

District

1000

Aztec, NM 87410

Dennis E. Faust
DEPUTY OIL & GAS INSPECTOR

DEC 17 1998

State of New Mexico

State Lands 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

Approved

PIT REMEDIATION AND CLOSURE REPORT

RECEIVED
 JUL 6 1998

Operator: **Apache Corporation**

Telephone:

OIL CON. DIV.
505-325-0318
Dist. 3

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

Facility or Well Name:

Apache # 112 Pit #1

Location: Unit or Qtr/Qtr Sec

C**Sec 24****T 24 N****R 4W**

County

Rio Arriba

Pit Type: Separator:

Dehydrator

Other

Tank Drain\Blow Pit

Land Type:

Jicarilla Tribal

Beginning Pit Dimensions:

Length

42'

Width

42'

Depth

5.5'

Pit Location:

Ending Pit Dimensions:

Length

42'

Width

42'

Depth

10'

(Attach diagram)

Reference:

Wellhead

XXX

Other

Footage from reference:

145'

Direction from reference:

344

Degrees

East

North

XX

of

XX

West

South

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)

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)

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)

200 feet to 1000 feet

(10 points)

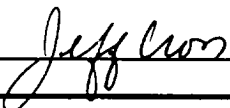
Greater than 1000 feet

(0 points)

0

RANKING SCORE (TOTAL POINTS)

0

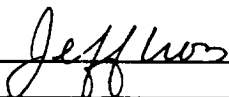
Date Remediation Started:		<u>10/10/95</u>	Date Completed:		<u>11/29/95</u>
Remediation Method: (Check all appropriate sections)		Excavation	<u>XXX</u>	Approx. cubic yards	<u>294</u>
		Landfarmed	<u>XX</u>	Insitu Bioremediation	
		Other			
Remediation Location: (i.e. landfarmed onsite, name and location 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>12:38 P.M.</u>
Sample results					
Benzene		(ppm)	<u>ND</u>		
Total BTEX		(ppm)	<u>3.2</u>		
Field Headspace		(ppm)	<u>18.14</u>		
TPH			<u>4400</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			AND TITLE		<u>Project Manager</u>

State of New Mexico
Energy, Minerals and Natural Resources Department

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

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 # 112 Pit #2</u>	
Location: Unit or Qtr/Qtr Sec	<u>C</u>	<u>Sec 24</u>	<u>T 24 N R 4W</u> County <u>Rio Arriba</u>
Pit Type: Separator:	<u>Dehydrator</u>	Other	<u>Drip Pit</u>
Land Type:	<u>Jicarilla Tribal</u>		
<p>Beginning Pit Dimensions: Length <u>15'</u> Width <u>15'</u> Depth <u>3'</u></p> <p>Pit Location: Ending Pit Dimensions: Length <u>15'</u> Width <u>15'</u> Depth <u>6'</u> (Attach diagram)</p> <p>Reference: Wellhead <u>XXX</u> Other _____</p> <p>Footage from reference: <u>1500</u></p> <p>Direction from reference: <u>40</u> Degrees <u>XX</u> East North <u>XX</u> West of South _____</p>			
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)			
Wellhead Protection Area:		Yes (20 points) _____	
(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) _____	
(Horizontal distance to perennial		200 feet to 1000 feet (10 points) _____	
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>10/10/95</u>	Date Completed:		<u>11/29/95</u>
Remediation Method: (Check all appropriate sections)		Excavation <u>XXX</u>	Approx. cubic yards		<u>27</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 6', 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>6'</u>	<u>8 to 10" into pit sidewalls 10" into pit bottom</u>		
Sample Date		<u>11/29/95</u>	Sample Time		<u>12:38 P.M.</u>
Sample results					
Benzene		(ppm)	<u>ND</u>		
Total BTEX		(ppm)	<u>ND</u>		
Field Headspace		(ppm)	<u>17.08</u>		
TPH			<u>260</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 # 112 PIT # 1</u>			
Location:	Unit or Qtr/Qtr	Sec <u>C</u>	SEC 24 T 24N R 4W County <u>RIO ARRIBA</u>
Pit Type:	Separator: <u> </u>	Dehydrator <u> </u>	Other <u>TANK DRAIN\ BLOW PIT</u>
Land Type: <u>JIC. TRIBAL</u>			

Pit Location: (Attach diagram)	Pit Dimensions:	Length <u>42'</u>	Width <u>42'</u>	Depth <u>10'</u>
	Reference:	Wellhead <u>XXX</u>	Other <u> </u>	
	Footage from reference:	<u>145'</u>		
	Direction from reference:	<u>344</u> Degrees	<u> </u> East	North <u>XX</u>
		<u>X</u> West	of South	<u> </u>

Depth To Groundwater: (vertical distance from contaminants to seasonal high water elevation of groundwater)	Less than 50 feet	(20 points)	<u> </u>
	50 feet to 99 feet	(10 points)	<u> </u>
	Greater than 100 feet	(0 points)	<u>0</u>
Distance to an Ephemeral Stream: (Downgradient dry wash greater than ten feet in width)	Less than 100 feet	(10 points)	<u> </u>
	Greater than 100 feet	(0 points)	<u>0</u>
Distance to Nearest Lake, Playa, or Watering Pond: (Downgradient lakes, playas and livestock or wildlife watering ponds)	Less than 100 feet	(10 points)	<u> </u>
	Greater than 100 feet	(0 points)	<u>0</u>
Wellhead Protection Area: (Less than 200 feet from a private domestic water source, or less than 1000 feet from all other water sources)	Yes	(20 points)	<u> </u>
	No	(0 points)	<u>0</u>
Distance To Surface Water: (Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)	Less than 100 feet	(20 points)	<u> </u>
	100 feet to 1000 feet	(10 points)	<u> </u>
	Greater than 1000 feet	(0 points)	<u>0</u>
RANKING SCORE (TOTAL POINTS)			<u>0</u>

Date Remediation Started:		<u>10/10/95</u>		Date Completed:		<u>11/29/95</u>	
Remediation Method: (Check all appropriate sections)		Excavation <u>XXX</u>		Approx. cubic yards		<u>294</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. Pit Backfilled 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'</u> <u>8" to 10" into pit side walls, 10" into pit bottom.</u>					
Sample Date		<u>11/29/95</u>		Sample Time		<u>12:38PM</u>	
Sample results							
Soil:	Benzene	(ppm)	<u>ND</u>	Water:	Benzene	(ppb)	<u>NA</u>
	Total BTEX	(ppm)	<u>3.2</u>		Toluene	(ppb)	<u>NA</u>
	Field Headspace	(ppm)	<u>18.14</u>		Ethylbenzene	(ppb)	<u>NA</u>
	TPH	(ppm)	<u>4400</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 Mammill</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
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 # 112 PIT # 2</u>			
Location:	Unit or Qtr/Qtr	Sec <u>C</u>	SEC 24 T 24N R 4W County <u>RIO ARRIBA</u>
Pit Type:	Separator: <u> </u>	Dehydrator <u> </u>	Other <u>DRIP PIT</u>
Land Type: <u>JIC. TRIBAL</u>			

Pit Location: (Attach diagram)	Pit Dimensions:	Length <u>15'</u>	Width <u>15'</u>	Depth <u>6'</u>
	Reference:	Wellhead <u>XXX</u>	Other <u> </u>	
	Footage from reference:	<u>1500</u>		
	Direction from reference:	<u>40</u> Degrees	<u>X</u> East	North <u>XX</u> 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: 10/10/95 Date Completed: 11/29/95

Remediation Method: Excavation XXX Approx. cubic yards 27

(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 6', took PID readings. spread soil on

location for remediation. Took soil samples. Pit Back Filled w/ Fill Dirt

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 6' 8" to 10" into pit side walls, 10" into pit bottom.

Sample Date 11/29/95 Sample Time 12:38PM

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>17.08</u>		Ethylbenzene	(ppb)	<u>NA</u>
	TPH	(ppm)	<u>260</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 5/26/98 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:

Kate C. Munnell

DATE:

6-2-98

APACHE CORPORATION FARMINGTON DISTRICT PIT EXCAVATION AND CLOSURE REPORT

LOCATION: APACHE 112

PIT COUNT: 2

JICARILLA APACHE TRIBAL EPO
REVIEW AND APPROVAL

EPO REPRESENTATIVE K.C.

DATE OF REVIEW: 11/29/95

		EXCAVATION							
DIMENSIONS		START			FINISH				
	W'	L'	D'		W'	L'	D'	CU.YDS.	
PIT 1	42'	42'	5.5'	PIT 1	42'	42'	10'	294.0	
PIT 2	15'	15'	3'	PIT 2	15'	15'	6'	27.0	
PIT 3				PIT 3					
DATE: 10/10/95		PIT 1@ 09'	PIT 2@	PIT 3@	DATE: 11/29/95		PIT 1@ 10'	PIT 2@ 06'	PIT 3@
P. I. D.	CENTER	266.0			P. I. D.	CENTER	9.6	18.9	
	NW CORNER	208.0				NW CORNER	17.3	3.3	
	NE CORNER	308.0				NE CORNER	21.3	14.3	
	SW CORNER	512.0				SW CORNER	14.6	0.0	
	SE CORNER	838.0				SE CORNER	27.9	48.9	

NOTES:

10/10/95 PIT 1 - Excavate to 10', staining and odor to 9'.

PIT 2 - Excavate to 6', no staining, slight odor.

SOIL SAMPLING

DATE: 10/10/95		PIT 1@ 09'	PIT 2@	PIT 3@	ANALYSIS RESULTS		PER LAB: ASSAIGAI	
P. I. D.	CENTER	266.0			PIT NO.	TPH	BTEX	WITNESS DATE
	NW CORNER	208.0						
	NE CORNER	308.0			1	5300.0	10.9	IF&S 10/10/95
	SW CORNER	512.0						
	SE CORNER	838.0						

RE-SAMPLE OR CELL(S) SAMPLE

DATE: 11/29/95		PIT 1@ 10'	PIT 2@ 06'	PIT 3@	ANALYSIS RESULTS		PER LAB: ASSAIGAI	
P. I. D.	CENTER	9.6	18.9		PIT NO.	TPH	BTEX	WITNESS DATE
	NW CORNER	17.3	3.3					
	NE CORNER	21.3	14.3		1	4400.0	3.2	JDT 11/29/95
	SW CORNER	14.6	0.0		2	260.0	ND	JDT 11/29/95
	SE CORNER	27.9	48.9					

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							

[illegible]

[illegible]

Lab ID: 9512029-07A
Sample ID: AP #147-H

Collected: 11/29/95 12:18:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
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: 9512029-07B
Sample ID: AP #147-H

Collected: 11/29/95 12:18:00
Matrix: SOIL

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

Lab ID: 9512029-08A
Sample ID: ~~AP #147-H~~ Pit #2

Collected: 11/29/95 12:38:00
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: 9512029-08B
Sample ID: ~~AP #147-H~~ Pit #2

Collected: 11/29/95 12:38:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
HCS DIESEL/CAL DHS 8015M						
Diesel	ND	mg/Kg	5.0	25	12/07/95	SLFTD053
HCS DSL XT/CAL DHS 8015M	12/05/95	N/A				

Lab ID: 9512029-09A
Sample ID: ~~AP #147-H~~ Pit #1

Collected: 11/29/95 12:50:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
X/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

Lab ID: 9512029-09A

Sample ID: AP [REDACTED] Pit #1

Collected: 11/29/95 12:50:00

Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A O-Xylene	[REDACTED]	mg/Kg	0.0010	500	12/05/95	SBTXME092

Lab ID: 9512029-09B

Sample ID: AP [REDACTED] Pit #1

Collected: 11/29/95 12:50:00

Matrix: SOIL

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

Lab ID: 9512029-10A

Sample ID: AP #105

Collected: 11/29/95 13:13:00

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	0.63	mg/Kg	0.0010	500	12/05/95	SBTXME092
P-&m-Xylene	1.3	mg/Kg	0.0010	500	12/05/95	SBTXME092
O-Xylene	1.4	mg/Kg	0.0010	500	12/05/95	SBTXME092

Lab ID: 9512029-10B

Sample ID: AP #105

Collected: 11/29/95 13:13:00

Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
HCs DIESEL/CAL DHS 8015M Diesel	4600	mg/Kg	5.0	250	12/07/95	SLFTD053
HCs DSL XT/CAL DHS 8015M	12/05/95	N/A				

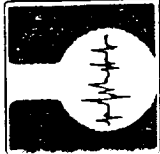
Lab ID: 9512029-11A

Sample ID: AP #146-C

Collected: 11/29/95 13:32:00

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



Chain of Custody Record

A. SAIGAL
ANALYTICAL
LABORATORIES

Client Apache Corporation

Address 304 N. Bearend

City/State/Zip Farmington N.M.

Project Name / Number Site Remediation

Contract / Purchase Order / Quote _____

Project Manager / Contact John Taylor

Telephone No. (505) 325-0318

Fax No. (505) 325-0325

Samplers: (Signature) [Signature]

1300 JEFFERSON, N.E.
ALBUQUERQUE, NEW MEXICO 87106
(505) 345-8964

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

MELOQUIADES ALANIS

6411 LOCAL UNO
CIUDAD JUAREZ, CHIHUAHUA MEXICO 32320

Analysis Required	Remarks
Asbestos	
Lead	
PCB	
Mercury	
Chlorine	
Fluorine	
Iron	
Copper	
Zinc	
Aluminum	
Sulfur	
Phosphorus	
Carbon	
Nitrogen	
Oxygen	
Hydrogen	
Silicon	
Magnesium	
Potassium	
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Tungsten	
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Osmium	
Iridium	

GENERAL DRAINAGE

NORTH

APACHE
APACHE NUMBER 112 Lease # JAT 129
NE/4 NW/4 (C)
SECTION 24, TOWNSHIP 24N RANGE 4W
RIO ARriba COUNTY, NM

Revised 6/1/97 MG

TANK FIRE WALL IS 3' WIDE AT THE BASE, 1' WIDE AT THE TOP, AND 2' HIGH

EPNG LINE DRIP

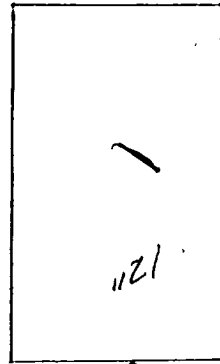


4' X 40' EPNG METER RUN

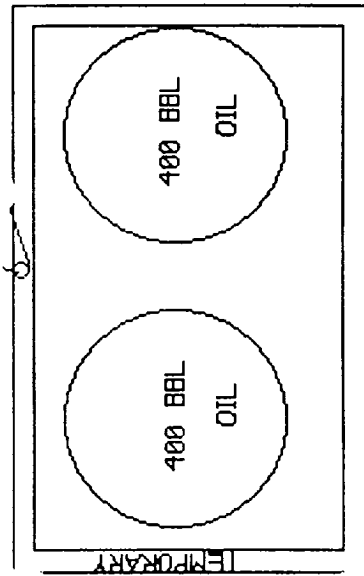
APACHE
15000
NW/4

WELL HEAD

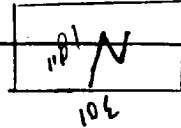
PUMP JACK



S SEPARATOR



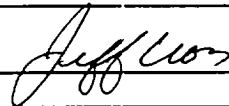
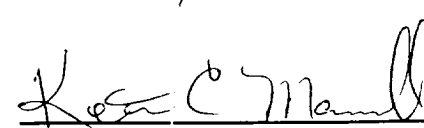
PIT(1)
400, 500
CONCRETE



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>2855 SOUTHSIDE RIVER ROAD/SUITE A / FARMINGTON , N.M. 87401-7947</u>			
Facility or Well Name: <u>APACHE # 112 CELL # 1</u>			
Location: Unit or Qtr/Qtr Sec <u>C</u>		Sec 24 T 24N R 4W County <u>RIO ARRIBA</u>	
Land Type <u>JIC. TRIBAL</u>			
Date Remediation Started: <u>10/10/95</u>		Date Completed: <u>5/14/98</u>	
Remediation Method: Landfarmed <u>XXX</u>		Approx. cubic yards <u>250</u>	
Composted <u> </u>			
Other <u> </u>			
Depth to Groundwater: (pts) <u>0</u>		Final Closure Sampling Sampling Date: <u>5/14/98</u> Time: <u>2:45PM</u> Sample Results: Field Headspace (ppm) <u>ND</u> TPH (ppm) <u>1800</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></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></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
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>2855 SOUTHSIDE RIVER ROAD/SUITE A / FARMINGTON , N.M. 87401-7947</u>			
Facility or Well Name: <u>APACHE # 112 CELL # 2</u>			
Location:	Unit or Qtr/Qtr	Sec <u>C</u>	Sec 24 T 24N R 4W County <u>RIO ARRIBA</u>
Land Type <u>JIC. TRIBAL</u>			
Date Remediation Started: <u>10/10/95</u>		Date Completed: <u>5/14/98</u>	
Remediation Method:	Landfarmed	<u>XXX</u>	Approx. cubic yards <u>71</u>
	Composted	<u> </u>	
	Other	<u> </u>	
Depth to Groundwater: (pts) <u>0</u>		Final Closure Sampling Sampling Date: <u>5/14/98</u> Time: <u>2:50PM</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 <u> </u> (REASON) <u> </u>			
SIGNED: <u>Kurt Mamm</u>		DATE: <u>6-2-98</u>	

APACHE CORPORATION/FARMINGTON DISTRICT SOIL REMEDIATIONS STATUS REPORT

REMEDIATION SITE APACHE # 112

* AMOUNT OF SOIL UNDERGOING REMEDIATION 321 Yds.

CELL No. <u>1</u>	SampDATE 5/14/98	TPH 1800	BTEX ND
DIMENSIONS(LxWxH) <u>100' X 85' X 12"</u>			
CELL LOCATION (dir. from well head) <u>WEST</u>			
* DATE BEGAN: <u>10/10/95</u>			
DATE TERMINATED (TPH <5,000 ppm/BTEX< 50 ppm/Benzene < 10 ppm) <u>5/14/98</u>			
CELL No. <u>2</u>	SampDATE 5/14/98	TPH ND	BTEX ND
DIMENSIONS(LxWxH) <u>30' X 30' X 12"</u>			
CELL LOCATION (dir. from well head) <u>SOUTH WEST</u>			
* DATE BEGAN: <u>10/10/95</u>			
DATE TERMINATED (TPH <5,000 ppm/BTEX< 50 ppm/Benzene < 10 ppm) <u>5/14/98</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)			
10/10/95 TREAT SOIL WITH 28-4-4 FERTILIZER, WATER , PLOW,AND TILL SOIL.			
6/10/97 TREAT SOIL WITH 46-0-0 FERTILIZER , PLOW AND TILL SOIL.			
6/18/97 WATER ,PLOW AND TILL SOIL.			
5/5/98 PLOW SOIL.			
5/11/98 TILL SOIL.			

From excavation reports.

WELL NAME:


Apache #112 cell #1

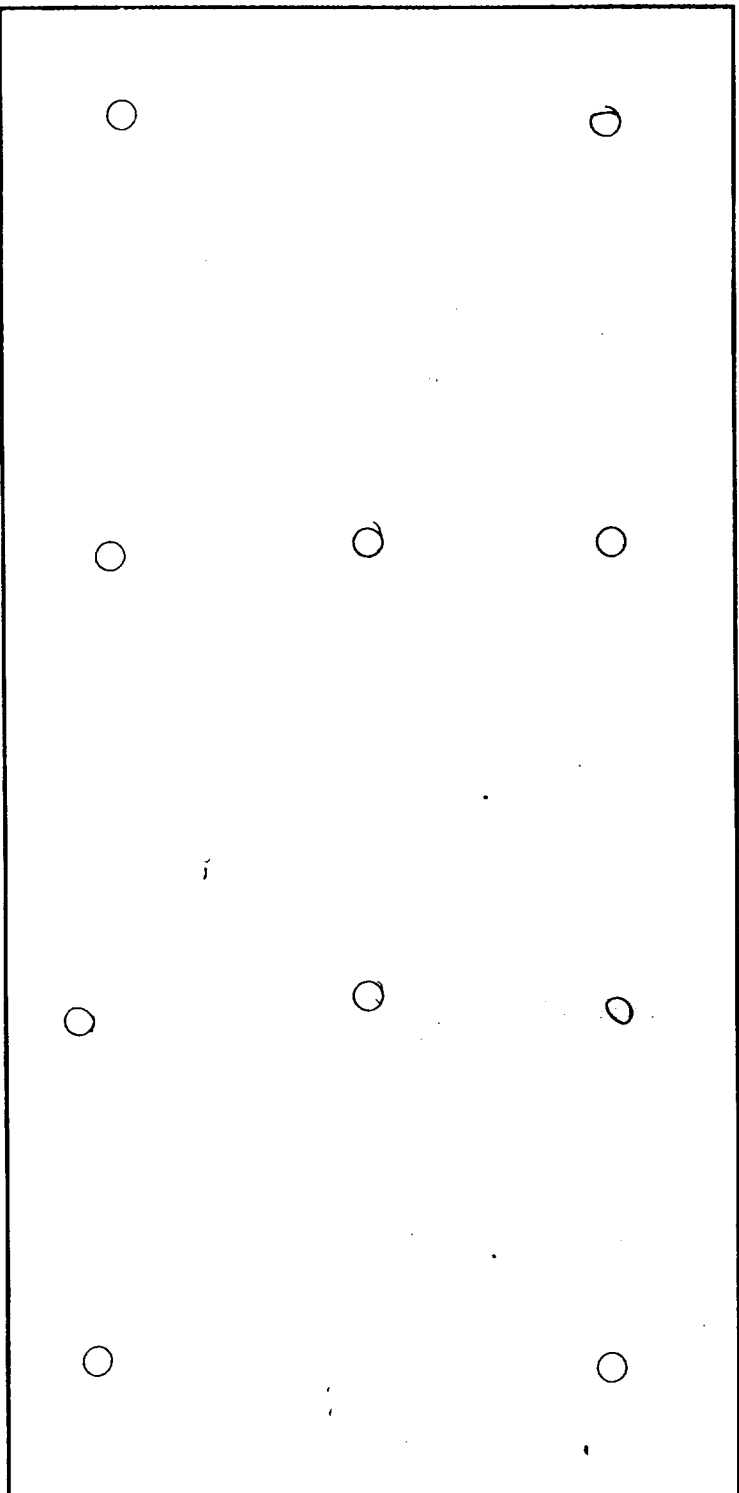
SAMPLE DATE:

5-14-98

DIMENSIONS:

100' X 85' X 12

 = SAMPLE AREA



NOTES:

ALL SAMPLES TAKEN 10" TO 12" INTO CELL.

10 point composite sample

WELL NAME:

Apache #112 Cell #2

SAMPLE DATE:

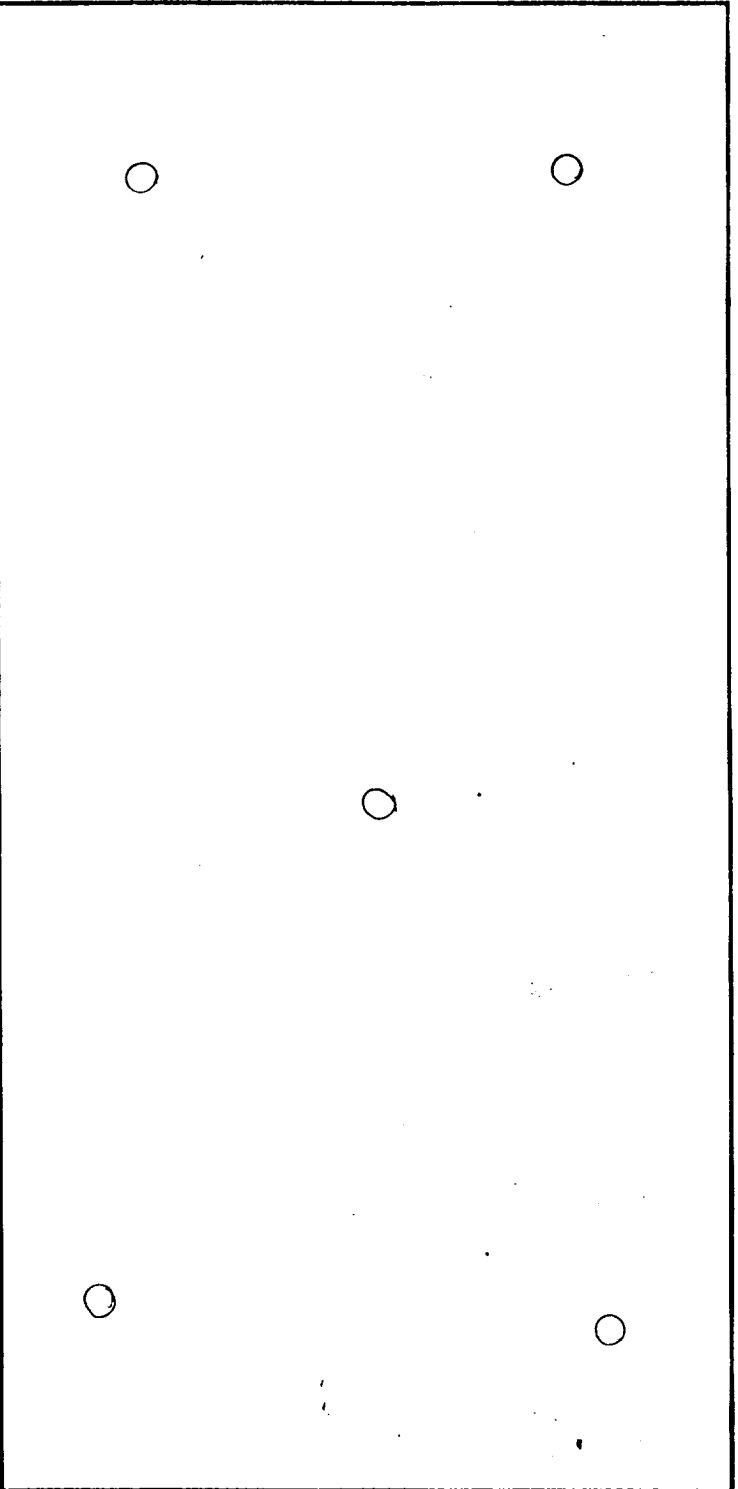
5-14-98

DIMENSIONS:

30' x 30' x 12



= SAMPLE AREA



NOTES:

ALL SAMPLES TAKEN 10" TO 12" INTO CELL.

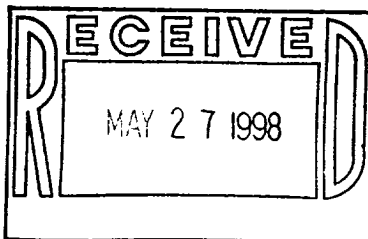
5 Point Composite Sample



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

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: **9805128 JICARILLA PIT CLOSURE**

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

Client Sample ID **APACHE #112 CELL #1** Sample Matrix **SOIL** Sample Collected **05/14/98 14:45:00**

Fraction	QC Group	CAS #	Result	Units	Dilution Factor	Detection Limit	* Sequence	Run Date
SW846-8020 Volatiles								
9805128-01A	X98267	71-43-2	Benzene	ND	mg / Kg	50	0.005	XG.1998.464-19 05/14/98
	X98267	100-41-4	Ethylbenzene	ND	mg / Kg	50	0.005	XG.1998.464-19
	X98267	95-47-6	o-Xylene	ND	mg / Kg	50	0.005	XG.1998.464-19
	X98267		p/m Xylenes	ND	mg / Kg	50	0.01	XG.1998.464-19
	X98267	108-88-3	Toluene	ND	mg / Kg	50	0.005	XG.1998.464-19
SW846-8015 Modified TPH								
9805128-01B	X98268		Diesel Range Organics	1800	mg / Kg	25	25	XG.1998.465-18 05/15/98

Client Sample ID **APACHE #112 CELL #2** Sample Matrix **SOIL** Sample Collected **05/14/98 14:50:00**

Fraction	QC Group	CAS #	Result	Units	Dilution Factor	Detection Limit	* Sequence	Run Date
SW846-8020 Volatiles								
9805128-02A	X98267	71-43-2	Benzene	ND	mg / Kg	50	0.005	XG.1998.464-20 05/14/98
	X98267	100-41-4	Ethylbenzene	ND	mg / Kg	50	0.005	XG.1998.464-20
	X98267	95-47-6	o-Xylene	ND	mg / Kg	50	0.005	XG.1998.464-20
	X98267		p/m Xylenes	ND	mg / Kg	50	0.01	XG.1998.464-20
	X98267	108-88-3	Toluene	ND	mg / Kg	50	0.005	XG.1998.464-20
SW846-8015 Modified TPH								
9805128-02B	X98268		Diesel Range Organics	ND	mg / Kg	25	25	XG.1998.465-19 05/15/98





Chain of Custody Record

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

Lab job no: 5128 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 Farmington, NM 87401-7947 Fax No. (505) 774-6624

Project Name / Number _____

Samplers: (Signature) *[Signature]*

Contract / Purchase Order / Quote _____

[illegible]

Relinquished by: Signature <u>[Signature]</u> Printed <u>J. P. Carr</u> Company <u>Mapache Corp.</u> Reason _____	Date <u>9-15-58</u> Time <u>9:30</u>	Received by: Signature <u>[Signature]</u> Printed <u>Scott Picata</u> Company <u>AAL</u> Reason _____	Relinquished by: Signature <u>[Signature]</u> Printed <u>Scott Picata</u> Company <u>AAL</u> Reason _____
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Method of shipment:

Shipment No. 1

Special Instructions:

Comments:

Date	Received by:	
	Signature	<i>Paul chelero</i>
Time	Printed	<i>Rein chelero</i>
	Company	<i>AAZ</i>
	Reason	<i>Andy 517</i>

After analysis, samples are to be:

☐ 126011990/10 p 0000010☐ Stored (30 days max)

☐ **Stored over 30 days (add)**

☐ Returned to customer

LABORATORY