

District III
Senny G. Frost
1000 Rio Arriba Rd
Santa Fe, NM 87410
DEPUTY OIL & GAS INSPECTOR

DEC 17 1998

State of New Mexico
Energy, Minerals and Natural Resources Department

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

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

PIT REMEDIATION AND CLOSURE REPORT

RECEIVED
JUL 6 1998

Operator: **Apache Corporation** Telephone: **505 325 9318**

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

Facility or Well Name: **Apache # 121 Pit 1**

Location: Unit or Qtr/Qtr Sec **A Sec 13 T 24 N R 4W** County **Rio Arriba**

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

Land Type: **Jicarilla Tribal**

Beginning Pit Dimensions: Length **20'** Width **30'** Depth **6'**
Pit Location: Ending Pit Dimensions: Length **20'** Width **30'** Depth **10'**
(Attach diagram) Reference: Wellhead **XX** Other **XX**
Footage from reference: **95'**
Direction from reference: **250** Degrees **XX** East of North
XX West South **X**

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

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) **0**
No (0 points) **0**

Distance To Surface Water:
(Horizontal distance to perennial
lakes, ponds, rivers, streams, creeks,
irrigation canals and ditches)
Less than 200 feet (20 points) **0**
200 feet to 1000 feet (10 points) **0**
Greater than 1000 feet (0 points) **0**

RANKING SCORE (TOTAL POINTS) **0**

Date Remediation Started:		<u>10/4/95</u>	Date Completed:		<u>11/29/95</u>
Remediation Method: (Check all appropriate sections)		Excavation <u>XXX</u>	Approx. cubic yards	<u>88</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. Pit back filled w/ fill dirt</u>					
Groundwater Encountered: No <u>XX</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>10'</u>	<u>8 to 10" into pit sidewalls 10" into pit bottom</u>		
Sample Date		<u>11/29/95</u>	Sample Time	<u>11:01 P.M.</u>	
Sample results					
Benzene		(ppm)	<u>ND</u>		
Total BTEX		(ppm)	<u>2.16</u>		
Field Headspace		(ppm)	<u>0.5</u>		
TPH			<u>2800</u>		
Groundwater Sample: Yes _____ No <u>XX</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>June 8, 1998</u>	PRINTED NAME	<u>Jeff Cross</u>	
SIGNATURE		<u>Jeff Cross</u>	AND TITLE	<u>Project Manager</u>	

District III
1000 Rio Erazos Rd
Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department

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

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

PIT REMEDIATION AND CLOSURE REPORT

Operator: Apache Corporation Telephone: 505-325-0318

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

Facility or Well Name: Apache # 121 Pit 2

Location: Unit or Qtr/Qtr Sec A Sec 13 T 24 N R 4W County Rio Arriba

Pit Type: Separator: _____ Dehydrator _____ Other Tank Drain

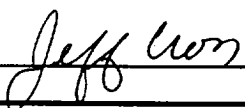
Land Type: Jicarilla Tribal

Beginning Pit Dimensions:	Length	<u>20'</u>	Width	<u>30'</u>	Depth	<u>6'</u>	
Pit Location: (Attach diagram)	Ending Pit Dimensions:	Length	<u>20'</u>	Width	<u>30'</u>	Depth	<u>10'</u>
Reference:	Wellhead	<u>XX</u>	Other	_____			
Footage from reference:	<u>97'</u>						
Direction from reference:	<u>150</u>	Degrees	<u>X</u>	East	North	_____	
				West	of	_____	
					South	<u>XX</u>	

Depth To Groundwater: (vertical distance from contaminants to seasonal high water elevation of groundwater)	Less than 50 feet	(20 points)	_____
	50 feet to 99 feet	(10 points)	_____
	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)	_____
	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 200 feet	(20 points)	_____
	200 feet to 1000 feet	(10 points)	_____
	Greater than 1000 feet	(0 points)	<u>0</u>
RANKING SCORE (TOTAL POINTS)			<u>0</u>

Date Remediation Started:		<u>10/5/95</u>	Date Completed:		<u>11/29/95</u>
Remediation Method: (Check all appropriate sections)		Excavation <u>XXX</u>	Approx. cubic yards	<u>88</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. Pit back filled w/ fill dirt</u>			
Groundwater Encountered:		No <u>XX</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>10'</u>	<u>8 to 10" into pit sidewalls 10" into pit bottom</u>			
	Sample Date	<u>11/29/95</u>	Sample Time	<u>10:50 A.M.</u>	
	Sample results				
	Benzene	(ppm)	<u>ND</u>		
	Total BTEX	(ppm)	<u>ND</u>		
	Field Headspace	(ppm)	<u>0.76</u>		
	TPH		<u>ND</u>		
Groundwater Sample:		Yes _____	No <u>XX</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>June 8, 1998</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>2855 SOUTHSIDE RIVER ROAD / SUITE A / FARMINGTON N.M. 87401-7947</u>																							
Facility or Well Name: <u>APACHE # 121 PIT # 1</u>																							
Location:	Unit or Qtr/Qtr	Sec <u>A</u>	SEC 13 T 24N R 4W County <u>RIO ARRIBA</u>																				
Pit Type:	Separator: <u>XX</u>	Dehydrator	Other																				
Land Type: <u>JIC. TRIBAL</u>																							
<table border="0" style="width: 100%;"> <tr> <td>Pit Location:</td> <td>Pit Dimensions:</td> <td>Length <u>20'</u></td> <td>Width <u>30'</u></td> <td>Depth <u>10'</u></td> </tr> <tr> <td>(Attach diagram)</td> <td>Reference:</td> <td>Wellhead <u>XXX</u></td> <td>Other</td> <td></td> </tr> <tr> <td></td> <td>Footage from reference:</td> <td><u>95'</u></td> <td></td> <td></td> </tr> <tr> <td></td> <td>Direction from reference:</td> <td><u>250</u> Degrees</td> <td><u>XX</u> West</td> <td>East North of South <u>X</u></td> </tr> </table>				Pit Location:	Pit Dimensions:	Length <u>20'</u>	Width <u>30'</u>	Depth <u>10'</u>	(Attach diagram)	Reference:	Wellhead <u>XXX</u>	Other			Footage from reference:	<u>95'</u>				Direction from reference:	<u>250</u> Degrees	<u>XX</u> West	East North of South <u>X</u>
Pit Location:	Pit Dimensions:	Length <u>20'</u>	Width <u>30'</u>	Depth <u>10'</u>																			
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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) <u>0</u>																				
high water elevation of																							
groundwater)																							
Distance to an Ephemeral Stream:		Less than 100 feet	(10 points)																				
(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)																				
(Downgradient lakes, playas and		Greater than 100 feet	(0 points) <u>0</u>																				
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Wellhead Protection Area:		Yes	(20 points)																				
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RANKING SCORE (TOTAL POINTS)			<u>0</u>																				

Date Remediation Started:		<u>10/4/95</u>		Date Completed:		<u>11/29/95</u>	
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		Landfarmed <u>XX</u>		Insitu Bioremediation			
		Other _____					
Remediation Location: (i.e. landfarmed onsite, name and location of offsite facility)		Onsite <u>XX</u>		Offsite _____			
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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>10'</u> <u>8" to 10" into pit side walls, 10" into pit bottom.</u>					
Sample Date		<u>11/29/95</u>		Sample Time		<u>11:01AM</u>	
Sample results							
Soil:	Benzene	(ppm)	<u>ND</u>	Water:	Benzene	(ppb)	<u>NA</u>
	Total BTEX	(ppm)	<u>2.16</u>		Toluene	(ppb)	<u>NA</u>
	Field Headspace	(ppm)	<u>0.5</u>		Ethylbenzene	(ppb)	<u>NA</u>
	TPH	(ppm)	<u>2800</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>5/26/98</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>Kevin M. ...</u>		DATE:		<u>6-2-98</u>	

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

Submit 1 copy to
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and Oil & Gas Administration

PIT REMEDIATION AND CLOSURE REPORT

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Facility or Well Name: <u>APACHE # 121 PIT # 2</u>																												
Location:	Unit or Qtr/Qtr	Sec <u>A</u>	SEC 13 T 24N R 4W County <u>RIO ARRIBA</u>																									
Pit Type:	Separator: _____	Dehydrator: _____	Other <u>TANK DRAIN</u>																									
Land Type: <u>JIC. TRIBAL</u>																												
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Date Remediation Started: <u>10/5/95</u>		Date Completed: <u>11/29/95</u>	
Remediation Method: (Check all appropriate sections)	Excavation <u>XXX</u>	Approx. cubic yards	<u>88</u>
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General Description of Remedial Action: <u>Excavate pit to 10',took PID readings. spread soil on location for remediation. Took soil samples. Pit Back Filled w/ Fill Dirt</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>10' 8" to 10" into pit side walls ,10" into pit bottom.</u>		
Sample Date	<u>11/29/95</u>	Sample Time	<u>10:50AM</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>0.76</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>5/26/98</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>Kate C. Mann</u>	DATE:	<u>6-2-98</u>

**APACHE CORPORATION FARMINGTON DISTRICT
PIT EXCAVATION AND CLOSURE REPORT**

**JICARILLA APACHE TRIBAL EPO
REVIEW AND APPROVAL**

LOCATION: APACHE 121

DATE:

PIT COUNT: 2

EPO REPRESENTATIVE K.C.

DATE OF REVIEW: 11/29/95

		EXCAVATION							
DIMENSIONS		START		FINISH					
	W'	L'	D'		W'	L'	D'	CU.YDS.	
PIT 1	30'	20'	6'	PIT 1	30'	20'	10'	88.0	
PIT 2	30'	20'	6'	PIT 2	30'	20'	10'	88.0	
PIT 3				PIT 3					
DATE: 10/04/95		PIT 1@ 08'	PIT 2@ 08'	PIT 3@	DATE: 11/29/95		PIT 1@ 10'	PIT 2@ 10'	PIT 3@
P. I. D.	CENTER	120.1	409.0		P. I. D.	CENTER	0.0	0.0	
	NW CORNER	20.3	1.2			NW CORNER	0.0	0.0	
	NE CORNER	1.8	325.0			NE CORNER	0.0	0.0	
	SW CORNER	62.5	750.0			SW CORNER	0.0	2.3	
	SE CORNER	102.3	504.0			SE CORNER	2.5	1.5	

NOTES:

10/04/95 PIT 1 - Excavate to 10', staining and odor to 8'.

10/05/95 PIT 2 - Excavate to 10', staining to 8', hit sandstone @ 9'.

*High TPH & BTEX levels PIT 2 from 10/05 sampling @ 8'.

SOIL SAMPLING

DATE: 10/04/95		PIT 1@ 08'	PIT 2@ 08'	PIT 3@	ANALYSIS RESULTS			PER LAB:	ASSAIGAI
P. I. D.	CENTER	120.1	409.0		PIT	TPH	BTEX	WITNESS	DATE
	NW CORNER	20.3	1.2		NO.				
	NE CORNER	1.8	325.0		1	440.0	ND	IF&S	10/04/95
	SW CORNER	62.5	750.0		2	7600.0	80.6	IF&S	10/05/95
	SE CORNER	102.3	504.0						

RE-SAMPLE OR CELL(S) SAMPLE

DATE: 11/29/95		PIT 1@ 10'	PIT 2@ 10'	PIT 3@	ANALYSIS RESULTS			PER LAB:	ASSAIGAI
P. I. D.	CENTER	0.0	0.0		PIT	TPH	BTEX	WITNESS	DATE
	NW CORNER	0.0	0.0		NO.				
	NE CORNER	0.0	0.0		1	2800.0	2.16	JDT	11/29/95
	SW CORNER	0.0	2.3		2	ND	ND	JDT	11/29/95
	SE CORNER	2.5	1.5						

RE-SAMPLE OR CELL(S) SAMPLE

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

**PIT CLOSURE STATUS REPORT
(CONFIDENTIAL)**

Date: 10/04/95				Well Number: MW 121		Proj. Number: 95017	
Date Start: 10/04/95				Number of Pits: 1			
Date Finished: 10/05/95							
DIMENSIONS & YARDAGE							
1	Type:	H	X	C	Dimensions Pit 1 Start:	30' x 20' x 6'	Dimensions Pit 1 Finished: 30' x 20' x 10'
2	Type:	H		C	Dimensions Pit 2 Start:	30' x 20' x 6'	Dimensions Pit 2 Finished: 30' x 20' x 10'
3	Type:	H		C	Dimensions Pit 3 Start:		Dimensions Pit 3 Finished:
Total Cu. Yards Removed:						177	Total Liquids Removed: 2 bbls.

TPH & BTEX ANALYSIS

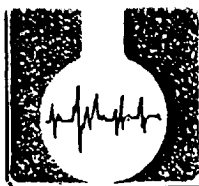
[illegible]

Notes:

PID READINGS					Site Number: MW 121
Date	Pit No.	Interval (Depth)	Location	Reading (ppm)	Notes:
10/04/95	1	10'	Center	120.1	Encountered 1 bbl. Of water below pit surface, mixed with excavated soil. First 3.5 feet a black, pudding like mixture of sand and other materials. Fluffed and rolled the bottom two feet, noted soil underneath still stained, will return to site in a couple of days.
10/04/95	1	10'	Bottom, N.W. Corner	20.3	
10/04/95	1	10'	Bottom, N.E. Corner	1.8	
10/04/95	1	10'	Bottom, S.W. Corner	62.5	
10/04/95	1	10'	Bottom, S.E. Corner	102.3	
10/05/95	2	10'	Center	409	Very dark black tar like material intermixed with sand for the first 2 feet of excavation. Soil continues with black stain with small amounts of light gray sand stringers interspersed to total depth.
10/05/95	2	10'	Bottom, N.W. Corner	1.2	
10/05/95	2	10'	Bottom, N.E. Corner	325	
10/05/95	2	10'	Bottom, S.W. Corner	750	
10/05/95	2	10'	Bottom, S.E. Corner	504	
11/29/95	1	10	Center	0	
			N.W	0	
			N.E	0	
			S.W	0	
			S.E	2.5	
11/29/95	2	10	Center	0	
			N.W	0	
			N.E	0	
			S.W	2.3	
			S.E	1.5	



SIDEWALL AND PIT BOTTOM.



AMERICAN 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:

December 14, 1995 12:12

CERTIFICATE OF ANALYSIS RESULTS BY SAMPLE

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

WORKORDER # : 9512029
WORK ID : PIT REMEDIATION
CLIENT CODE : APA01
DATE RECEIVED : 12/04/95

ATTN: JOHN TAYLOR

Page: 1

Lab ID: 9512029-01A
Sample ID: AP #110

Collected: 11/29/95 10:25:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/Kg	0.0010	500	12/05/95	SBTXME092
Toluene	ND	mg/Kg	0.0010	500	12/05/95	SBTXME092
Ethylbenzene	ND	mg/Kg	0.0010	500	12/05/95	SBTXME092
P-&m-Xylene	ND	mg/Kg	0.0010	500	12/05/95	SBTXME092
O-Xylene	ND	mg/Kg	0.0010	500	12/05/95	SBTXME092

b ID: 9512029-01B
Sample ID: AP #110

Collected: 11/29/95 10:25:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
HCs DIESEL/CAL DHS 8015M						
Diesel	440	mg/Kg	5.0	50	12/07/95	SLFTD053
HCs DSL XT/CAL DHS 8015M	12/05/95	N/A				

Lab ID: 9512029-02A
Sample ID: AP ~~110~~ *P.12*

Collected: 11/29/95 10:50:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/Kg	0.0010	500	12/05/95	SBTXME092
Toluene	ND	mg/Kg	0.0010	500	12/05/95	SBTXME092
Ethylbenzene	ND	mg/Kg	0.0010	500	12/05/95	SBTXME092
P-&m-Xylene	ND	mg/Kg	0.0010	500	12/05/95	SBTXME092
O-Xylene	ND	mg/Kg	0.0010	500	12/05/95	SBTXME092



Lab ID: 9512029-02B

Sample ID: AP #120 *Pit #2*

Collected: 11/29/95 10:50:00

Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
HCs DIESEL/CAL DHS 8015M						
Diesel		mg/Kg	5.0	50	12/07/95	SLFTD053
HCs DSL XT/CAL DHS 8015M		N/A				

Lab ID: 9512029-03A

Sample ID: AP #120 *Pit #1*

Collected: 11/29/95 11:01:00

Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/Kg	0.0010	500	12/05/95	SBTXME092
Toluene	ND	mg/Kg	0.0010	500	12/05/95	SBTXME092
Ethylbenzene	ND	mg/Kg	0.0010	500	12/05/95	SBTXME092
P-&m-Xylene	ND	mg/Kg	0.0010	500	12/05/95	SBTXME092
O-Xylene	ND	mg/Kg	0.0010	500	12/05/95	SBTXME092

Lab ID: 9512029-03B

Sample ID: AP #120 *Pit #1*

Collected: 11/29/95 11:01:00

Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
HCs DIESEL/CAL DHS 8015M						
Diesel		mg/Kg	5.0	250	12/07/95	SLFTD053
HCs DSL XT/CAL DHS 8015M	12/05/95	N/A				

Lab ID: 9512029-04A

Sample ID: AP #120

Collected: 11/29/95 11:20:00

Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/Kg	0.0010	500	12/05/95	SBTXME092
Toluene	ND	mg/Kg	0.0010	500	12/05/95	SBTXME092
Ethylbenzene	0.95	mg/Kg	0.0010	500	12/05/95	SBTXME092
P-&m-Xylene	5.2	mg/Kg	0.0010	500	12/05/95	SBTXME092
O-Xylene	2.6	mg/Kg	0.0010	500	12/05/95	SBTXME092

Lab ID: 9512029-04B

Sample ID: AP #120

Collected: 11/29/95 11:20:00

Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
DIESEL/CAL DHS 8015M						
Diesel	8800	mg/Kg	5.0	500	12/07/95	SLFTD053
HCs DSL XT/CAL DHS 8015M	12/05/95	N/A				



ASSAIGAI
ANALYTICAL
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Chain of Custody Record

Lab Job no: 1105 Date 11/1/95

Page 2 of 2

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

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

MELOQUADES ALANIS
6411 LOCAL UNO
CIUDAD JUÁREZ, CHIHUAHUA MEXICO 32320

Client Apache Corp. Project Manager / Contact John Taylor

Address 304 N. Fenbrend Telephone No. 505-325-325 Fax No. 505-325-0325

City / State / Zip Farmington N.M. 87401

Project Name / Number Pt Remediation 95017 Samplers: (Signature) [Signature]

Contract / Purchase Order / Quote

AAL FRACTION NUMBER	Field Sample Number / Location	Date	Time	Sample Type	Type / Size of Container	Preservation		Remarks
						Temp.	Chemical	
11	AP# 121-SH	10/5	10:41	Soil	6 1/2 SS 402		ICE	
12	AP# 121-SH	10/5	10:41					
13	AP# 145-H	10/5	4:40					
14	AP# 145-H	10/5	4:40					
15	AP# 122-H	10/6	1:32					
16	AP# 122-H	10/6	1:32					
17	AP# 130-H	10/9	11:20					
18	AP# 130-H	10/9	11:20					

Relinquished by:	Date	Received by:	Date
Signature <u>[Signature]</u>	<u>10/10/95</u>	Signature <u>[Signature]</u>	<u>11/1/95</u>
Printed <u>Donna Anderson</u>	Time <u>3:58 PM</u>	Printed <u>John Taylor</u>	
Company <u>I.E.S.</u>		Company <u>ATA</u>	
Reason <u>Testing</u>		Reason <u>Analysis</u>	

Method of Shipment: Comments:

Shipment No.

Special Instructions:

After analysis, samples are to be:

☐ Disposed of (additional fee)

☐ Stored (30 days max)

☐ Stored over 80 days (additional fee)

☐ Returned to customer

COL. R

NORTH
GENERAL DRAINAGE

APACHE

APACHE NUMBER 121 Lease # JAT 129
NE/4 NE/4 (A)

SECTION 13. TOWNSHIP 24N. RANGE 4W
RIO ARriba COUNTY. NM

Revised 6/1/87 HG

WELL HEAD



PIT 1

230' WSW
45' FWH

LAND FARM

120' X 30' X 18"

150' SSE

97' FWH
PIT 2

400 BBL

OIL

400 BBL

WATER

BRIG

PIT

Buried.

BRIG LIME DRIP



4' X 40' BRIG METER RUN

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

Operator: <u>APACHE CORPORATION</u>		Telephone <u>505-325-0318</u>	
Address: <u>2855 SOUTHSIDE RIVER ROAD/SUITE A / FARMINGTON , N.M. 87401-7947</u>			
Facility or Well Name: <u>APACHE # 121</u>			
Location: Unit or Qtr/Qtr		Sec <u>A</u>	Sec <u>13</u> T <u>24N</u> R <u>4W</u> County <u>RIO ARRIBA</u>
Land Type <u>JIC. TRIBAL</u>			
Date Remediation Started: <u>10/4/95</u>		Date Completed: <u>5/14/98</u>	
Remediation Method: Landfarmed <u>XXX</u>		Approx. cubic yards <u>176</u>	
Composted _____			
Other _____			
Depth to Groundwater: (pts) <u>0</u>		Final Closure Sampling Sampling Date: <u>5/14/98</u> Time: <u>2:00PM</u> Sample Results: Field Headspace (ppm) <u>ND</u> TPH (ppm) <u>ND</u> Method <u>M8015</u> Other <u>BTEX \ SW846 , 8020A (ND)</u>	
Distance to an Ephemeral Stream: (pts) <u>0</u>			
Distance to Nearest Lake, Playa, or Watering Pond: (pts) <u>0</u>			
Wellhead Protection Area: (pts) <u>0</u>			
Distance To Surface Water: (pts) <u>0</u>			
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>5/26/98</u>		PRINTED NAME <u>JEFF CROSS</u>	
SIGNATURE <u>Jeff Cross</u>		TITLE <u>PROJECT MANAGER</u>	
AFTER REVIEW OF THE SOIL REMEDIATION INFORMATION. ON-SITE REMEDIATION IS APPROVED IN ACCORDANCE TO THE JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE.			
APPROVED: YES <u>X</u> NO _____ (REASON) _____			
SIGNED: <u>Kevin Mamm</u>		DATE: <u>6-2-98</u>	

APACHE CORPORATION/FARMINGTON DISTRICT SOIL REMEDIATIONS STATUS REPORT

REMEDIATION SITE APACHE # 121

* AMOUNT OF SOIL UNDERGOING REMEDIATION 176 Yds.

CELL No. <u>1</u>	SampDATE 5/14/98	TPH ND	BTEX ND
DIMENSIONS(LxWxH) <u>120' X 30' X 18"</u>			
CELL LOCATION (dir. from well head) <u>SOUTH</u>			
* DATE BEGAN: <u>10/4/95</u>			
DATE TERMINATED (TPH <5,000 ppm/BTEX< 50 ppm/Benzene < 10 ppm) <u>5/14/98</u>			
CELL No. <u>2</u>	SampDATE	TPH	BTEX
DIMENSIONS(LxWxH) _____			
CELL LOCATION (dir. from well head) _____			
* DATE BEGAN: _____			
DATE TERMINATED (TPH <5,000 ppm/BTEX< 50 ppm/Benzene < 10 ppm) _____			
CELL No. <u>3</u>	SampDATE	TPH	BTEX
DIMENSIONS(LxWxH) _____			
CELL LOCATION (dir. from well head) _____			
* DATE BEGAN: _____			
DATE TERMINATED (TPH <5,000 ppm/BTEX< 50 ppm/Benzene < 10 ppm) _____			
REMEDICATION RECORD: (Date, Treatment, Tilling)			
10/7/95 TREAT SOIL WITH 28-0-0 FERTILIZER, WATER , PLOW AND TILL SOIL.			
8/4/97 TREAT SOIL WITH 46-0-0 FERTILIZER,35LBS PHOSPHORUS,70LBS LIME, WATER,PLOW AND TILL SOI			
5/5/98 PLOW SOIL.			
5/10/98 TILL SOIL.			

From excavation reports.

WELL NAME:

Apache #121

SAMPLE DATE:

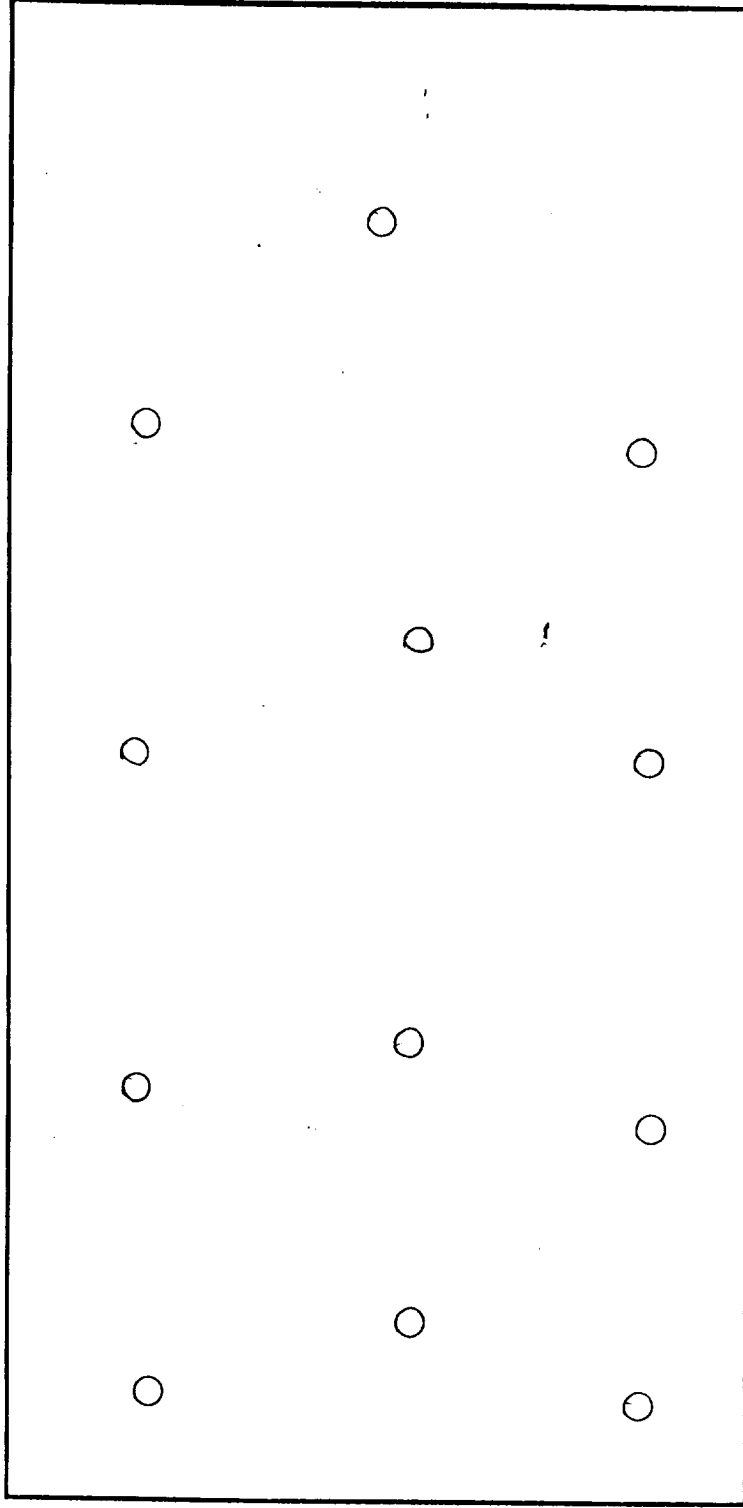
5-14-98

DIMENSIONS:

120' X 30' X 18"



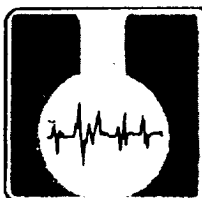
= SAMPLE AREA



NOTES:

ALL SAMPLES TAKEN 10" TO 12" INTO CELL.

12 point composite sample

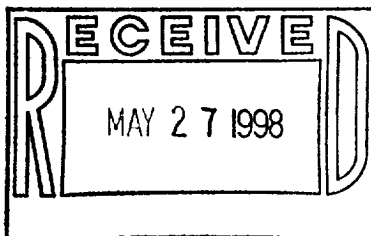


ASSAIGAI ANALYTICAL LABORATORIES, INC.

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

APACHE CORPORATION
attn: JEFF CROSS
2855 SOUTHSIDE RIVER RD STE A
FARMINGTON, NM 87401-7947



* explanation of codes

B	analyte detected in Method Blank
E	result is estimated
H	analyzed out of hold time
N	tentatively identified compound
S	subcontracted
1-9	see footnote

Assaigai Analytical Laboratories, Inc.

Certificate of Analysis

Client: APACHE CORPORATION
Project: 9805133 JICARILLA PIT CLOSURE

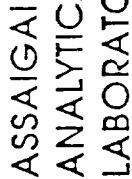
William P. Biava
William P. Biava: President of Assaigai Analytical Laboratories, Inc.

Client Sample ID: **APACHE #121 CELL** Sample Matrix: **SOIL** Sample Collected: **05/14/98 14:00:00**

Fraction	QC Group	CAS #	Result	Units	Dilution Factor	Detection Limit	Sequence	Run Date
SW846-8020 Volatiles								
9805133-01A	X98267	71-43-2	Benzene	ND	mg / Kg	50	0.005	05/15/98
	X98267	100-41-4	Ethylbenzene	ND	mg / Kg	50	0.005	
	X98267	95-47-6	o-Xylene	ND	mg / Kg	50	0.005	
	X98267		p/m Xylenes	ND	mg / Kg	50	0.01	
	X98267	108-88-3	Toluene	ND	mg / Kg	50	0.005	
SW846-8015 Modified TPH								
9805133-01B	X98268		Diesel Range Organics	ND	mg / Kg	25	25	05/15/98

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





Chain of Custody Record

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

Lab job no.: 5133 Date: 05/15/98

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

Page _____ of _____

Client Apache Corporation Project Manager / Contact Jeff Cross

Address 2855 Southside River RD, Ste. A Telephone No. (505) 774-6643

City/State/Zip Parminster, NM 87401-7947 Fax No. (505) 774-6624

Project Name / Number _____

Samplers: (Signature) Jeffrey

Contract / Purchase Order / Quote _____

[illegible]

Relinquished by: _____ Signature <u>Jeff Cross</u> Printed <u>Jeff Cross</u> Company <u>Apache Corp</u> Reason _____	Date <u>5-15-98</u> Time <u>9:30</u>	Received by: _____ Signature <u>Scott Pratt</u> Printed <u>SCOTT PRATT</u> Company <u>AAAL</u> Reason _____	Relinquished by: _____ Signature <u>Scott Pratt</u> Printed <u>SCOTT</u> Company <u>AAAL</u> Reason _____
Method of Shipment: _____ Shipment No. _____ Special Instructions: _____		Comments: _____ _____ _____	

Analysis Required		Remarks
Date	Received by:	
15 May 98	Signature <u>Rich Chidress</u>	
	Printed <u>Rich Chidress</u>	
	Company <u>APL</u>	
	Reason <u>Analysis</u>	
11:30		
After analysis, samples are to be:		
☐ Disposed of (additional fee) ☐ Stored (30 days max) ☐ Stored over 30 days (additional fee) ☐ Returned to customer		

LABORATORY