

State of New Mexico
Energy, Minerals and Natural Resources Department
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

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

APR 10 1998

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 # 145 Pit # 2

Location: Unit or Qtr/Qtr Sec J 11 T 24 N R 4W County Rio Arriba

Pit Type: Separator: _____ Dehydrator: _____ Other: Blow Pit

Land Type: Jicarilla Tribal

BEGINNING DIMENSIONS.

Pit Location: EDD Pit Dimensions: Length 15' Width 15' Depth 2.5'
(Attach diagram)

Reference: Wellhead X Other _____

Footage from reference: 150'

Direction from reference: 242 Degrees _____ East _____ North _____
_____ West _____ South X

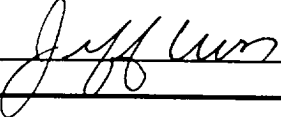
Depth To Groundwater: Less than 50 feet (20 points) _____
(vertical distance from 50 feet to 99 feet (10 points) _____
contaminants to seasonal Greater than 100 feet (0 points) 0
high water elevation of groundwater)

Wellhead Protection Area: Yes (20 points) _____
(Less than 200 feet from a private No (0 points) 0
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) 0
irrigation canals and ditches)

RANKING SCORE (TOTAL POINTS) 0

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

Date Remediation Started:		<u>8/17/95</u>	Date Completed:		<u>6/30/97</u>
Remediation Method: (Check all appropriate sections)		Excavation <u>XXX</u>	Approx. cubic yards		<u>127</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 14', took PID readings.</u>					
<u>Spread soil on location for remediation. Took soil samples.</u>					
Groundwater Encountered: No <u>X</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 sidewalls 10" into pit bottom</u>			
Sample Date		<u>9/15/97</u>	Sample Time		<u>12:46 P.M.</u>
Sample results					
Benzene	(ppm)	<u>ND</u>			
Total BTEX	(ppm)	<u>ND</u>			
Field Headspace	(ppm)	<u>1.82</u>			
TPH		<u>120</u>			
Groundwater Sample: Yes _____ 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			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 # 145</u>		<u>PIT # 2</u>	
Location:	Unit or Qtr/Qtr	Sec <u>J</u>	SEC 11 T 24N R 4W County <u>RIO ARRIBA</u>
Pit Type:	Separator: <u> </u>	Dehydrator <u> </u>	Other <u>BLOW PIT</u>
Land Type: <u>JIC. TRIBAL</u>			
Pit Location: (Attach diagram)			
Pit Dimensions:		Length <u>19'</u>	Width <u>15'</u> Depth <u>14'</u>
Reference:		Wellhead <u>XXX</u>	Other <u> </u>
Footage from reference:		<u>150'</u>	
Direction from reference:		<u>242</u> Degrees	East North <u> </u>
		<u>XX</u> West	South <u>X</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: 8/17/95 Date Completed: 6/30/97

Remediation Method: Excavation XXX Approx. cubic yards 127

(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 14', took PID readings. spread soil on

location for remediation. Took soil samples.

Groundwater Encountered: No XXX Yes _____ Depth _____

Final Pit: Sample location 5 point composite taken from pit sidewalls and pit bottom center.

Closure Sampling:

(in multiple samples, attach sample results

and diagram of sample locations and depths)

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

Sample Date 9/15/95 Sample Time 12:46PM

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>1.82</u>		Ethylbenzene	(ppb)	<u>NA</u>
	TPH	(ppm)	<u>120</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 7/25/97 PRINTED NAME JEFF CROSS

SIGNATURE _____ 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:

Jeff C. Cross

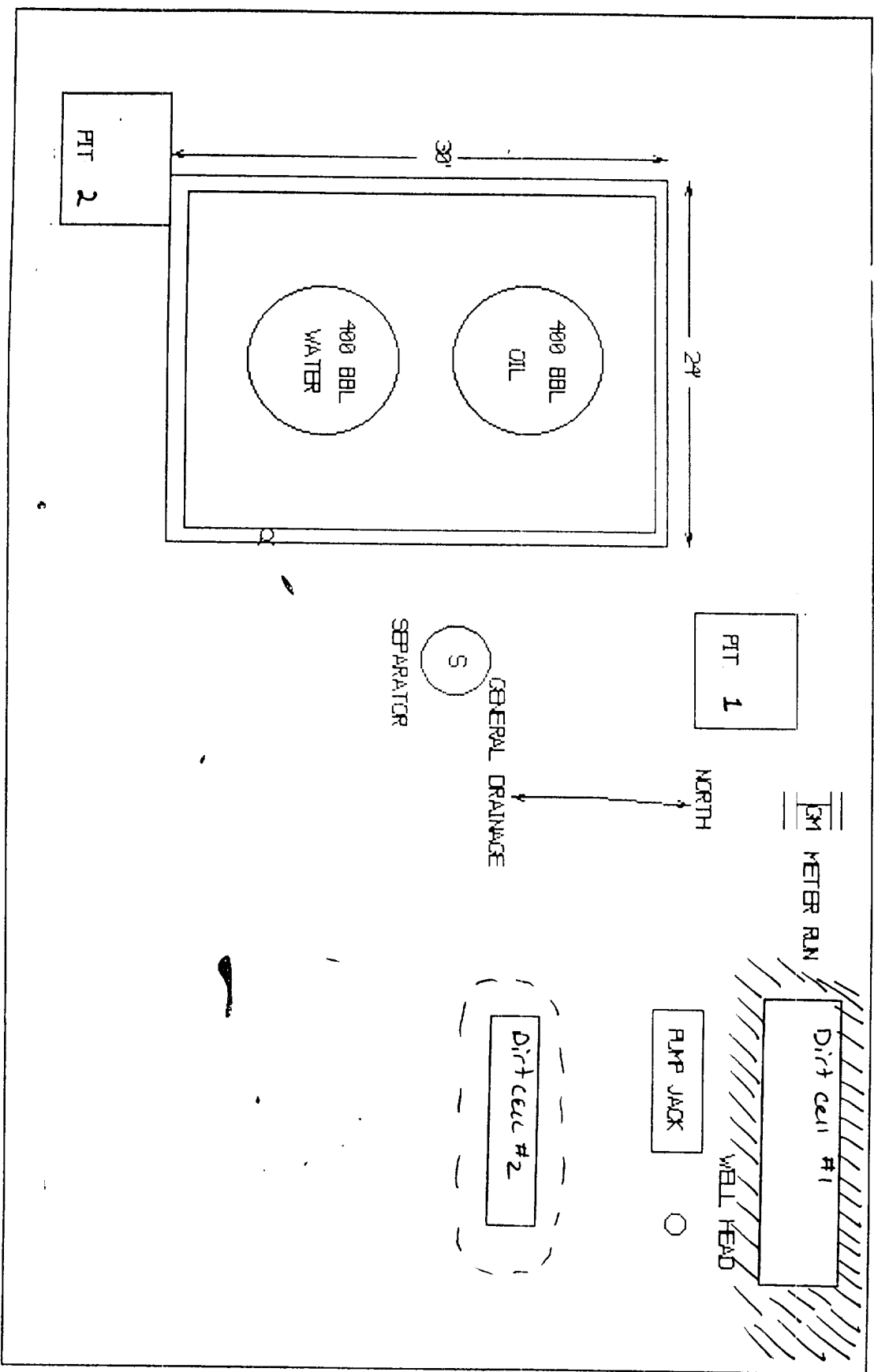
DATE:

9-2-97

SEEDED AREA

SPREAD AREA

APACHE
 APACHE NUMBER 145 Lease # JAT 126
 NW/4 SE/4 CO
 SECTION 11 TOWNSHIP 24N RANGE 4W
 RIO ARriba COUNTY, NM
 Revised 8/1/97 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 145
PIT COUNT: 2

		EXCAVATION							
DIMENSIONS		START		FINISH					
	W'	L'	D'		W'	L'	D'	CU.YDS.	
PIT 1	9'	9'	2'	PIT 1	9'	9'	14'	36.0	
PIT 2	15'	15'	2.5	PIT 2	15'	19'	14'	127.0	
PIT 3				PIT 3					
DATE: 08/25/95		PIT 1@ 08'	PIT 2@ 10'	PIT 3@	DATE: 09/15/95		PIT 1@ 14'	PIT 2@ 14'	PIT 3@
P. I. D.	CENTER	>2500	808.0		P. I. D.	CENTER	1.8	2.7	
	NW CORNER	1950.0	1005.0			NW CORNER	1.7	1.7	
	NE CORNER	270.0	368.0			NE CORNER	3.7	1.6	
	SW CORNER	1134.0	483.0			SW CORNER	4.2	1.7	
	SE CORNER	2020.0	621.0			SE CORNER	2.0	1.4	

NOTES:

08/18/95 PIT 1 - Excavate to 14', lt. staining w/strong odor @ 6'-8' interval.
PIT 2 - Excavate to 14', staining w/slight odor to 10'.

SOIL SAMPLING

DATE: 08/25/95		PIT 1@ 14'	PIT 2@ 14'	PIT 3@	ANALYSIS RESULTS			PER LAB:	ASSAIGAI
P.	CENTER	not taken	not taken		PIT	TPH	BTEX	WITNESS	DATE
	NW CORNER				NO.				
I.	NE CORNER				1	560.0	ND	IF&S	08/25/95
D.	SW CORNER				2	41.0	ND	IF&S	08/25/95
	SE CORNER								

RE-SAMPLE OR CELL(S) SAMPLE

DATE: 09/15/95		PIT 1@ 14'	PIT 2@ 14'	PIT 3@	ANALYSIS RESULTS		PER LAB:	ASSAIGAI	
P.	CENTER	1.8	2.7		PIT	TPH	BTEX	WITNESS	DATE
	NW CORNER	1.7	1.7		NO.				
I.	NE CORNER	3.7	1.6			ND	0.6	JDT	09/15/95
D.	SW CORNER	4.2	1.7			120.0	ND	JDT	09/15/95
	SE CORNER	2.0	1.4						

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								

PID READINGS						Site Number: 145	Notes:
Date	Pit No.	Interval (Depth)	Location	Reading (ppm)			
08/18/95	2	10'	Bottom, N.E. Corner	808		Southwest corner had heavy staining and strong odors	
08/18/95	2	10'	Bottom, S.E. Corner	1005			
08/18/95	2	10'	Bottom, S.W. Corner	368			
08/18/95	2	10'	Bottom, N.W. Corner	483			
08/18/95	2	10'	Bottom, Center	621			
08/18/95	1	10'	Bottom, N. Corner	>2500		Strong odor and light staining on the sides. Bottom center had strong odor.	
08/18/95	1	10'	Bottom, S. Corner	1950			
08/18/95	1	10'	Bottom, E. Corner	270			
08/18/95	1	10'	Bottom, W. Corner	1134			
08/18/95	1	10'	Bottom, Center	2020			
09/15/95	2	14'	Bottom, N.E. Corner	2.7		PID readings of samples before sending to lab.	
09/15/95	2	14'	Bottom, S.E. Corner	1.7			
09/15/95	2	14'	Bottom, S.W. Corner	1.6			
09/15/95	2	14'	Bottom, N.W. Corner	1.7			
09/15/95	2	14'	Bottom, Center	1.4			
09/15/95	1	14'	Bottom, N. Corner	1.8			
09/15/95	1	14'	Bottom, S. Corner	1.7			
09/15/95	1	14'	Bottom, E. Corner	3.7			
09/15/95	1	14'	Bottom, W. Corner	4.2			
09/15/95	1	14'	Bottom, Center	2.0			

Lab ID: 9509143-05A
Sample ID: AP# 158H

Collected: 09/15/95 11:07:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/Kg	0.0010	5.0	09/21/95	SBTXME075
Toluene	ND	mg/Kg	0.0010	5.0	09/21/95	SBTXME075
Ethylbenzene	ND	mg/Kg	0.0010	5.0	09/21/95	SBTXME075
P-&m-Xylene	ND	mg/Kg	0.0010	5.0	09/21/95	SBTXME075
O-Xylene	ND	mg/Kg	0.0010	5.0	09/21/95	SBTXME075

Lab ID: 9509143-05B
Sample ID: AP# 158H ;

Collected: 09/15/95 11:07:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
HCs DIESEL/CAL DHS 8015M						
Diesel	370	mg/Kg	5.0	20	09/22/95	SLFTD44
HCs DSL XT/CAL DHS 8015M	09/19/95	N/A				

Lab ID: 9509143-06A
Sample ID: AP#158C

Collected: 09/15/95 12:00:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/Kg	0.0010	5.0	09/21/95	SBTXME075
Toluene	ND	mg/Kg	0.0010	5.0	09/21/95	SBTXME075
Ethylbenzene	ND	mg/Kg	0.0010	5.0	09/21/95	SBTXME075
P-&m-Xylene	ND	mg/Kg	0.0010	5.0	09/21/95	SBTXME075
O-Xylene	ND	mg/Kg	0.0010	5.0	09/21/95	SBTXME075

Lab ID: 9509143-06B
Sample ID: AP#158C

Collected: 09/15/95 12:00:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
HCs DIESEL/CAL DHS 8015M						
Diesel	ND	mg/Kg	5.0	5.0	09/21/95	SLFTD44
HCs DSL XT/CAL DHS 8015M	09/19/95	N/A				

Lab ID: 9509143-07A
Sample ID: AP# 145H Pit #2

Collected: 09/15/95 12:46:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/Kg	0.0010	5.0	09/21/95	SBTXME075
Toluene	ND	mg/Kg	0.0010	5.0	09/21/95	SBTXME075

b ID: 9509143-07A
 Sample ID: AP# 145H *p1 + #2*

Collected: 09/15/95 12:46:00
 Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Ethylbenzene	ND	mg/Kg	0.0010	5.0	09/21/95	SBTXME075
P-&m-Xylene	ND	mg/Kg	0.0010	5.0	09/21/95	SBTXME075
O-Xylene	ND	mg/Kg	0.0010	5.0	09/21/95	SBTXME075

Lab ID: 9509143-07B
 Sample ID: AP# 145H *p1 + #2*

Collected: 09/15/95 12:46:00
 Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
HCs DIESEL/CAL DHS 8015M						
Diesel	120	mg/Kg	5.0	10	09/22/95	SLFTD44
HCs DSL XT/CAL DHS 8015M	09/19/95	N/A				

Lab ID: 9509143-08A
 Sample ID: AP# 145C *p1 + #1*

Collected: 09/15/95 13:05:00
 Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/Kg	0.0010	250	09/22/95	SBTXME076
Toluene	ND	mg/Kg	0.0010	250	09/22/95	SBTXME076
Ethylbenzene	ND	mg/Kg	0.0010	250	09/22/95	SBTXME076
P-&m-Xylene	ND	mg/Kg	0.0010	250	09/22/95	SBTXME076
O-Xylene	0.60	mg/Kg	0.0010	250	09/22/95	SBTXME076

Lab ID: 9509143-08B
 Sample ID: AP# 145C *p1 + #1*

Collected: 09/15/95 13:05:00
 Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
HCs DIESEL/CAL DHS 8015M						
Diesel	ND	mg/Kg	5.0	5.0	09/21/95	SLFTD44
HCs DSL XT/CAL DHS 8015M	09/19/95	N/A				

Lab ID: 9509143-09A
 Sample ID: AP# 108

Collected: 09/15/95 13:30:00
 Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/Kg	0.0010	100	09/21/95	SBTXME076
Toluene	ND	mg/Kg	0.0010	100	09/21/95	SBTXME076
Ethylbenzene	ND	mg/Kg	0.0010	100	09/21/95	SBTXME076
P-&m-Xylene	ND	mg/Kg	0.0010	100	09/21/95	SBTXME076



Chain of Custody Record

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

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

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

MELQUIADES ALANIS
6411 LOCAL UNO
CIUDAD JUAREZ, CHIHUAHUA MEXICO 32320

Lab job no.: 9143 Date: 9/1/15 Page 2 of 7

Project Manager / Contact: John Taylor
Telephone No. (505) 325-0318
Fax No. (505) 325-0325
Samplers: (Signature) [Signature]

Client: Apache Corporation
Address: 301 N. Behrend
City/State/Zip: Farmington, NM 87401
Project Name / Number: P-1 Remediation 95017
Contract / Purchase Order / Quote: [Blank]

Analysis Required: [Blank]

Remarks: [Blank]

No. of Containers: BTX TPH

Preservation Temp.: 50 Ice

Chemical: [Blank]

Sample Type: [Blank]

Type / Size of Container: Glass

Time: 12:46

Date: 9/1/15

Field Sample Number / Location: AP# 145 H

Field Sample Number / Location: AP# 145 B

Field Sample Number / Location: AP# 145 C

Field Sample Number / Location: AP# 145 C

Field Sample Number / Location: AP# 108

Field Sample Number / Location: AP# 108

Field Sample Number / Location: AP# 152 H

Field Sample Number / Location: AP# 152 H

Field Sample Number / Location: AP# 152 C

Field Sample Number / Location: AP# 152 C

Field Sample Number / Location: AP# 113

Field Sample Number / Location: AP# 113

Received by: [Signature] Date: 9/1/15

Signature: [Signature] Printed: [Signature] Company: [Signature] Reason: [Signature]

Relinquished by: [Signature] Date: 9/1/15

Signature: [Signature] Printed: [Signature] Company: [Signature] Reason: [Signature]

After analysis, samples are to be:

☐ Disposed of (additional fee)

☐ Stored (30 days max)

☐ Stored over 30 days (additional fee)

☐ Returned to customer

Comments: [Blank]

Shipment No.: [Blank]

Special Instructions: [Blank]

COURIER

Lab ID: 9508243-15B
Sample ID: PIT #158-D

Collected: 08/25/95 17:40:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
DTEX/SW846 8020A O-Xylene	ND	mg/Kg	0.0010	5.0	08/30/95	SBTXME070

Lab ID: 9508243-16A
Sample ID: PIT #158-S

Collected: 08/25/95 17:10:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
HCs DIESEL/CAL DHS 8015M Diesel	3200	mg/Kg	5.0	250	09/08/95	SLFTD-041
HCs DSL XT/CAL DHS 8015M	08/30/95	N/A				

Lab ID: 9508243-16B
Sample ID: PIT #158-S

Collected: 08/25/95 17:10:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/Kg	0.0010	2500	08/31/95	SBTXME071
Toluene	ND	mg/Kg	0.0010	2500	08/31/95	SBTXME071
Ethylbenzene	ND	mg/Kg	0.0010	2500	08/31/95	SBTXME071
P-&m-Xylene	ND	mg/Kg	0.0020	2500	08/31/95	SBTXME071
O-Xylene	ND	mg/Kg	0.0010	2500	08/31/95	SBTXME071

Lab ID: 9508243-17A
Sample ID: PIT #145-S

Collected: 08/25/95 16:15:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
HCs DIESEL/CAL DHS 8015M Diesel	560	mg/Kg	5.0	100	09/08/95	SLFTD-041
HCs DSL XT/CAL DHS 8015M	08/30/95	N/A				

Lab ID: 9508243-17B
Sample ID: PIT #145-S

Collected: 08/25/95 16:15:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/Kg	0.0010	5.0	08/30/95	SBTXME070
Toluene	ND	mg/Kg	0.0010	5.0	08/30/95	SBTXME070
Ethylbenzene	ND	mg/Kg	0.0010	5.0	08/30/95	SBTXME070
P-&m-Xylene	ND	mg/Kg	0.0020	5.0	08/30/95	SBTXME070
O-Xylene	ND	mg/Kg	0.0010	5.0	08/30/95	SBTXME070

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 # 145</u>		CELL # <u>1</u>	
Location: Unit or Qtr/Qtr	Sec <u>J</u>	Sec <u>11</u>	T <u>24N</u> R <u>4W</u> County <u>RIO ARRIBA</u>
Land Type <u>JIC. TRIBAL</u>			
Date Remediation Started: <u>8/17/95</u>		Date Completed: <u>6/30/97</u>	
Remediation Method: <u>Landfarmed</u>		<u>XXX</u>	Approx. cubic yards <u>127</u>
Composted			
Other			
Depth to Groundwater: (pts) <u>0</u>		Final Closure Sampling Sampling Date: <u>6/30/97</u> Time: <u>11:10AM</u> Sample Results: Field Headspace (ppm) <u>0</u> TPH (ppm) <u>1500</u> Method <u>M8015</u> Other <u>BTEX \ SW846, 8020A (ND)</u>	
Distance to an Ephemeral Stream: (pts) <u>0</u>			
Distance to Nearest Lake, Playa, or Watering Pond: (pts) <u>0</u>			
Wellhead Protection Area: (pts) <u>0</u>			
Distance To Surface Water: (pts) <u>0</u>			
RANKING SCORE (TOTAL POINTS) <u>0</u>			
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF			
DATE: <u>8-22-97</u>		PRINTED NAME <u>JEFF CROSS</u>	
SIGNATURE <u>Jeff Cross</u>		TITLE <u>PROJECT MANAGER</u>	
AFTER REVIEW OF THE SOIL REMEDIATION INFORMATION. ON-SITE REMEDIATION IS APPROVED IN ACCORDANCE TO THE JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE.			
APPROVED: YES <u>X</u> NO <u> </u> (REASON) <u> </u>			
SIGNED: <u>Kevin M. M...</u>		DATE: <u>8-2-97</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. 87401</u>			
Facility or Well Name: <u>APACHE # 145</u>		CELL # <u>2</u>	
Location: Unit or Qtr/Qtr Sec <u>J</u>		Sec <u>11</u> T <u>24N</u> R <u>4W</u> County <u>RIO ARRIBA</u>	
Land Type <u>JIC. TRIBAL</u>			
Date Remediation Started: <u>8/17/95</u>		Date Completed: <u>6/30/97</u>	
Remediation Method: Landfarmed <u>XXX</u>		Approx. cubic yards <u>36</u>	
Composted <u> </u>			
Other <u> </u>			
Depth to Groundwater: (pts) <u>0</u>		Final Closure Sampling Sampling Date: <u>6/30/97</u> Time: <u>11:20AM</u> Sample Results: Field Headspace (ppm) <u>0</u> TPH (ppm) <u>ND</u> Method <u>M8015</u> Other <u>BTEX \ SW846, 8020A (ND)</u>	
Distance to an Ephemeral Stream: (pts) <u>0</u>			
Distance to Nearest Lake, Playa, or Watering Pond: (pts) <u>0</u>			
Wellhead Protection Area: (pts) <u>0</u>			
Distance To Surface Water: (pts) <u>0</u>			
RANKING SCORE (TOTAL POINTS) <u>0</u>			
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF			
DATE: <u>8-22-97</u>		PRINTED NAME <u>JEFF CROSS</u>	
SIGNATURE <u>Jeff Cross</u>		TITLE <u>PROJECT MANAGER</u>	
AFTER REVIEW OF THE SOIL REMEDIATION INFORMATION. ON-SITE REMEDIATION IS APPROVED IN ACCORDANCE TO THE JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE.			
APPROVED: YES <u>X</u> NO <u> </u> (REASON) <u> </u>			
SIGNED: <u>Keith M. M...</u>		DATE: <u>9-2-97</u>	

APACHE CORPORATION/FARMINGTON DISTRICT SOIL REMEDIATIONS STATUS REPORT

REMEDIATION SITE APACHE # 145

* AMOUNT OF SOIL UNDERGOING REMEDIATION 163 Yds.

CELL No. <u>#1</u>	SampDATE <u>6/30/97</u>	TPH <u>1500</u>	BTEX <u>ND</u>
DIMENSIONS(LxWxH) <u>115' L X 30' W X 12" H</u>			
CELL LOCATION (dir. from well head) <u>NORTH</u>			
* DATE BEGAN: <u>8/17/95</u>			
DATE TERMINATED (TPH <5,000 ppm/BTEX< 50 ppm/Benzene < 10 ppm) <u>6/30/97</u>			
CELL No. <u>#2</u>	SampDATE <u>6/30/97</u>	TPH <u>ND</u>	BTEX <u>ND</u>
DIMENSIONS(LxWxH) <u>42' L X 15' W X 18" H</u>			
CELL LOCATION (dir. from well head) <u>SOUTH</u>			
* DATE BEGAN: <u>8/17/95</u>			
DATE TERMINATED (TPH <5,000 ppm/BTEX< 50 ppm/Benzene < 10 ppm) <u>6/30/97</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)			
REMEDIATION RECORD: (Date, Treatment, Tilling)			
5/27/97 TREAT CELLS WITH 46-0-0 FERTILIZER, WATER, TILL SOIL.			
6/26/97 TILLED CELLS.			
6/30/97 WATERED AND TILLED SOIL.			

From excavation reports.

WELL NAME:

Apache #145 Cell #2

SAMPLE DATE:

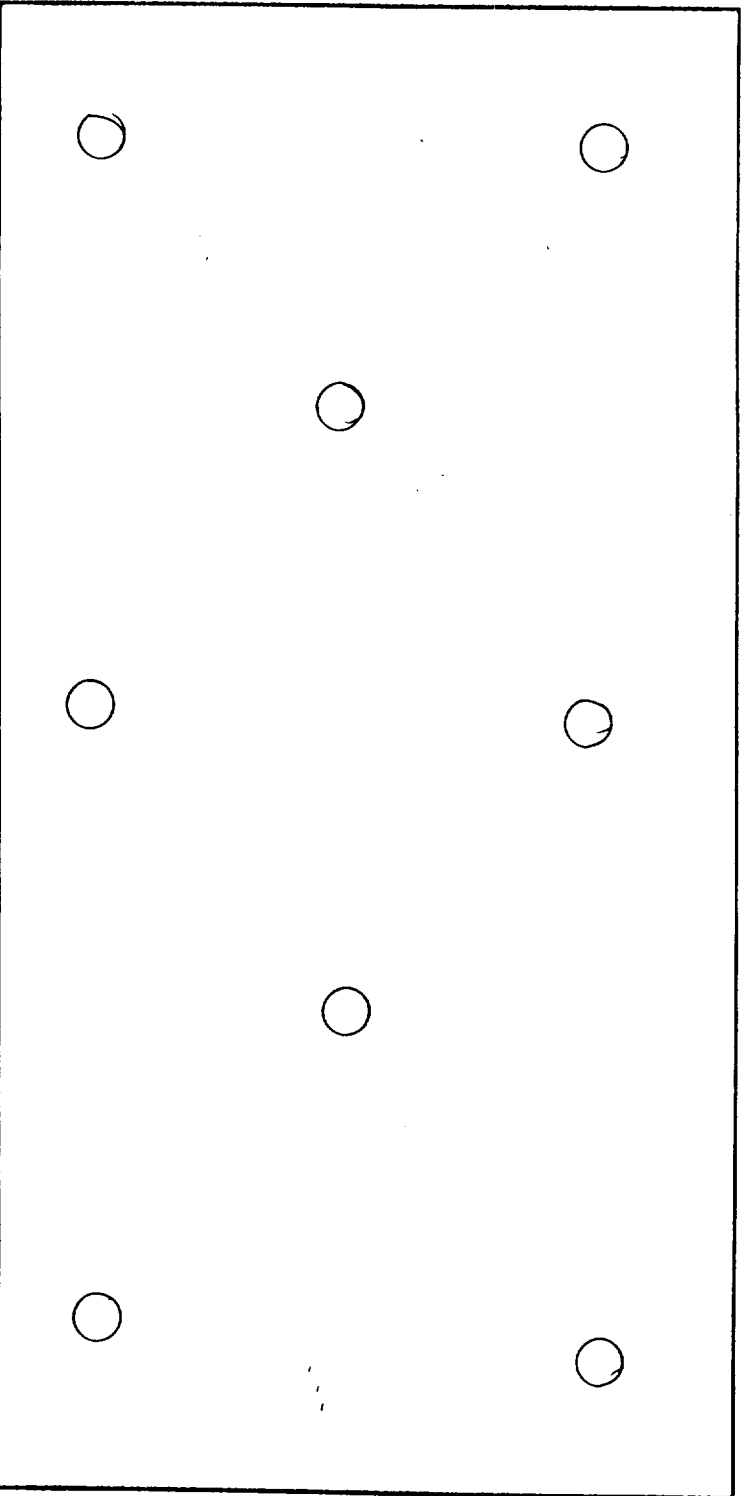
6-30-97

DIMENSIONS:

42' L X 15' W X 18" H



= SAMPLE AREA



NOTES:

ALL SAMPLES TAKEN 10" TO 12" INTO CELL

8 Point Composite Sample

PID Composite Reading 0.0 ppm.

WELL NAME:

Apache #145 cell #1

SAMPLE DATE:

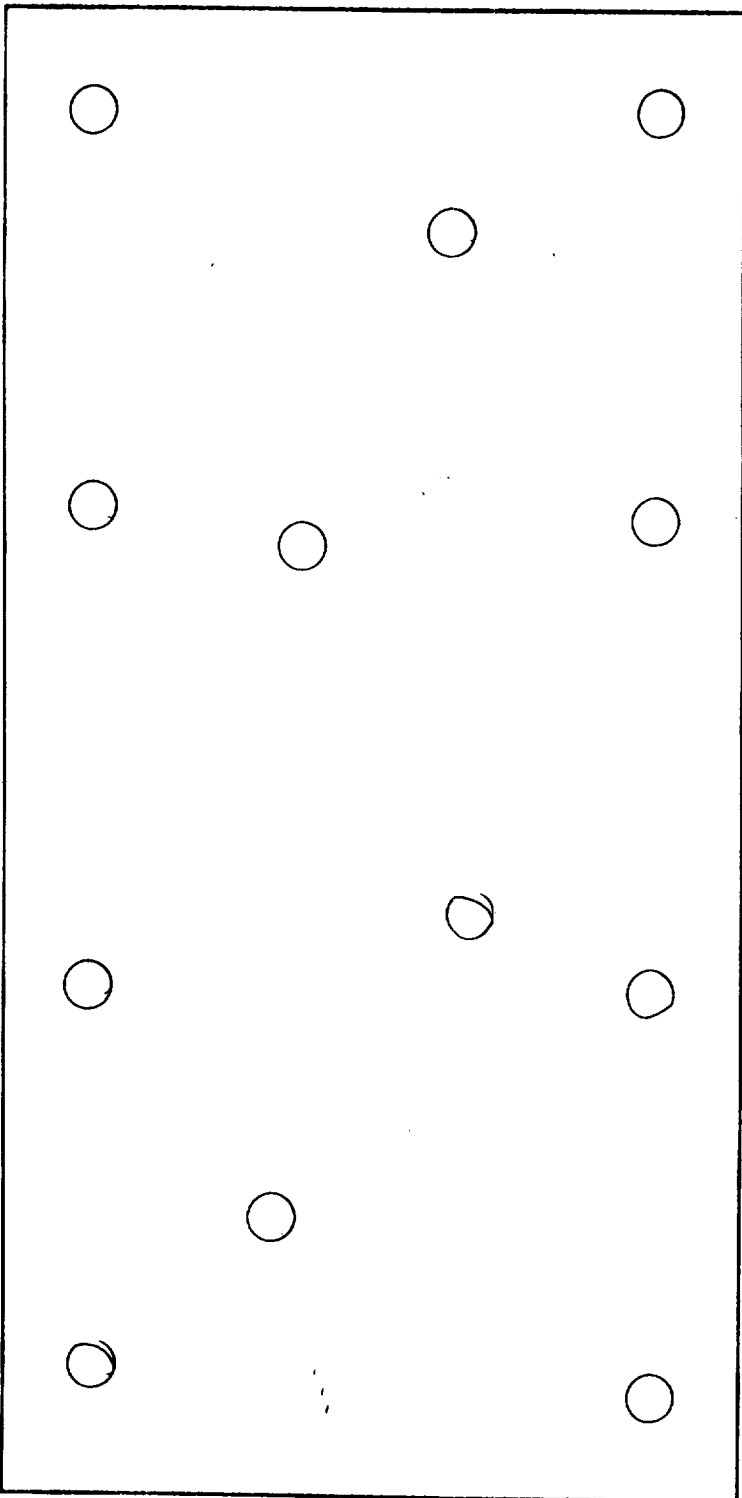
6-30-97

DIMENSIONS:

115' L X 30' W X 12" H



= SAMPLE AREA

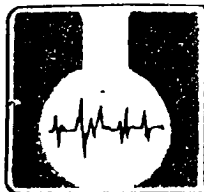


NOTES:

ALL SAMPLES TAKEN 10" TO 12" INTO CELL.

12 point composite sample

PFO composite Reading 0.0 ppm.



**ASSAIGAI
ANALYTICAL
LABORATORIES, INC.**

AUG 4 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 11, 1997 14:41

**CERTIFICATE OF ANALYSIS
RESULTS BY SAMPLE**

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

WORKORDER # : 9707035
WORK ID : JICARILLA PIT CLOSURES
CLIENT CODE : APA01
DATE RECEIVED : 07/04/97

ATTN: JEFF CROSS

Page: 1

Lab ID: 9707035-01A
Sample ID: APACHE #145 CELL #1

Collected: 06/30/97 11:10:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/kg	0.0050	100	07/07/97	SBTXME175
Toluene	ND	mg/kg	0.0050	100	07/07/97	SBTXME175
Ethylbenzene	ND	mg/kg	0.0050	100	07/07/97	SBTXME175
P-&m-Xylene	ND	mg/kg	0.010	100	07/07/97	SBTXME175
O-Xylene	ND	mg/kg	0.0050	100	07/07/97	SBTXME175

Lab ID: 9707035-01B
Sample ID: APACHE #145 CELL #1

Collected: 06/30/97 11:10:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
Diesel Range OG Soil/M8015						
Diesel Range OG in Soil	1500	mg/Kg	50	25	07/08/97	SDRO040

Lab ID: 9707035-02A
Sample ID: APACHE #145 CELL #2

Collected: 06/30/97 11:20:00
Matrix: SOIL

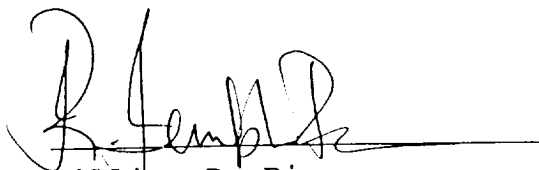
TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/kg	0.0050	100	07/07/97	SBTXME175
Toluene	ND	mg/kg	0.0050	100	07/07/97	SBTXME175
Ethylbenzene	ND	mg/kg	0.0050	100	07/07/97	SBTXME175
P-&m-Xylene	ND	mg/kg	0.010	100	07/07/97	SBTXME175
O-Xylene	ND	mg/kg	0.0050	100	07/07/97	SBTXME175



Lab ID: 9707035-02B
Sample ID: APACHE #145 CELL #2

Collected: 06/30/97 11:20:00
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	07/08/97	SDRO040


for William P. Biava
President

WORKORDER COMMENTS

DATE : 07/11/97

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

ASSAIGAI
ANALYTICAL
LABORATORIES

Lab job no.: 1000 Date 1-24-77

Page 1 of 1

MELQUIADES ALANIS

Project Manager / Contact ~~Jeff Cross~~

Telephone No. (505) 774-6643

Fax No. (505) 774-6624

Samplers: (Signature) Jeff Leun

[illegible]

Retinquired by: <u>Jeff Wom</u>		Date		Received by:		Retinquished by:	
Signature <u>JEFF WOM</u>		7/4/77		Signature <u>Wm. P. Biava</u>		Signature _____	
Printed _____				Printed _____		Printed _____	
Company <u>Apache Corp.</u>		Time		Company <u>ASSARCA</u>		Company _____	
Reason _____		11/1/6		Reason <u>Delivery</u>		Reason _____	

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

LABORATORY

[illegible]

A blank sheet of graph paper with a grid pattern. The grid consists of 10 columns and 10 rows of squares. There are no markings or text on the page.

[illegible]

	Reason
After analysis, samples are to be:	
☐ Disposed of (additional fee)	
☐ Stored (30 days max)	
☐ Stored over 30 days (additional fee)	
☐ Returned to customer	