND CLOSURE REPORT

JICARILLA APACHE TRIBAL EPO
REVIEW AND APPROVAL

LOCATION: APACHE 31

EPO REPRESENTATIVE Gabe Julian
DATE OF REVIEW: 12-27-95

PIT COUNT: 1

		EXCAVATION						
DIMENSIONS		START		FINISH				CU.YDS.
	W	L	D		W	L	D	
PIT 1	24'	24'	5.5'	PIT 1	24'	24'	10'12'(11/30)	96.0
PIT 2				PIT 2				
PIT 3				PIT 3				
DATE:11/02/95		PIT1@10'	PIT2@_'	PIT3@_'	DATE:11/30/95	PIT1@12'	PIT2@_'	PIT3@_'
P. I. D.	CENTER	621.0			P. I. D.	CENTER	71.3	
	NW CORNER	1050.0				NW CORNER	18.3	
	NE CORNER	1018.0				NE CORNER	49.9	
	SW CORNER	53.1				SW CORNER	78.1	
	SE CORNER	240.0				SE CORNER	27.4	

NOTES:

11/02/95 - Sandstone w/lt. staining to 9'

11/30/95- Excavate additional 2', hit sandstone table.

SOIL SAMPLING

SOIL SAMPLING									
DATE:11/02/95		PIT1@10'	PIT2@_ _ _ '	PIT3@_ _ _ '	ANALYSIS RESULTS			PER LAB:	ASSAIGAI
					PIT	TPH	BETEX	WITNESS	DATE
P.	CENTER	621.0			PIT				
	NW CORNER	1050.0			NO.				
I.	NE CORNER	1018.0			1	55.0	ND	IF&S	11/02/95
D.	SW CORNER	53.1			2				
	SE CORNER	240.0			3				

RE-SAMPLE OR CELL(S) SAMPLE

RE-SAMPLE OR CELL(S) SAMPLE									
DATE:12/01/95		PIT1@12'	PIT2@	PIT3@	ANALYSIS RESULTS			PER LAB:	ASSAIGAI
					PIT	TPH	BETEX	WITNESS	DATE
P.	CENTER	73.1			PIT				
	NW CORNER	18.3			NO.				
I.	NE CORNER	49.9			1	85.0	ND	JDT	12/01/95
D.	SW CORNER	78.1			2				
	SE CORNER	27.4			3				

RE-SAMPLE OR CELL(S) SAMPLE

RE:- SAMPLE OR CELL(S) SAMPLE									
DATE:		PIT 1	PIT 2	PIT 3	ANALYSIS RESULTS			PER LAB:	
	CENTER				PIT	TPH	BETEX	WITNESS	DATE
P.	NW CORNER				NO.				
I.	NE CORNER				1				
D.	SW CORNER				2				
	SE CORNER				3				

Lab ID: 9512029-23A
Sample ID: AP #101

Collected: 11/30/95 15:20:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A	ND	mg/Kg	0.0010	500	12/06/95	SBTXME093
Benzene	ND	mg/Kg	0.0010	500	12/06/95	SBTXME093
Toluene	ND	mg/Kg	0.0010	500	12/06/95	SBTXME093
Ethylbenzene	ND	mg/Kg	0.0010	500	12/06/95	SBTXME093
P-&m-Xylene	ND	mg/Kg	0.0010	500	12/06/95	SBTXME093
O-Xylene	ND	mg/Kg	0.0010	500	12/06/95	SBTXME093

Lab ID: 9512029-23B
Sample ID: AP #101

Collected: 11/30/95 15:20:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
HCs DIESEL/CAL DHS 8015M	270	mg/Kg	5.0	50	12/08/95	SLFTD054
Diesel	12/06/95	N/A				
HCs DSL XT/CAL DHS 8015M						

Lab ID: 9512029-24A
Sample ID: AP #28-C

Collected: 12/01/95 11:00:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A	ND	mg/Kg	0.0010	500	12/06/95	SBTXME093
Benzene	ND	mg/Kg	0.0010	500	12/06/95	SBTXME093
Toluene	ND	mg/Kg	0.0010	500	12/06/95	SBTXME093
Ethylbenzene	ND	mg/Kg	0.0010	500	12/06/95	SBTXME093
P-&m-Xylene	ND	mg/Kg	0.0010	500	12/06/95	SBTXME093
O-Xylene	ND	mg/Kg	0.0010	500	12/06/95	SBTXME093

Lab ID: 9512029-24B
Sample ID: AP #28-C

Collected: 12/01/95 11:00:00
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	12/07/95	SLFTD054
Diesel	12/06/95	N/A				
HCs DSL XT/CAL DHS 8015M						

Lab ID: 9512029-25A
Sample ID: AP #31-H

Collected: 12/01/95 10:32:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A	ND	mg/Kg	0.0010	500	12/06/95	SBTXME093
Benzene	ND	mg/Kg	0.0010	500	12/06/95	SBTXME093
Toluene						

Lab ID: 9512029-25A
Sample ID: AP #31-H

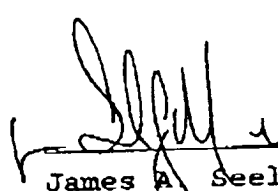
Collected: 12/01/95 10:32:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A	ND	mg/Kg	0.0010	500	12/06/95	SBTXME093
Ethylbenzene	ND	mg/Kg	0.0010	500	12/06/95	SBTXME093
P-m-Xylene	ND	mg/Kg	0.0010	500	12/06/95	SBTXME093
O-Xylene						

Lab ID: 9512029-25B
Sample ID: AP #31-H

Collected: 12/01/95 10:32:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
HCs DIESEL/CAL DHS 8015M	85B	mg/Kg	5.0	5.0	12/07/95	SLFTD054
Diesel	12/06/95	N/A				
HCs DSL XT/CAL DHS 8015M						


James A. Seely
Operations Manager

WORKORDER COMMENTS

DATE : 12/14/95
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

Lab ID: 9511144-02B
Sample ID: AP #28-H

Collected: 10/31/95 11:30:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
HCs DIESEL/CAL DHS 8015M	31B*	mg/Kg	5.0	5.0	11/17/95	SLFTD051
Diesel	11/16/95	N/A				
HCs DSL XT/CAL DHS 8015M						

Lab ID: 9511144-03A
Sample ID: AP 109

Collected: 10/30/95 16:50:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A	ND*	mg/Kg	0.0010	50	11/17/95	SBTXME088
Benzene	ND*	mg/Kg	0.0010	50	11/17/95	SBTXME088
Toluene	0.078*	mg/Kg	0.0010	50	11/17/95	SBTXME088
Ethylbenzene	ND*	mg/Kg	0.0010	50	11/17/95	SBTXME088
P-&m-Xylene	0.088*	mg/Kg	0.0010	50	11/17/95	SBTXME088
O-Xylene						

Lab ID: 9511144-03B
Sample ID: AP 109

Collected: 10/30/95 16:50:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
HCs DIESEL/CAL DHS 8015M	2300*	mg/Kg	5.0	50	11/18/95	SLFTD051
Diesel	11/16/95	N/A				
HCs DSL XT/CAL DHS 8015M						

Lab ID: 9511144-04A
Sample ID: AP #31-H

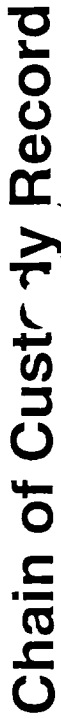
Collected: 11/02/95 08:30:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A	ND*	mg/Kg	0.0010	5.0	11/16/95	SBTXME087
Benzene	ND*	mg/Kg	0.0010	5.0	11/16/95	SBTXME087
Toluene	ND*	mg/Kg	0.0010	5.0	11/16/95	SBTXME087
Ethylbenzene	ND*	mg/Kg	0.0010	5.0	11/16/95	SBTXME087
P-&m-Xylene	ND*	mg/Kg	0.0010	5.0	11/16/95	SBTXME087
O-Xylene	ND*	mg/Kg	0.0010	5.0	11/16/95	SBTXME087

Lab ID: 9511144-04B
Sample ID: AP #31-H

Collected: 11/02/95 08:30:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
HCs DIESEL/CAL DHS 8015M	55B*	mg/Kg	5.0	5.0	11/18/95	SLFTD051
Diesel	11/16/95	N/A				
HCs DSL XT/CAL DHS 8015M						



7300 JEFFERSON, N.E.
ALBUQUERQUE, NEW MEXICO 87-
(505) 345-8964

ANALYTICAL
LABORATORIES

Lab job no.: 1124 Date 11/15/75

Page 1 of 3

Client Apple Inc. Cupertino, CA Project Manager / Contact John Taylor

Address 304 N. Ashland Telephone No. (502) 725 0318

City/State/Zip Anniston, Ala. 36410 Fax No. (205)-325-0325

Project Name / Number at Redoubt 7507 Samplers: (Signature) _____

Contract / Purchase Order / Quote _____

AAL FRACTION NUMBER	Field Sample Number/Location	Date	Time	Sample Type	Type / Size of Container	Preservation	
						Temp.	Chemical
01A	AP # 28-C	10/31	12:25	Soil	102 MASS		ICE
B	AP # 28-C	10/31	12:25				
02A	AP # 28-H	10/31	11:30				
B	AP # 28-H	10/31	11:30				
03A	AP 109	10/30	1:50				
B	AP 109	10/30	1:50				
04A	AP # 31-H	11/2	8:30				
B	AP # 31-H	11/2	8:30				
05A	AP # 129-H	11/2	7:55				
B	AP # 129-H	11/2	7:55				
06A	AP # 119-C	11/6	1:30				
B	AP # 119-C	11/6	1:30				

Inquired by:		Received by:		Relinquished by:	
Signature	Date	Signature	Date	Signature	Date
<i>[Signature]</i>	11/15/95	<i>[Signature]</i>	11/15/95	<i>[Signature]</i>	11/15/95
Printed	Time	Printed	Time	Printed	Time
Scott Dudenheffer	4:00	Elvin S. Chavira		Elvin S. Chavira	
Company		Company		Company	
Indiana Fire Safety		MAI		MAI	
Reason		Reason		Reason	
Testing		Testing		Testing	

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

COURIER

[illegible]

Date 11/16/85	Received by: Laura M. Campbell	
	Signature Laura M. Campbell	Printed Laura M. Campbell
Time 5:05	Company AT&T	Reason

After analysis, samples are to be:

☐ Disposed of (additional fee)

☐ Stored (30 days max)

☐ Stored over 30 days (additional fee)

☐ Returned to customer



7300 JEFFERSON, N.E.
ALBUQUERQUE, NEW MEXICO 87111
(505) 345-8964

7300 JEFFERSON, N.E.
ALBUQUERQUE, NEW MEXICO 871
(505) 345-8964

3332 WEDGEWOOD
EL PASO, TEXAS 79925
(915) 533-6000

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

MELQUIADES ALANIS
6411 LOCAL UNO
CIUDAD JUAREZ, CHIHUAHUA MEX

Client _____
Project Manager / Contact _____

Address _____ Telephone No. _____

City / State / Zip _____ Fax No. _____

Project Name / Number _____

Samplers: (Signature) _____

Contract / Purchase Order / Quote _____

[illegible]

Relinquished by:	Date	Received by:	Relinquished by:
Signature <u>[Signature]</u>	<u>10/11/15</u>	Signature <u>[Signature]</u>	Signature <u>[Signature]</u>
Printed <u>[Name]</u>	Time	Printed <u>[Name]</u>	Printed <u>[Name]</u>
Company <u>[Company]</u>	<u>11:00am</u>	Company <u>[Company]</u>	Company <u>[Company]</u>
Reason <u>[Reason]</u>		Reason <u>[Reason]</u>	Reason <u>[Reason]</u>

Date	12/14/85
Time	3:10 PM

Received by:	Julia H Campbell
Signature	<i>Julia H Campbell</i>
Printed	Julia H. Campbell
Company	AAU
Reason	Handwritten note: [illegible]

Method of Shipment: _____	Comments: _____
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

COLLEGE

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 # 31</u>	
Location: Unit or Qtr/Qtr Sec <u>I</u> Sec <u>23</u> T <u>24N</u> R <u>4W</u> County <u>RIO ARRIBA</u>	
Land Type <u>JIC. TRIBAL</u>	
Date Remediation Started: <u>11/2/95</u> Date Completed: <u>6/19/97</u>	
Remediation Method: Landfarmed <u>XXX</u> Approx. cubic yards <u>96</u>	
Composted _____	
Other _____	
Depth to Groundwater: (pts) <u>0</u>	Final Closure Sampling Sampling Date: <u>6/19/97</u> Time: <u>1:30PM</u> Sample Results: Field Headspace (ppm) <u>0</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>Ken C. Mamm</u>	DATE: <u>9-2-97</u>

APACHE CORPORATION/FARMINGTON DISTRICT SOIL REMEDIATIONS STATUS REPORT

REMEDIATION SITE APACHE # 31

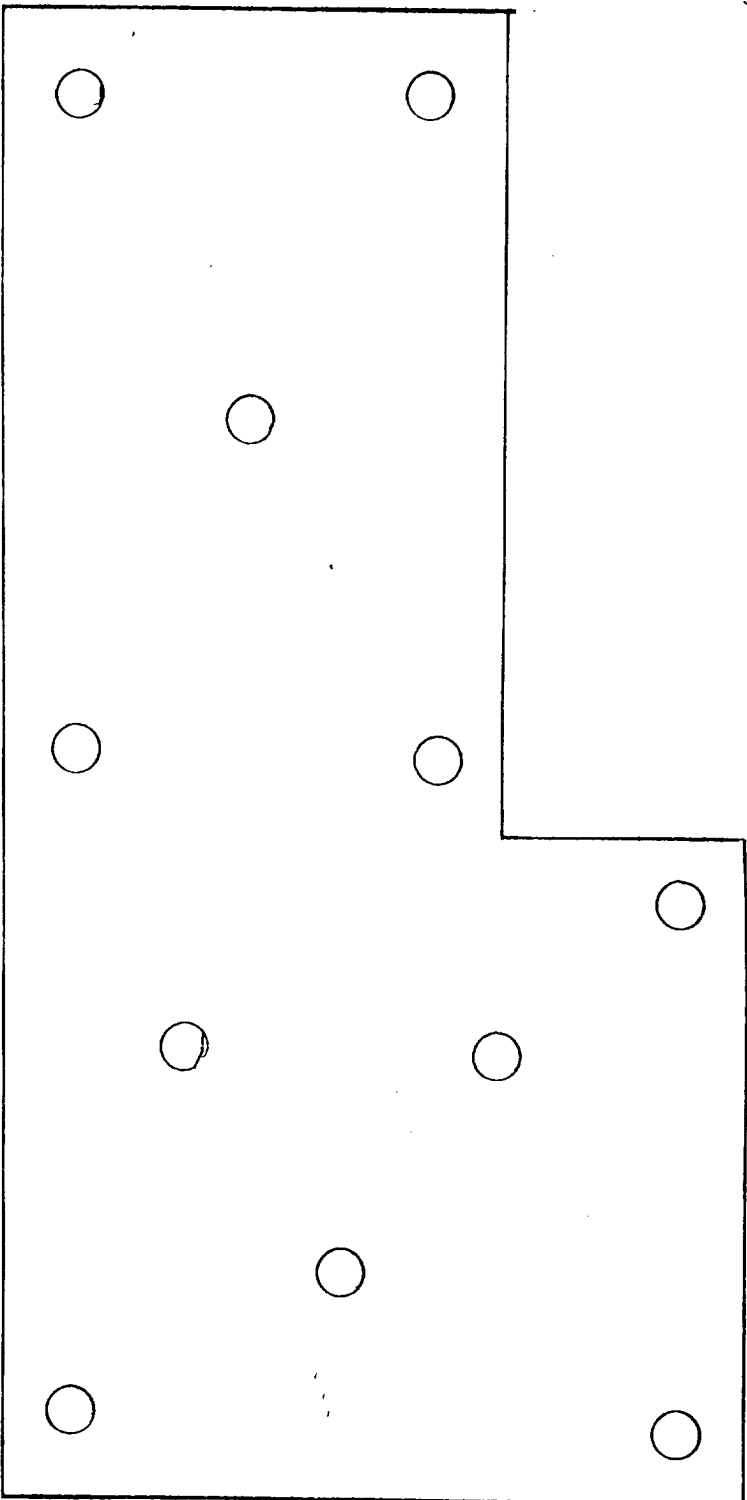
* AMOUNT OF SOIL UNDERGOING REMEDIATION 96 Yds.

CELL No. <u>#1</u>	SampDATE 6/19/97	TPH ND	BTEX ND
DIMENSIONS(LxWxH) <u>60' L X 30' W X 18" H</u>			
CELL LOCATION (dir. from well head) <u>SOUTH</u>			
* DATE BEGAN: <u>11/2/95</u>			
DATE TERMINATED (TPH <5,000 ppm/BTEX< 50 ppm/Benzene < 10 ppm) <u>6/19/97</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) _____			
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)			
11/2/95 TREAT WITH 28-4-4 FERTILIZER , TILL SOIL.			
6/12/97TREAT WITH 46-0-0 FERTILIZER , WATER AND TILL SOIL.			
6/17/97 WATER AND TILL SOIL.			

From excavation reports.

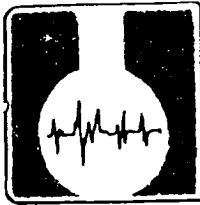
WELL NAME: Apache #31
SAMPLE DATE: 6-19-97
DIMENSIONS: 600' X 30' W X 18" H

○ = SAMPLE AREA



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

11 point composite sample
PI0 composite reading 0.0 ppm.



**ASSAIGAI
ANALYTICAL
LABORATORIES, INC.**

JUL 21 1997

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:
June 30, 1997 16:04

**CERTIFICATE OF ANALYSIS
RESULTS BY SAMPLE**

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

WORKORDER # : 9706225
WORK ID : JICARILLA PIT CLOSURES
CLIENT CODE : APA01
DATE RECEIVED : 06/23/97

ATTN: JEFF CROSS

Page: 1

Lab ID: 9706225-01A
Sample ID: APACHE #31 CELL

Collected: 06/19/97 13:30:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A	ND	mg/kg	0.0050	100	06/24/97	SBTXME172
Benzene	ND	mg/kg	0.0050	100	06/24/97	SBTXME172
Toluene	ND	mg/kg	0.0050	100	06/24/97	SBTXME172
Ethylbenzene	ND	mg/kg	0.010	100	06/24/97	SBTXME172
P-&m-Xylene	ND	mg/kg	0.0050	100	06/24/97	SBTXME172
O-Xylene	ND	mg/kg	0.0050	100	06/24/97	SBTXME172

Lab ID: 9706225-01B
Sample ID: APACHE #31 CELL

Collected: 06/19/97 13:30:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
Diesel Range OG Soil/M8015	ND	mg/Kg	50	25	06/28/97	SDRO037
Diesel Range OG in Soil						

William P. Biava
William P. Biava
President



WORKORDER COMMENTS

DATE : 06/30/97
WORKORDER:

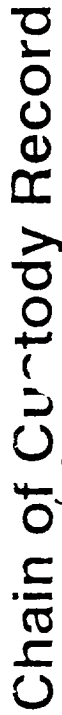
DEFINITIONS/DATA QUALIFIERS

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



Lab job no: 4665 Date 6-23-97

Page 1 of 1

Project Manager / Contact ~~Jeff Cross~~

Telephone No. (505) 774-6643

Fax No. (505) 774-6624

Samplers: (Signature) 

Contract / Purchase Order / Quote

[illegible]

Relinquished by: Signature <u>Jeff Lewis</u> Printed <u>Jeff Lewis</u> Company <u>Apache Corp.</u> Reason _____	Date <u>6-23-97</u> Time <u>15:30</u>	Received by: Signature <u>Scott Peats</u> Printed <u>SCOTT PEATS</u> Company <u>RAE</u> Reason _____	Relinquished by: Signature _____ Printed _____ Company _____ Reason _____
---	--	--	---

Received by:	Notified by:
Signature <u>SCOTT BEATS</u>	Signature _____
Printed <u>SCOTT BEATS</u>	Printed _____
Company <u>AAA</u>	Company _____
Reason _____	Reason _____

Relinquished by: _____
Signature _____
Printed _____
Company _____
Reason _____

Received by:	Notified by:
Signature <u>SCOTT BEATS</u>	Signature _____
Printed <u>SCOTT BEATS</u>	Printed _____
Company <u>AAA</u>	Company _____
Reason _____	Reason _____

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

[illegible]

Comments:

[illegible]

Date	6/21/97
Time	8:00
Received by	Eileen Ryan
Signature	Eileen Ryan
Printed	AAAL
Company	
Reason	

After analysis, samples are to be:

☐ Disposed of (additional fee)

☐ **Additional information is not needed** (2)☐ Stored (30 days max)

☐ Stored over 30 days (H)

☐ Returned to customer

LABORATORY