

District III
DEPUTY OIL & GAS INSPECTOR
APR 10 1998

State of New Mexico
Energy, Minerals and Natural Resources Department

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

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

PIT REMEDIATION AND CLOSURE REPORT

Approved

Operator: Apache Corporation Telephone: 505-325-0318

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

Facility or Well Name: Apache # 118

Location: Unit or Qtr/Qtr Sec K Sec 12 T 24 N R 4W County Rio Arriba

Pit Type: Separator: _____ Dehydrator: _____ Other: BLOW PIT

Land Type: Jicarilla Tribal

BEGINNING DIMENSIONS

Pit Location: EUD Pit Dimensions: Length 30' Width 30' Depth 2.5'
(Attach diagram) 33' 33' 10'

Reference: Wellhead X Other: _____

Footage from reference: 150'

Direction from reference: 305 Degrees XX East of North X
West of 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)

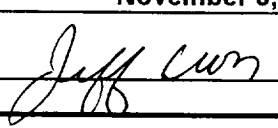
Yes	(20 points)	_____
No	(0 points)	<u>0</u>

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) 0

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

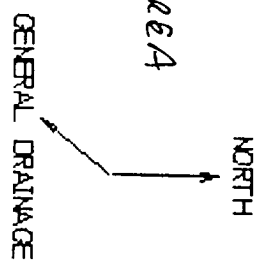
Date Remediation Started:		<u>8/22/95</u>	Date Completed:		<u>6/24/97</u>
Remediation Method: (Check all appropriate sections)		Excavatio	<u>XXX</u>	Approx. cubic yards	<u>403</u>
		Landfarmed	<u>XX</u>	Insitu Bioremediation	
		Other			
Remediation Location: (i.e. landfarmed onsite, name and location of offsite facility)		Onsite	<u>XX</u>	Offsite	
General Description of Remedial Action: <u>Excavate pit to 10', took PID readings.</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>9/15/95</u>	Sample Time	<u>3:03 P.M.</u>	
	Sample results				
	Benzene	(ppm)	<u>ND</u>		
	Total BTEX	(ppm)	<u>6.7</u>		
	Field Headspace	(ppm)	<u>4.7</u>		
	TPH		<u>450</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>

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

Operator: <u>APACHE CORPORATION</u>		Telephone <u>505-325-0318</u>	
Address: <u>304 N. BEHREND, FARMINGTON, N.M. 84701</u>			
Facility or Well Name: <u>APACHE # 118</u>			
Location:	Unit or Qtr/Qtr	Sec	<u>K SEC 12 T 24N R 4W</u> County <u>RIO ARRIBA</u>
Pit Type:	Separator: <u> </u> Dehydrator <u> </u> Other <u>BLOW PIT</u>		
Land Type: <u>JIC. TRIBAL</u>			
Pit Location: Pit Dimensions: Length <u>33'</u> Width <u>33'</u> Depth <u>10'</u> (Attach diagram)			
Reference: Wellhead <u>XXX</u> Other <u> </u>			
Footage from reference: <u>150'</u>			
Direction from reference: <u>305</u> Degrees <u> </u> East North <u>X</u> <u>XX</u> West of South <u> </u>			
Depth To Groundwater:		Less than 50 feet	(20 points) <u> </u>
(vertical distance from		50 feet to 99 feet	(10 points) <u> </u>
contaminants to seasonal		Greater than 100 feet	(0 points) <u>0</u>
high water elevation of			
groundwater)			
Distance to an Ephemeral Stream:		Less than 100 feet	(10 points) <u> </u>
(Downgradient dry wash greater than		Greater than 100 feet	(0 points) <u>0</u>
ten feet in width			
Distance to Nearest Lake, Playa, or Watering Pond:		Less than 100 feet	(10 points) <u> </u>
(Downgradient lakes, playas and		Greater than 100 feet	(0 points) <u>0</u>
livestock or wildlife watering ponds)			
Wellhead Protection Area:		Yes	(20 points) <u> </u>
(Less than 200 feet from a private		No	(0 points) <u>0</u>
domestic water source, or less than			
1000 feet from all other water sources)			
Distance To Surface Water:		Less than 100 feet	(20 points) <u> </u>
(Horizontal distance to perennial		100 feet to 1000 feet	(10 points) <u> </u>
lakes, ponds, rivers, streams, creeks,		Greater than 1000 feet	(0 points) <u>0</u>
irrigation canals and ditches)			
RANKING SCORE (TOTAL POINTS)			<u>0</u>

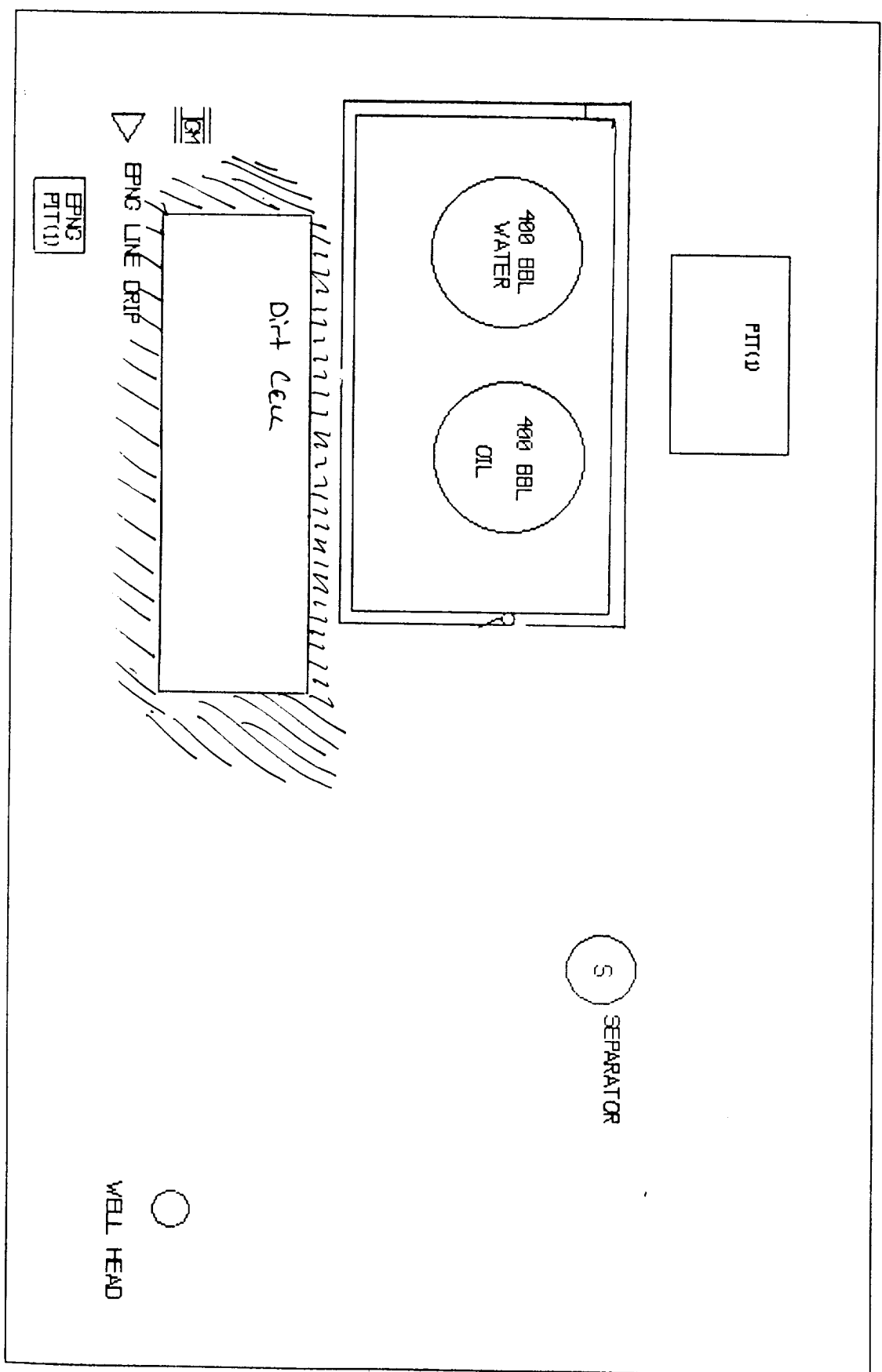
Date Remediation Started:		<u>8/22/95</u>		Date Completed:		<u>6/24/97</u>	
Remediation Method: (Check all appropriate sections)		Excavation <u>XXX</u>		Approx. cubic yards		<u>403</u>	
		Landfarmed <u>XX</u>		Insitu Bioremediation			
		Other _____					
Remediation Location: (i.e. landfarmed onsite, name and location of offsite facility)		Onsite <u>XX</u>		Offsite _____			
General Description of Remedial Action: <u>Excavate pit to 10', took PID readings. spread soil on</u>							
<u>location for remediation. Took soil samples.</u>							
Groundwater Encountered:		No <u>XXX</u>		Yes _____		Depth _____	
Final Pit:		Sample location <u>5 point composite taken from pit sidewalls and pit bottom center.</u>					
Closure Sampling: (in multiple samples, attach sample results and diagram of sample locations and depths)		Sample depth <u>8" to 10" into pit side walls, 10" into pit bottom.</u>					
Sample Date		<u>9/15/95</u>		Sample Time		<u>3:03PM</u>	
Sample results							
Soil:	Benzene	(ppm)	<u>ND</u>	Water:	Benzene	(ppb)	<u>NA</u>
	Total BTEX	(ppm)	<u>6.7</u>		Toluene	(ppb)	<u>NA</u>
	Field Headspace	(ppm)	<u>4.7</u>		Ethylbenzene	(ppb)	<u>NA</u>
	TPH	(ppm)	<u>450</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>8-22-97</u>		PRINTED NAME		<u>JEFF CROSS</u>			
SIGNATURE <u>Jeff Cross</u>		AND TITLE		<u>PROJECT MANAGER</u>			
AFTER REVIEW OF THE PIT CLOSURE INFORMATION, PIT CLOSURE IS APPROVED IN ACCORDANCE TO THE JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE.							
APPROVED:		YES <u>X</u>		NO _____		(REASON) _____	
SIGNED: <u>Kurt Mamm</u>		DATE:		<u>9-2-97</u>			

////// = Spread Area



APACHE
APACHE NUMBER 118 Lease # JAT 126
NE 1/4 SW 1/4 (K)
SECTION 12 TOWNSHIP 24N. RANGE 4W
RIO ARriba COUNTY, NM

Revised 6/1/97 MG



APACHE CORPORATION FARMINGTON DISTRICT PIT EXCAVATION AND CLOSURE REPORT

JICARILLA APACHE TRIBAL EPO
REVIEW AND APPROVAL

EPO REPRESENTATIVE K.C.
DATE OF REVIEW: 10/30/95

LOCATION: APACHE 118
PIT COUNT: 1

		EXCAVATION						
DIMENSIONS		START		FINISH				
	W'	L'	D'		W'	L'	D'	CU.YDS.
PIT 1	30'	30'	2.5'	PIT 1	33'	33'	10'	403.0
PIT 2				PIT 2				
PIT 3				PIT 3				
DATE: 08/22/95		PIT 1@ 07'	PIT 2@	PIT 3@	DATE: 08/22/95	PIT 1@ 10'	PIT 2@	PIT 3@
P. I. D.	CENTER	444.0			P. I. D.	CENTER	58.0	
	NW CORNER	17.9				NW CORNER	34.0	
	NE CORNER	374.0				NE CORNER	217.0	
	SW CORNER	426.0				SW CORNER	337.0	
	SE CORNER	125.0				SE CORNER	124.0	

NOTES:

08/22/95 Excavate to 10', staining and odor to 7'.

*High TPH & BTEX levels from 08/22 sampling @ 7'.

SOIL SAMPLING

DATE: 08/22/95		PIT 1@ 07'	PIT 2@	PIT 3@	ANALYSIS RESULTS		PER LAB:		
P. I. D.	CENTER	444.0			PIT	TPH	BTEX	WITNESS	DATE
	NW CORNER	17.9			NO.				
	NE CORNER	374.0			1	14000.0	60.2	IF&S	08/22/95
	SW CORNER	426.0							
	SE CORNER	125.0							

RE-SAMPLE OR CELL(S) SAMPLE

DATE: 09/15/95		PIT 1@ 10'	PIT 2@	PIT 3@	ANALYSIS RESULTS		PER LAB:		ASSAIGAI
P. I. D.	CENTER	2.0			PIT NO.	TPH	BTEX	WITNESS	DATE
	NW CORNER	1.3			1	450.0	6.7	JDT	09/15/95
	NE CORNER	16.5							
	SW CORNER	2.1							
	SE CORNER	1.6							

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								

TPH & BTEX ANALYSIS

Notes:

PID READINGS						Pit Number: 118	
Date	Pit No.	Interval (Depth)	Location	Reading (ppm)	Notes:		
08/22/95	1	7'	Center	444	Starting Depth: 2.5'. Top 3' pudding like. Took PID reading at		
08/22/95	1	7'	N.W. Corner	17.9	7' then took the 5 part composite. Excavated down to 10' took		
08/22/95	1	7'	N.E. Corner	374	PID readings.		
08/22/95	1	7'	S.E. Corner	426			
08/22/95	1	7'	S.W. Corner	125			
08/22/95	1	10'	Center	58			
08/22/95	1	10'	N.W. Corner	34			
08/22/95	1	10'	N.E. Corner	217			
08/22/95	1	10'	S.E. Corner	337			
08/22/95	1	10'	S.W. Corner	124			
09/15/95	1	10'	Center	2.0	PID readings of samples before sending to lab.		
09/15/95	1	10'	N.W. Corner	1.3			
09/15/95	1	10'	N.E. Corner	16.5			
09/15/95	1	10'	S.E. Corner	2.1			
09/15/95	1	10'	S.W. Corner	1.6			

Lab ID: 9509143-14A
Sample ID: AP# 116

Collected: 09/15/95 14:46:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/Kg	0.0010	5.0	09/22/95	SBTXME076
Toluene	ND	mg/Kg	0.0010	5.0	09/22/95	SBTXME076
Ethylbenzene	ND	mg/Kg	0.0010	5.0	09/22/95	SBTXME076
P-&m-Xylene	ND	mg/Kg	0.0010	5.0	09/22/95	SBTXME076
O-Xylene	ND	mg/Kg	0.0010	5.0	09/22/95	SBTXME076

Lab ID: 9509143-14B
Sample ID: AP# 116

Collected: 09/15/95 14:46:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
HCs DIESEL/CAL DHS 8015M						
Diesel	220	mg/Kg	5.0	20	09/26/95	SLFTD45
HCs DSL XT/CAL DHS 8015M	09/20/95	N/A				

Lab ID: 9509143-15A
Sample ID: AP# 118

Collected: 09/15/95 15:03:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/Kg	0.0010	500	09/26/95	SBTXME078
Toluene	ND	mg/Kg	0.0010	500	09/26/95	SBTXME078
Ethylbenzene	0.81	mg/Kg	0.0010	500	09/26/95	SBTXME078
P-&m-Xylene	4.7	mg/Kg	0.0010	500	09/26/95	SBTXME078
O-Xylene	1.2	mg/Kg	0.0010	500	09/26/95	SBTXME078

Lab ID: 9509143-15B
Sample ID: AP# 118

Collected: 09/15/95 15:03:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
HCs DIESEL/CAL DHS 8015M						
Diesel	450	mg/Kg	5.0	20	09/26/95	SLFTD45
HCs DSL XT/CAL DHS 8015M	09/20/95	N/A				

Lab ID: 9509143-16A
Sample ID: AP# 138

Collected: 09/15/95 15:31:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/Kg	0.0010	5.0	09/22/95	SBTXME076
Toluene	ND	mg/Kg	0.0010	5.0	09/22/95	SBTXME076

Lab ID: 9508243-06B
Sample ID: PIT #138-S

Collected: 08/21/95 15:30:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A O-Xylene	23	mg/Kg	0.0010	10000	09/01/95	SBTXME072

Lab ID: 9508243-07A
Sample ID: PIT #118

Collected: 08/22/95 13:15:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
HCS DIESEL/CAL DHS 8015M Diesel	14000E	mg/Kg	5.0	50	09/07/95	SLFTD-041
HCS DSL XT/CAL DHS 8015M	08/30/95	N/A				

Lab ID: 9508243-07B
Sample ID: PIT #118

Collected: 08/22/95 13:15:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/Kg	0.0010	5000	08/31/95	SBTXME071
Toluene	13	mg/Kg	0.0010	5000	08/31/95	SBTXME071
Ethylbenzene	8.0	mg/Kg	0.0010	5000	08/31/95	SBTXME071
P-&m-Xylene	30	mg/Kg	0.0020	5000	08/31/95	SBTXME071
O-Xylene	9.2	mg/Kg	0.0010	5000	08/31/95	SBTXME071

Lab ID: 9508243-08A
Sample ID: PIT #151-S

Collected: 08/24/95 09:00:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
HCS DIESEL/CAL DHS 8015M Diesel	9800E	mg/Kg	5.0	100	09/07/95	SLFTD-041
HCS DSL XT/CAL DHS 8015M	08/30/95	N/A				

Lab ID: 9508243-08B
Sample ID: PIT #151-S

Collected: 08/24/95 09:00:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/Kg	0.0010	10000	09/01/95	SBTXME072
Toluene	19	mg/Kg	0.0010	10000	09/01/95	SBTXME072
Ethylbenzene	ND	mg/Kg	0.0010	10000	09/01/95	SBTXME072
P-&m-Xylene	62	mg/Kg	0.0020	10000	09/01/95	SBTXME072
O-Xylene	14	mg/Kg	0.0010	10000	09/01/95	SBTXME072



Chain of Custody Record

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

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

MELQUIADES ALANIS
6411 LOCAL UNO
CIUDAD JUAREZ, CHIHUAHUA MEXICO 32320

Client Apache Corporation

Address _____

City / State / Zip _____

Project Name / Number _____

Contract / Purchase Order / Quote _____

Project Manager / Contact _____

Telephone No. _____

Fax No. _____

Samplers: (Signature) _____

Lab job no.: 7243 Date 8/24
Page 2 of 4

Analysis Required		No. of Containers	
TPH	1	1	1
BTEX	1	1	1
Asphalt	1	1	1
Heavy Metals	1	1	1
Light Metals	1	1	1
Organics	1	1	1
Trace Metals	1	1	1
Soil	1	1	1
Water	1	1	1
Air	1	1	1
Sludge	1	1	1
Bottoms	1	1	1
Residue	1	1	1
Other	1	1	1

ANALYST FRACTION NUMBER	Field Sample Number	Location	Date	Time	Sample Type	Type / Size of Container	Preservation	
							Temp.	Chemical
03A	P-1 # 17		8/25	10:35A	Soil	4 oz. Soil		N/A
03B	P-1 # 17		8/25	10:35A	Soil	4 oz. Soil		
04A	P-1 # 151-D		8/24	3:00P	Soil	4 oz. Soil		
04B	P-1 # 151-D		8/24	3:00	Soil	4 oz. Soil		
05A	P-1 # 152-D		8/21	11:30	Soil	4 oz. Soil		
05B	P-1 # 152-D		8/21	11:30	Soil	4 oz. Soil		
06A	P-1 # 138		8/21	3:30	Soil	4 oz. Soil		
06B	P-1 # 138-5		8/21	3:30	Soil	4 oz. Soil		
07A	P-1 # 118		8/22	1:15	Soil	4 oz. Soil		
07B	P-1 # 118		8/22	1:15	Soil	4 oz. Soil		
08A	P-1 # 151-5		8/24	9:00A	Soil	4 oz. Soil		
08B	P-1 # 151-5		8/24	9:00A	Soil	4 oz. Soil		

Relinquished by:		Received by:			
Signature _____	Signature _____	Signature _____	Signature _____		
Printed _____	Printed _____	Printed _____	Printed _____		
Company _____	Company _____	Company _____	Company _____		
Reason _____	Reason _____	Reason _____	Reason _____		
Date _____		Date _____			
Time _____		Time _____			
After analysis, samples are to be:					
☐ Disposed of (additional fee)					
☐ Stored (30 days max)					
☐ Stored over 30 days (additional fee)					
☐ Returned to customer					
Method of Shipment: _____		Comments: _____			
Shipment No. _____		_____			
Special Instructions: _____		_____			

COURIER

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

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

ON-SITE SOIL REMEDIATION REPORT

Operator: <u>APACHE CORPORATION</u> Telephone <u>505-325-0318</u>	
Address: <u>304 N. BEHREND, FARMINGTON, N.M. 87401</u>	
Facility or Well Name: <u>APACHE # 118</u>	
Location: Unit or Qtr/Qtr Sec <u>K</u> Sec <u>12</u> T <u>24N</u> R <u>4W</u> County <u>RIO ARRIBA</u>	
Land Type <u>JIC. TRIBAL</u>	
Date Remediation Started: <u>8/22/95</u> Date Completed: <u>6/24/97</u>	
Remediation Method: Landfarmed <u>XXX</u> Approx. cubic yards <u>403</u>	
Composted _____	
Other _____	
Depth to Groundwater: (pts) <u>0</u>	Final Closure Sampling Sampling Date: <u>6/24/97</u> Time: <u>11:30AM</u> Sample Results: Field Headspace (ppm) <u>0.6</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><i>Jeff Cross</i></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><i>Keith C. Mamm</i></u> DATE: <u>9-2-97</u>	

APACHE CORPORATION/FARMINGTON DISTRICT SOIL REMEDIATIONS STATUS REPORT

REMEDIATION SITE APACHE # 118

* AMOUNT OF SOIL UNDERGOING REMEDIATION 403 Yds.

CELL No. <u>#1</u>	SampDATE <u>6/24/97</u>	TPH <u>ND</u>	BTEX <u>ND</u>
DIMENSIONS(LxWxH) <u>105' L X 70' W X 18" H</u>			
CELL LOCATION (dir. from well head) <u>NORTHWEST</u>			
* DATE BEGAN: <u>8/22/95</u>			
DATE TERMINATED (TPH <5,000 ppm/BTEX< 50 ppm/Benzene < 10 ppm) <u>6/24/97</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)			
6/10/97 TREAT WITH 46-0-0 FERTILIZER , WATER AND TILL SOIL.			

From excavation reports.

WELL NAME:

Apache #118

SAMPLE DATE:

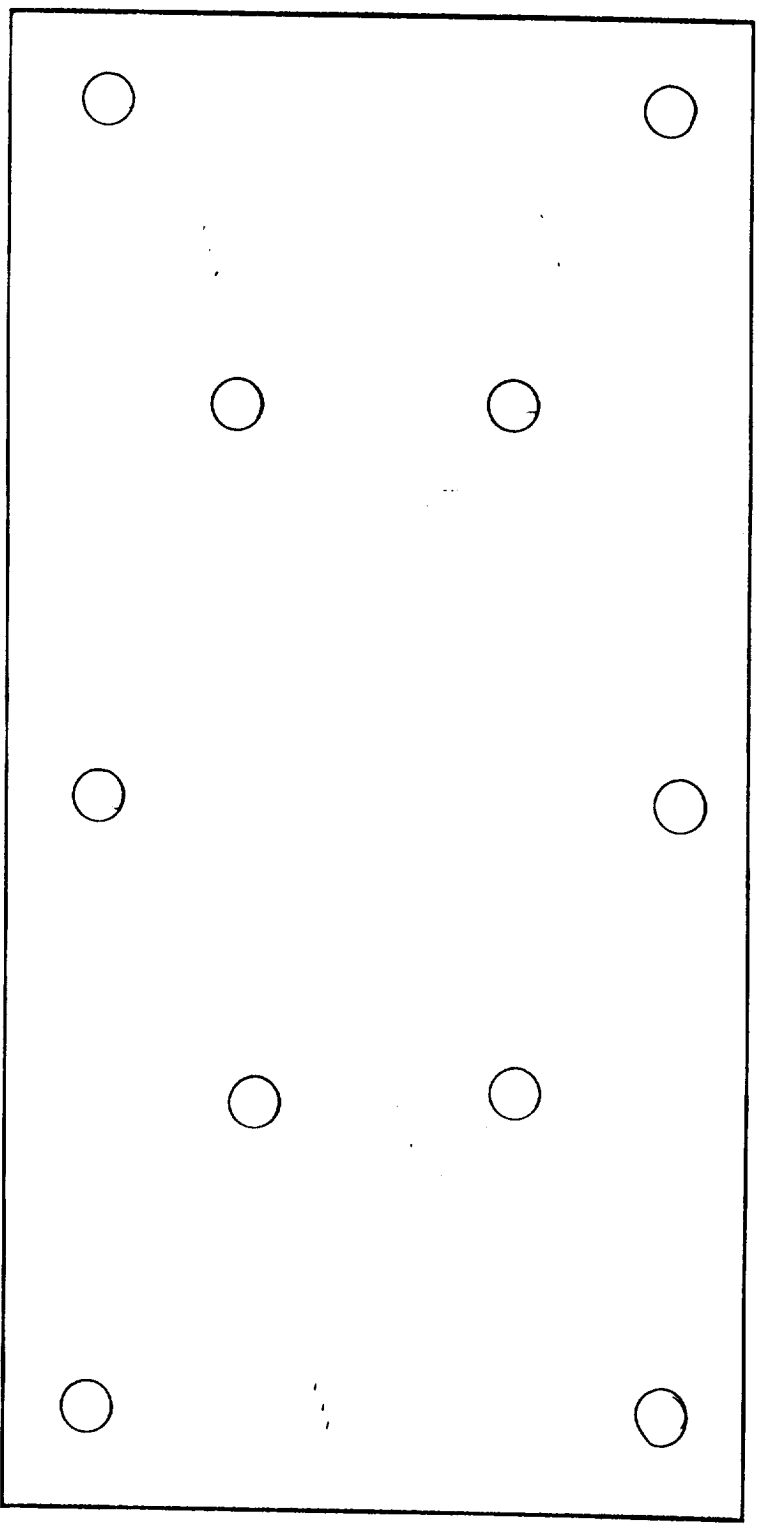
6-24-97

DIMENSIONS:

105' L X 70' W X 18" H



= SAMPLE AREA

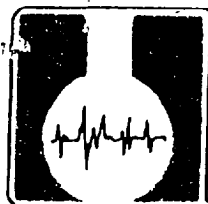


NOTES:

ALL SAMPLES TAKEN 10" TO 12" INTO CELL

10 point composite Sample

PTD composite Reading 0.6 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:
July 7, 1997 16:21

**CERTIFICATE OF ANALYSIS
RESULTS BY SAMPLE**

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

WORKORDER # : 9706283
WORK ID : JICARILLA PIT CLOSURES
CLIENT CODE : APA01
DATE RECEIVED : 06/27/97

ATTN: JEFF CROSS

Page: 1

Lab ID: 9706283-01A
Sample ID: AP #118 CELL

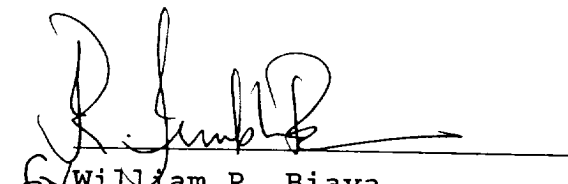
Collected: 06/24/97 11:30:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/kg	0.0050	100	06/30/97	SBTXME173
Toluene	ND	mg/kg	0.0050	100	06/30/97	SBTXME173
Ethylbenzene	ND	mg/kg	0.0050	100	06/30/97	SBTXME173
P-&m-Xylene	ND	mg/kg	0.010	100	06/30/97	SBTXME173
O-Xylene	ND	mg/kg	0.0050	100	06/30/97	SBTXME173

Lab ID: 9706283-01B
Sample ID: AP #118 CELL

Collected: 06/24/97 11:30:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
Diesel Range OG Soil/M8015 Diesel Range OG in Soil	ND	mg/Kg	50	25	06/30/97	SDRO39


for William P. Biava
President



WORKORDER COMMENTS

DATE : 07/07/97

WORKORDER:

DEFINITIONS/DATA QUALIFIERS

The following are definitions, abbreviations, and data qualifiers which may have been utilized in your report:

ND = Analyte "not detected" in analysis at the sample specific detection limit.

D_F = Sample "dilution factor"

NT = Analyte "not tested" per client request.

B = Analyte was also detected in laboratory method QC blank.

E = Analyte concentration (result) is an estimated value or exceeds analysis calibration range.

LIMIT = The minimum amount of the analyte that AAL can detect utilizing the specified analysis.

Please Note: Multiply the "Limit" value (AAL's Detection Limit) by Dilution Factor (D_F) to obtain the sample specific Detection Limit.

REPORT COMMENTS

Chain of Custody Record

Lab job no: 285 Date 12-27-97

Lab Job no.:

Date 6-6-11

Page 1 of 1

Client - Apache Corporation

Address 304 N. Behrend

City / State / Zip Farmington, NM 87401

Project Name / Number JICARILLA PIT CLOSURES

Contract / Purchase Order / Quote

Project Manager / Contact ~~Jeff Cross~~

Telephone No. (505) 774-6643

Fax No. (505) 774-6624

Samplers: (Signature)

John M. White

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

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

MELQUIADES ALANIS

6411 LOCAL UNO
CIUDAD JUAREZ, CHIHUAHUA MEXICO 32320

[illegible]

LABORATORY