

District III
1000 Rio Brazos Rd
Aztec, NM 87410
DEPUTY OIL & GAS INSPECTOR

State of New Mexico
Energy, Minerals and Natural Resources Department

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

DEC 17 1998

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

PIT REMEDIATION AND CLOSURE REPORT

RECEIVED
JUL 6 1999

Operator: Apache Corporation Telephone: 505-325-0318
Address: 2855 Southside River Road, Suite A, Farmington, NM 87401
Facility or Well Name: Apache # 149 Pit #1
Location: Unit or Qtr/Qtr Sec P Sec 1 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 48' Width 48' Depth 6'
Pit Location: Ending Pit Dimensions: Length 48' Width 48' Depth 9'
(Attach diagram)
Reference: Wellhead XXX Other: _____
Footage from reference: 150'
Direction from reference: 250 Degrees _____ East _____ North
_____ XX West _____ South X

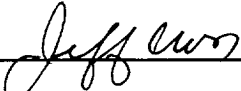
Depth To Groundwater:
(vertical distance from
contaminants to seasonal
high water elevation of
groundwater)
Less than 50 feet (20 points) _____
50 feet to 99 feet (10 points) _____
Greater than 100 feet (0 points) 0

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>11/6/95</u>	Date Completed:		<u>11/30/95</u>
Remediation Method: (Check all appropriate sections)		Excavation <u>XXX</u>	Approx. cubic yards		<u>256</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 9', 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>9'</u>	<u>8 to 10" into pit sidewalls 10" into pit bottom</u>			
	Sample Date	<u>11/30/95</u>	Sample Time	<u>2:00 P.M.</u>	
	Sample results				
	Benzene	(ppm)	<u>ND</u>		
	Total BTEX	(ppm)	<u>ND</u>		
	Field Headspace	(ppm)	<u>26.94</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			AND TITLE		<u>Project Manager</u>

District III
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Aztec, NM 87410

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Energy, Minerals and Natural Resources Department

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

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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 # 149 Pit #2

Location: Unit or Qtr/Qtr Sec P Sec 1 T 24 N R 4W County Rio Arriba

Pit Type: Separator: _____ Dehydrator _____ Other Line Drip

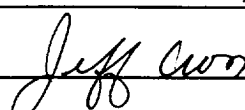
Land Type: Jicarilla Tribal

Beginning Pit Dimensions:	Length	<u>24'</u>	Width	<u>24'</u>	Depth	<u>3'</u>
Pit Location: Ending Pit Dimensions:	Length	<u>24'</u>	Width	<u>24'</u>	Depth	<u>7'</u>
(Attach diagram)	Reference:	Wellhead	<u>XXX</u>	Other	_____	
	Footage from reference:	<u>75'</u>				
	Direction from reference:	<u>10</u>	Degrees	<u>X</u>	East	North <u>XX</u>
					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)	<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>11/6/95</u>	Date Completed:		<u>11/30/95</u>
Remediation Method: (Check all appropriate sections)		Excavation <u>XXX</u>	Approx. cubic yards		<u>62</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 7', 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>7'</u>	<u>8 to 10" into pit sidewalls 10" into pit bottom</u>		
	Sample Date	<u>11/30/95</u>	Sample Time	<u>2:12 P.M.</u>	
	Sample results				
	Benzene	(ppm)	<u>ND</u>		
	Total BTEX	(ppm)	<u>ND</u>		
	Field Headspace	(ppm)	<u>20.96</u>		
	TPH		<u>62</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>

**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 # 149 PIT # 1</u>			
Location:	Unit or Qtr/Qtr	Sec <u>P</u>	SEC 1 T 24N R 4W County <u>RIO ARRIBA</u>
Pit Type:	Separator: <u> </u>	Dehydrator <u> </u>	Other <u>TANK DRAINBLOW PIT</u>
Land Type: <u>JIC. TRIBAL</u>			
Pit Location: (Attach diagram)			
Pit Dimensions:	Length <u>48'</u>	Width <u>48'</u>	Depth <u>9'</u>
Reference:	Wellhead <u>XXX</u>	Other <u> </u>	
Footage from reference:	<u>150'</u>		
Direction from reference:	<u>250</u> Degrees	<u> </u> East	North <u> </u>
		<u>XX</u> West	of South <u>X</u>
Depth To Groundwater:			
(vertical distance from	Less than 50 feet	(20 points)	<u> </u>
contaminants to seasonal	50 feet to 99 feet	(10 points)	<u> </u>
high water elevation of	Greater than 100 feet	(0 points)	<u>0</u>
groundwater)			
Distance to an Ephemeral Stream:			
(Downgradient dry wash greater than	Less than 100 feet	(10 points)	<u> </u>
ten feet in width	Greater than 100 feet	(0 points)	<u>0</u>
Distance to Nearest Lake, Playa, or Watering Pond:			
(Downgradient lakes, playas and	Less than 100 feet	(10 points)	<u> </u>
livestock or wildlife watering ponds)	Greater than 100 feet	(0 points)	<u>0</u>
Wellhead Protection Area:			
(Less than 200 feet from a private	Yes	(20 points)	<u> </u>
domestic water source, or less than	No	(0 points)	<u>0</u>
1000 feet from all other water sources)			
Distance To Surface Water:			
(Horizontal distance to perennial	Less than 100 feet	(20 points)	<u> </u>
lakes, ponds, rivers, streams, creeks,	100 feet to 1000 feet	(10 points)	<u> </u>
irrigation canals and ditches)	Greater than 1000 feet	(0 points)	<u>0</u>
RANKING SCORE (TOTAL POINTS)			<u>0</u>

Date Remediation Started: <u>11/6/95</u>		Date Completed: <u>11/30/95</u>	
Remediation Method: (Check all appropriate sections)	Excavation	<u>XXX</u>	Approx. cubic yards <u>256</u>
	Landfarmed	<u>XX</u>	In situ 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 9', took PID readings. spread soil on location for remediation. Took soil samples. Back filled pit 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>9' 8" to 10" into pit side walls, 10" into pit bottom.</u>	
Sample Date		<u>11/30/95</u>	Sample Time <u>2:00 pm.</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>26.94</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>5/27/98</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 Mammall</u>		DATE: <u>6-2-98</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>2855 SOUTHSIDE RIVER ROAD / SUITE A / FARMINGTON N.M. 87401-7947</u>			
Facility or Well Name: <u>APACHE # 149 PIT # 2</u>			
Location:	Unit or Qtr/Qtr	Sec	County
	<u>P</u>	<u>SEC 1</u>	<u>T 24N R 4W</u> <u>RIO ARRIBA</u>
Pit Type:	Separator: <u> </u>	Dehydrator <u> </u>	Other <u>LINE DRIP</u>
Land Type: <u>JIC. TRIBAL</u>			
Pit Location: (Attach diagram)			
Pit Dimensions:	Length <u>24'</u>	Width <u>24'</u>	Depth <u>7'</u>
Reference:	Wellhead <u>XXX</u>	Other <u> </u>	
Footage from reference:	<u>75'</u>		
Direction from reference:	<u>10</u> Degrees	<u>X</u> East	North <u>XX</u>
		<u> </u> West	of South <u> </u>
Depth To Groundwater:			
(vertical distance from	Less than 50 feet	(20 points)	<u> </u>
contaminants to seasonal	50 feet to 99 feet	(10 points)	<u> </u>
high water elevation of	Greater than 100 feet	(0 points)	<u>0</u>
groundwater)			
Distance to an Ephemeral Stream:			
(Downgradient dry wash greater than	Less than 100 feet	(10 points)	<u> </u>
ten feet in width	Greater than 100 feet	(0 points)	<u>0</u>
Distance to Nearest Lake, Playa, or Watering Pond:			
(Downgradient lakes, playas and	Less than 100 feet	(10 points)	<u> </u>
livestock or wildlife watering ponds)	Greater than 100 feet	(0 points)	<u>0</u>
Wellhead Protection Area:			
(Less than 200 feet from a private	Yes	(20 points)	<u> </u>
domestic water source, or less than	No	(0 points)	<u>0</u>
1000 feet from all other water sources)			
Distance To Surface Water:			
(Horizontal distance to perennial	Less than 100 feet	(20 points)	<u> </u>
lakes, ponds, rivers, streams, creeks,	100 feet to 1000 feet	(10 points)	<u> </u>
irrigation canals and ditches)	Greater than 1000 feet	(0 points)	<u>0</u>
RANKING SCORE (TOTAL POINTS)			<u>0</u>

Date Remediation Started:		<u>11/6/95</u>		Date Completed:		<u>11/30/95</u>	
Remediation Method: (Check all appropriate sections)		Excavation <u>XXX</u>		Approx. cubic yards		<u>62</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 7', took PID readings. spread soil on location for remediation. Took soil samples. Back filled pit 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>7'</u> <u>8" to 10" into pit side walls, 10" into pit bottom.</u>					
		Sample Date <u>11/30/95</u>		Sample Time <u>2:12 pm.</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>20.96</u>		Ethylbenzene	(ppb)	<u>NA</u>
	TPH	(ppm)	<u>62</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>5/27/98</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>Jeff Cross</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 149

EPO REPRESENTATIVE _____

PIT COUNT: 2

DATE OF REVIEW: _____

				EXCAVATION					
DIMENSIONS		START		FINISH					
	W	L	D		W	L	D	CU.YDS.	
PIT 1	48	48'	6'	PIT 1	48'	48'	9	256	
PIT 2	24'	24'	3'	PIT 2	24'	24'	7'	342 62	
PIT 3				PIT 3					
DATE:11/06/95		PIT1@09'	PIT2@07'	PIT3@__'	DATE:11/30/95		PIT1@09'	PIT2@07'	PIT3@__'
P. I. D.	CENTER	107.0	260.0		P. I. D.	CENTER	73.1	39.9	
	NW CORNER	87.1	221.0			NW CORNER	36.0	20.9	
	NE CORNER	78.6	143.0			NE CORNER	0.0	3.1	
	SW CORNER	78.3	257.0			SW CORNER	3.6	10.6	
	SE CORNER	98.1	241.0			SE CORNER	21.9	30.3	

NOTES:

11/06/95 – PIT 1 – Sandstone w/lt. brown staining to 8'

PIT2 – Sandstone w/no staining and slight odor.

SOIL SAMPLING

DATE:11/06/95		PIT1@09'	PIT2@07'	PIT3@	ANALYSIS RESULTS			PER LAB:	ASSAIGAI
P. I. D.	CENTER	107.0	260.0		PIT	TPH	BETEX	WITNESS	DATE
	NW CORNER	87.1	221.0		NO.				
	NE CORNER	78.6	143.0	1	ND	ND	IF&S	11/06/95	
	SW CORNER	78.3	257.0	2	ND	0.330	IF&S	11/06/95	
	SE CORNER	98.1	241.0	3					

RE-SAMPLE OR CELL(S) SAMPLE

DATE:11/30/95		PIT1@ 09'	PIT2@07'	PIT3@	ANALYSIS RESULTS			PER LAB:	ASSAIGAI
P. I. D.	CENTER	73.1	39.9		PIT	TPH	BETEX	WITNESS	DATE
	NW CORNER	36.1	20.9		NO.				
	NE CORNER	0.0	3.1	1	ND	ND	JDT	11/30/95	
	SW CORNER	3.6	10.6	2	62.0	ND	JDT	11/30/95	
	SE CORNER	21.9	30.3	3					

RE-SAMPLE OR CELL(S) SAMPLE

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



SIDEWALL AND PIT BOTTOM CENTER

[illegible]

Lab ID: 9512029-18A

Sample ID: AP #149-H pit #1

Collected: 11/30/95 14:00:00

Matrix: SOIL

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

Lab ID: 9512029-18B

Sample ID: AP #149-H pit #1

Collected: 11/30/95 14:00:00

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: 9512029-19A

Sample ID: AP #149-C pit #2

Collected: 11/30/95 14:12:00

Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/Kg	0.0010	500	12/06/95	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: 9512029-19B

Sample ID: AP #149-C pit #2

Collected: 11/30/95 14:12:00

Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
HCs DIESEL/CAL DHS 8015M Diesel	62B	mg/Kg	5.0	5.0	12/07/95	SLFTD054
HCs DSL XT/CAL DHS 8015M	12/06/95	N/A				

Lab ID: 9512029-20A

Sample ID: AP #117

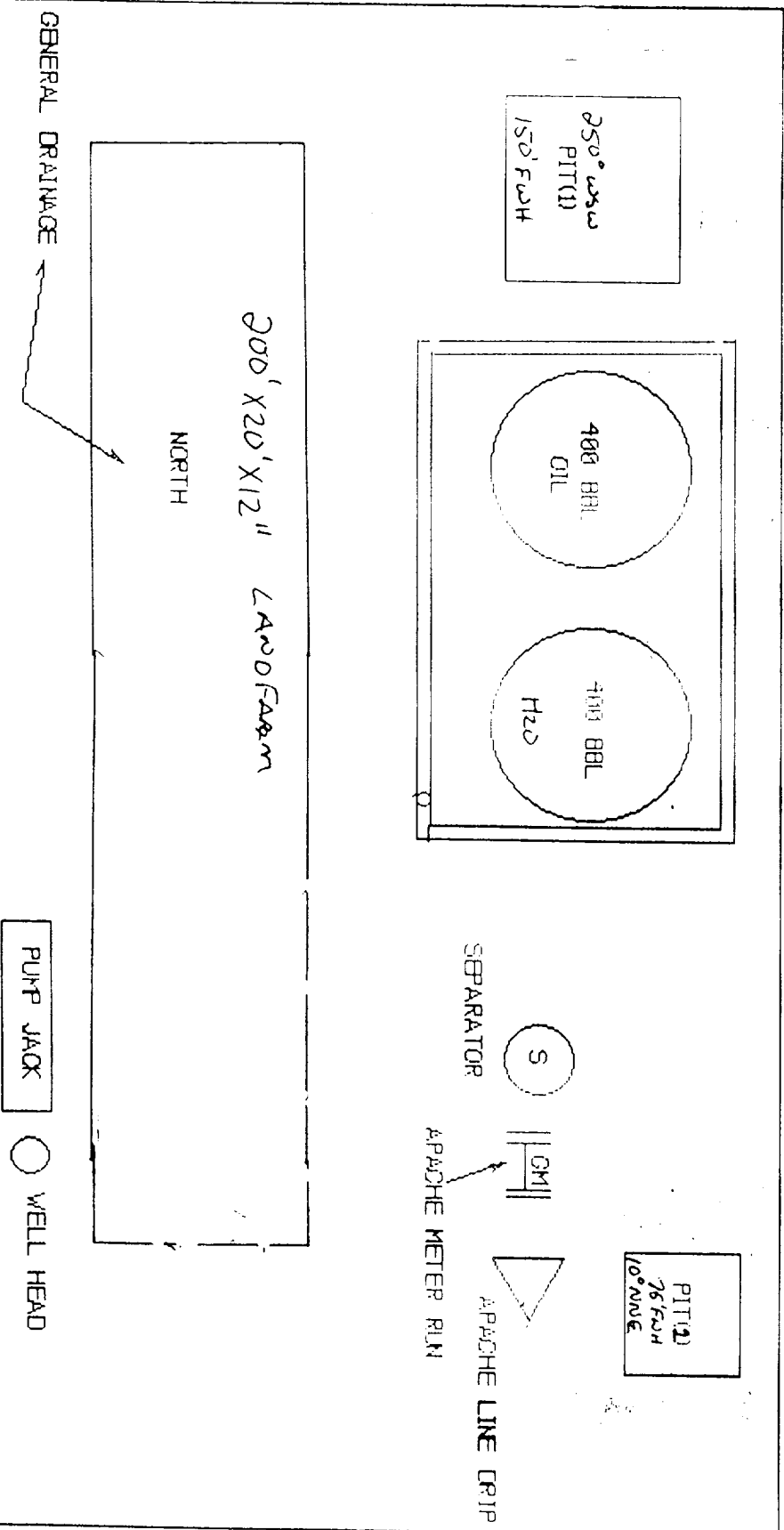
Collected: 11/30/95 14:35:00

Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/Kg	0.0010	500	12/06/95	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	1.4	mg/Kg	0.0010	500	12/06/95	SBTXME093
O-Xylene	0.54	mg/Kg	0.0010	500	12/06/95	SBTXME093

APACHE
 APACHE NUMBER 149 Lease # JAT 126
 SE/4 SE/4 (P)
 SECTION 1, TOWNSHIP 24N, RANGE 4W
 RIO ARriba COUNTY, NM

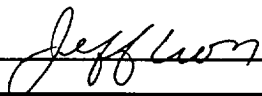
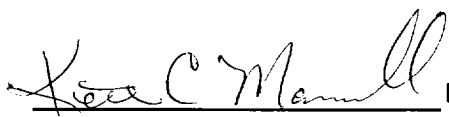
Revised 8/1/97 MG



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 # 149</u>	
Location: Unit or Qtr/Qtr Sec <u>P</u> Sec <u>1</u> T <u>24N</u> R <u>4W</u> County <u>RIO ARRIBA</u>	
Land Type <u>JIC. TRIBAL</u>	
Date Remediation Started: <u>11/6/95</u> Date Completed: <u>5/12/98</u>	
Remediation Method: Landfarmed <u>XXX</u> Approx. cubic yards <u>318</u>	
Composted _____	
Other _____	
Depth to Groundwater: (pts) <u>0</u>	Final Closure Sampling Sampling Date: <u>5/12/98</u> Time: <u>3:00PM</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>5/27/98</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 _____ (REASON) _____	
SIGNED: <u></u> DATE: <u>6-2-98</u>	

APACHE CORPORATION/FARMINGTON DISTRICT SOIL REMEDIATIONS STATUS REPORT

REMEDATION SITE APACHE # 149

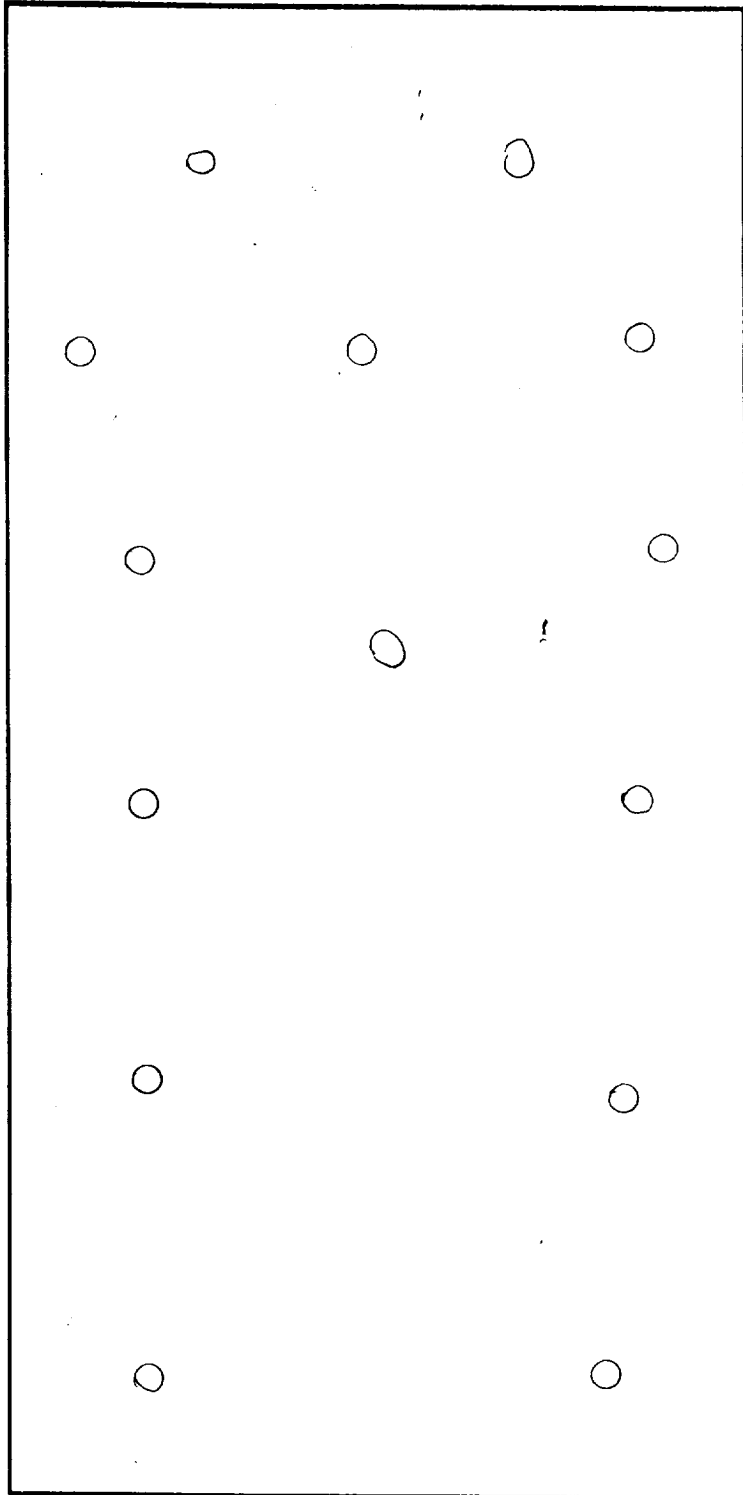
* AMOUNT OF SOIL UNDERGOING REMEDIATION 318 Yds.

CELL No. <u>1</u>	SampDATE 5/12/98	TPH ND	BTEX ND
DIMENSIONS(LxWxH) <u>200' X 20' X 12"</u>			
CELL LOCATION (dir. from well head) <u>NW</u>			
* DATE BEGAN: <u>11/6/95</u>			
DATE TERMINATED (TPH <5,000 ppm/BTEX< 50 ppm/Benzene < 10 ppm) <u>5/12/98</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)			
11/6/95 TREAT SOIL WITH 28-4-4 FERTILIZER,WATER,PLOW,TILL SOIL.			
5/7/97 TREAT SOIL WITH 46-0-0 FERTILIZER,WATER,PLOW AND TILL SOIL.			
6/11/97 TILL SOIL.			
7/16/97 WATER AND TILL SOIL.			
8/20/97 TREAT SOIL WITH 40LBS PHOSPHORUS, 19LBS LIME, WATER,PLOW AND TILL SOIL.			
5/1/98 PLOW SOIL.			
5/10/98 TILL SOIL.			

From excavation reports.

WELL NAME: Apache #149
SAMPLE DATE: 5-12-98
DIMENSIONS: 200' x 20' x 12"

○ = SAMPLE AREA



NOTES: ALL SAMPLES TAKEN 10" TO 12" INTO CELL.
14 point composite sample



ALBUQUERQUE, NEW MEXICO 87109
(505) 345-8964

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

Contract / Purchase Order / Quote _____

Relinquished by: Signature <u>Jeff Wynn</u> Printed <u>JEFF WYNN</u> Company <u>Apache Corp.</u> Reason _____	Date <u>5-5-98</u> Time <u>9:30</u>	Received by: Signature <u>Scott Pratt</u> Printed <u>SCOTT PRATT</u> Company <u>AAL</u> Reason _____	Relinquished by: Signature <u>Scott Pratt</u> Printed <u>SCOTT</u> Company <u>An</u> Reason _____
---	--	--	---

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

Date 15 May 98	Received by: Signature <u>Rich Clure</u> Printed <u>Rich Clure</u> Company <u>AAL</u> Reason <u>Andy's</u>	
	Time 11:30	Date 15 May 98

After analysis, samples are to be:

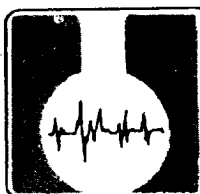
☐ Disposed of (additional fee)

☐ Stored (30 days max)

☐ Stored over 30 days (additional fee)

☐ Returned to customer

LABORATORY

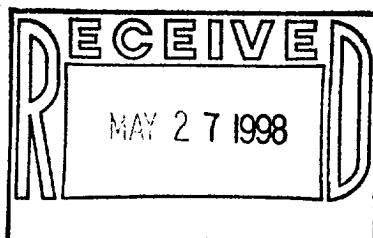


ASSAIGAI ANALYTICAL LABORATORIES, INC.

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

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

Client: APACHE CORPORATION
Project: 9805122 JICARILLA PIT CLOSURE

Client Sample ID: APACHE #149 CELL Sample Matrix: SOIL Sample Collected: 05/12/98 15:00:00

<u>Fraction</u>	<u>QC Group</u>	<u>CAS #</u>		<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>Detection Limit</u>	*	<u>Sequence</u>	<u>Run Date</u>
SW846-8020 Volatiles										
9805122-01A	X98267	71-43-2	Benzene	ND	mg / Kg	50	0.005		XG.1998.464-13	05/14/98
	X98267	100-41-4	Ethylbenzene	ND	mg / Kg	50	0.005		XG.1998.464-13	
	X98267	95-47-6	o-Xylene	ND	mg / Kg	50	0.005		XG.1998.464-13	
	X98267		p/m Xylenes	ND	mg / Kg	50	0.01		XG.1998.464-13	
	X98267	108-88-3	Toluene	ND	mg / Kg	50	0.005		XG.1998.464-13	
SW846-8015 Modified TPH										
9805122-01B	X98268		Diesel Range Organics	ND	mg / Kg	25	25		XG.1998.465-12	05/15/98

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

